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 3 OF 9

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

ADDITIONAL ENGINEERING INFORMATION

Containing

CHEMICAL ANALYSES
for
Marco Shores through Rosemont

FOR THE TEST YEAR ENDED
DECEMBER 31, 1991

DOCUMENT NUMBER-DATE
04744 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 3 OF 9

CHEMICAL ANALYSES

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CHEMICAL ANALYSES

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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

SUMM - 1

	(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	*	*	*

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.

	(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	6/90, 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

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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]
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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 Mountian	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

Marco Shores Utilities - 26002

Collier County (DUI)

Water

- 1992 FPSC Filing -

Marco 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	12/91
Organic	3/91
Volatile Organic Chemicals	1/91
	4/91
	7/91
	10/91
Turbidity	daily
Microbiological	12/91
Radionuclide	3/91
Secondary Contaminants	3/91
Unregulated Contaminants	2/90

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
100 Winward Dr.
Marco Isl,FL 33937

Date Reported: Feb20 1991
PO Number: Marco Shores
PO Number 26002
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jan31 1991 Lab Number : 16160

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16160
Turbidity	NTU	0.05	100	.000	0.5
Arsenic	mg/L	0.0005	102	1.01	<0.0005
Barium	mg/L	0.01	102	1.18	0.21
Cadmium	mg/L	0.001	101	.437	0.012
Chromium	mg/L	0.005	93.1	.796	0.01
Fluoride	mg/L	0.05	114	1.67	<0.05
Lead	mg/L	0.01	102	.172	0.04
Mercury	mg/L	0.0002	109	3.61	0.0029
Nitrate(as N)	mg/L	0.01	107	2.26	0.491
Selenium	mg/L	0.0005	98.1	2.53	<0.0005
Silver	mg/L	0.005	103	.173	<0.005
Sodium	mg/L	0.002	93.4	.371	81.01
Endrin	mg/L	0.000001	104	2.27	<0.000001
Lindane	mg/L	0.000001	91.6	5.08	<0.000001
Methoxychlor	mg/L	0.00001	97.2	2.56	<0.00001
Toxaphene	mg/L	0.0001	94.1	3.53	<0.0001
2,4-D	mg/L	0.00005	108	4.64	<0.00005
2,4,5-TP (Silvex)	mg/L	0.00002	92.8	4.34	<0.00002
Calcium	mg/L	0.1	102	.288	52.9
Chloride	mg/L	0.015	106	1.59	146
Carbonate_CaCO3	mg/L	0.1			47.8
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	97.9	1.98	0.02
Bicarbonate _CaCO3	mg/L	0.1			47.8
Carbonate_Alkalinity	mg/L	0.1			-
Hydrogen_Sulfide	mg/L	0.5	-	-	<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

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
100 Winward Dr.
Marco Isl,FL 33937

Date Reported: Feb20 1991
PO Number: Marco Shores
PO Number 26002
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jan31 1991 Lab Number : 16160

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16160
Iron	mg/L	0.01	106	.407	0.118
Magnesium	mg/L	0.01	106	1.52	9.9
Manganese	mg/L	0.005	102	1.80	<0.005
Sulfate	mg/L	0.5	92.6	-	82.2
Zinc	mg/L	0.001	104	2.18	0.026
Carbon_Dioxide	mg/L	0.1			17.3
Color	mg/L	5	-	16.1	20
Total_Hardness	mg/L	0.1			172.7
NCH_as_CaCO3	mg/L	0.1			125
Odor(TON)	TON	1	-	.000	<1
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	101	1.68	6.74
Alkalinity	mg/L	0.1	106	20.4	47.8
TDS	mg/L	2.5	102	1.13	446
Temperature	oC	1			-
Langelier_Index	LX	0.01			-1.36
Saturation_Index	pHs	0.01			8.01
Stability_Index	pH	0.01			9.46
Foaming_Agents	mg/L	0.1	102	.900	<0.1
Field Chlorine	mg/L	0.1			-
Gross alpha incl. Ra	pCi/L	1			3.4

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) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Marco Shores 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_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: HRS82139

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 16160
Sample Location (be specific): Head of Distribution
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Richard Winquist
Operator, 394-0842 / 394-3353

ANALYSIS INFORMATION
Extraction Date 2/12/91
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 2/20/91

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

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	16160	1	.500	EPA180.1	0.05	2/10/91

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	16160	0.05	<0.0005	EPA206.3	0.0005	2/12/91
1010	Barium	16160	1	.210	EPA208.1	0.01	2/12/91
1015	Cadmium	16160	0.01	.0120	EPA213.1	0.001	2/4/91
1020	Chromium	16160	0.05	.0100	EPA218.1	0.005	2/1/91
1025	Fluoride	16160	4	<0.005	EPA340.1	0.05	2/8/91
1030	Lead	16160	0.05	.0400	EPA239.1	0.01	2/10/91
1035	Mercury	16160	0.002	.00290	EPA245.1	0.0002	2/1/91
1040	Nitrate(as N)	16160	10	.491	EPA353.1	0.01	02-01-91
1045	Selenium	16160	0.01	<0.0005	EPA270.3	0.0005	2/12/91
1050	Silver	16160	0.05	<0.005	EPA272.1	0.005	2/6/91
1052	Sodium	16160	160	81.1	EPA273.1	0.002	2/8/91

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	16160	0.0002	<.000001	EPA508	.000001	2/12/91
2010	Lindane	16160	0.004	<.000001	EPA508	.000001	2/12/91
2015	Methoxychlor	16160	0.1	<0.00001	EPA508	0.00001	2/12/91
2020	Toxaphene	16160	0.005	<0.0001	EPA508	0.0001	2/12/91
2105	2,4-D	16160	0.1	<0.00005	EPA515	0.00005	2/13/91
2110	2,4,5-TP (Silvex)	16160	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	16160		52.9	EPA215.1	0.1	2/11/91
1017	Chloride	16160	250	146	EPA300.0	0.015	02-05-91
1019	Carbonate CaCO3	16160		47.8	SM314A	0.1	
1021	Hydroxide CaCO3	16160		0.0	SM406C	0.1	
1022	Copper	16160	1	.0200	EPA220.1	0.005	2/9/91
1023	Bicarbonate CaCO3	16160		47.8	SM406C	0.1	
1026	Carbonate Alkalinity	16160		0.0	SM406C	0.1	

1027	Hydrogen Sulfide	16160		<0.5	EPA376.1	0.5	2/15/91
1028	Iron	16160	0.3	.118	EPA236.1	0.01	2/1/91
1031	Magnesium	16160		9.90	EPA242.1	0.01	2/11/91
1032	Manganese	16160	0.05	<0.005	EPA243.1	0.005	2/6/91
1055	Sulfate	16160	250	82.2	EPA375.2	0.5	2/5/91
1095	Zinc	16160	5	.0260	EPA289.1	0.001	2/4/91
1901	Carbon Dioxide	16160		17.3	SM406C	0.1	
1905	Color	16160	15	20.0	EPA110.1	5	2/12/91
1915	Total Hardness	16160		172.7	SM314A	0.1	
1917	NCH as CaCO3	16160		125.0	SM314A	0.1	
1920	Odor(TON)	16160	3	<1	EPA140.1	1	2/12/91
1924	Field pH	16160	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	16160	6.5-8.5	6.74	EPA150.1	0.01	2.8.91
1927	Alkalinity	16160		47.8	EPA310.1	0.1	
1930	TDS	16160	500	446	EPA160.1	2.5	2/5/91
1996	Temperature	16160		-		1	
1997	Langelier Index	16160	-0.2:+0.2	-1.36	SM203	0.01	
1998	Saturation Index	16160		8.10	SM203	0.01	
1999	Stability Index	16160		9.46	SM203	0.01	
2909	Foaming Agents	16160	0.5	<0.1	EPA425.1	0.1	2/4/91
	Field Chlorine	16160		-		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	16160	5	3.4	EPA900	1	2/18/91

Comments:

ANALYTICAL & CONSULTING CHEMISTS
CHEMICAL LABORATORIES INCORPORATED

CHAIN OF CUSTODY RECORD

CLIENT	ADDRESS	PHONE
S.S.U	10 Windward Dr. Marco Island, 33937	1-813-394-3353

PROJECT NAME: Marco Shores area

REQUIRED: ☐ Urgent ☑ Routine

DATE: 1-30-91

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:
1	X									X										
1																		X		
1	X																X			
1											X									

Kit Relinquished:	Date: Time:	Kit Received:	Date: Time:

Parameters: 1- priority org: TB, radionuclides, 9 secondaries

Laboratory Number	Client Identification/Description
16160	Ph 7.8, TDS 340, Temp 24°C, D.O. 8.5.

		Date	Time
Sample Collection:	Richard L. Illingworth	1-30-91	3:00 PM
Transportation:	PAK Force	1-30-91	3:30 PM
Lab Acceptance:		1/31/91	11:35

Page _____ of _____

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

391 NEWBURYPORT
P.O. BOX 157-5??
ALTAMONTE SPRINGS
FLORIDA 32715-2597
BUS (407) 339-5834
FAX (407) 260-0110

DAILY BUSINESS FORMS - (407) 877-7332 ACTS 2:38

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

407
Ph. (813) 338-5984

PH 1-407-
339-5984

FLOWERS CHEMICAL LABORATORIES
ANALYTICAL & CONSULTING CHEMISTS

Flowers Chemical Laboratories (FCL)
Environmental Health Laboratory (EHL)
Request For Analytical Services

Originator Information

Name Ronald E. Weis Date Submitted 1-30-91

Title Superintendent Organization Southern States Utilities

Address 100 Winding Wand Dr. Marco Island, FL 33937 Telephone No. 1-813-394-3353

Required By ASAP (Date) Urgent _____ Routine ✓

Sample Information
Requested Analysis: Parameter(s): Primary Inorganics, Organics, Turbidity, Radionuclides and Secondary's

Sample Description(s)

Lab Num	Client ID
	Primary Inorganics, Organics,
	Turbidity, Radionuclides, and Secondary's,
	Field Parameters, PH 7.8, TDS 340
	Temp 24°C, D.O. 8.5

Custody Information	Name (Signature)	Date	Time
Sample Collection	Ronald E. Weis	1-30-91	3:00 PM
Transportation	PSK-Fore	1-30-91	3:30 PM
Lab Acceptance			

Note: Project Name, Marco Shores Utilities
Plant # 26002

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
PO Box 197
Marco Isl,FL 33937

Date Reported: Apr19 1991
PO Number: 22468
PO Number 5110182
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PLANT#26002
Date Received: Mar26 1991 Lab Number : 16533

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16533
Turbidity	NTU	0.05	100	.000	2
Arsenic	mg/L	0.0005	102	3.82	<0.0005
Barium	mg/L	0.01	101	.858	<0.01
Cadmium	mg/L	0.001	103	.170	<0.001
Chromium	mg/L	0.005	93.8	1.89	<0.005
Fluoride	mg/L	0.05	101	1.30	<0.05
Lead	mg/L	0.001	96.0	3.81	<0.001
Mercury	mg/L	0.0002	100	.000	<0.0002
Nitrate(as N)	mg/L	0.01	95.1	14.2	0.221
Selenium	mg/L	0.0005	105	7.30	<0.0005
Silver	mg/L	0.005	104	.509	<0.005
Sodium	mg/L	0.002	103	.516	1.7
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	109	13.0	<0.00001
Toxaphene	mg/L	0.0001	106	.935	<0.0001
2,4-D	mg/L	0.00005	107	.994	<0.00005
2,4,5-TP(Silvex)	mg/L	0.00002	111	2.22	<0.00002
Calcium	mg/L	0.1	106	.362	60.6
Chloride	mg/L	0.015	102	.049	102
Carbonate_CaCO3	mg/L	0.1			36.8
Hydroxide_CaCO3	mg/L	0.1			0.3
Copper	mg/L	0.005	101	1.43	<0.005
Bicarbonate _CaCO3	mg/L	0.1			34.5
Carbonate_Alkalinity	mg/L	0.1			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

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:
Marco Shores
PO Box 197
Marco Isl,FL 33937

Date Reported: Apr19 1991
PO Number: 22468
PO Number 5110182
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PLANT#26002
Date Received: Mar26 1991 Lab Number : 16533

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16533
Iron	mg/L	0.01	108	1.08	0.094
Magnesium	mg/L	0.01	108	.722	12.01
Manganese	mg/L	0.005	102	.630	0.074
Sulfate	mg/L	0.2	99.2	1.22	71.8
Zinc	mg/L	0.001	105	.876	0.003
Carbon_Dioxide	mg/L	0.1			0.1
Color	mg/L	5	-	.000	15
Total_Hardness	mg/L	0.1			201.01
NCH_as_CaCO3	mg/L	0.1			164.3
Odor(TON)	TON	1	-	.000	<1
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	100	1.00	8.8
Field Conductivity	umhos/c	0.01			-
Total Alkalinity	mg/L	0.1	99.4	.667	36.8
TDS	mg/L	2.5	95.3	3.77	483
Phenolphthalein Alk.	mg/L	0.1			-
Field Temp. (C)	oC	1			25
Langelier Index	LX	0.01			0.65
Saturation Index	pHs	0.01			8.15
Stability Index	pH	0.01			7.51
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

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: 5110182
Public Water System Name S.S.U. Marco 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): 3-22-91
Laboratory Sample Number 16533
Sample Location (be specific): 1365 MAINSAIL
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ronald Weis WTP
Superintendent PH# 1-813-394-3353

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 4/18/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

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

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	16533	1	2.00	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	16533	0.05	<0.0005	EPA206.3	0.0005	4/5/91
1010	Barium	16533	1	<0.1	EPA208.1	0.01	4/4/91
1015	Cadmium	16533	0.01	<0.001	EPA213.1	0.001	4/2/91
1020	Chromium	16533	0.05	<0.005	EPA218.1	0.005	4/2/91
1025	Fluoride	16533	4	.0370	EPA340.1	0.05	3/26/91
1030	Lead	16533	0.05	<0.001	EPA239.2	0.001	4/1/91
1035	Mercury	16533	0.002	<0.0002	EPA245.1	0.0002	3/28/91
1040	Nitrate(as N)	16533	10	.221	EPA353.1	0.01	04-03-91
1045	Selenium	16533	0.01	<0.0005	EPA270.3	0.0005	4/5/91
1050	Silver	16533	0.05	<0.005	EPA272.1	0.005	4/1/91
1052	Sodium	16533	160	1.70	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	16533	0.0002	<.000001	EPA508	.000001	4/1/91
2010	Lindane	16533	0.004	<.000001	EPA508	.000001	4/1/91
2015	Methoxychlor	16533	0.1	<0.00001	EPA508	0.00001	4/2/91
2020	Toxaphene	16533	0.005	<0.0001	EPA508	0.0001	4/1/91
2105	2,4-D	16533	0.1	<0.00005	EPA515	0.00005	4/2/91
2110	2,4,5-TP(Silvex)	16533	0.01	<0.00002	EPA515	0.00002	4/2/91

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	16533		60.6	EPA215.1	0.1	4/4/91
1017	Chloride	16533	250	102	EPA300.0	0.015	04-01-91
1019	Carbonate CaCO3	16533		36.8	SM314A	0.1	4/4/91
1021	Hydroxide CaCO3	16533		0.3	SM406C	0.1	4/4/91
1022	Copper	16533	1	<0.005	EPA220.1	0.005	4/3/91
1023	Bicarbonate CaCO3	16533		34.5	SM406C	0.1	4/4/91
1026	Carbonate Alkalinity	16533		2.0	SM406C	0.1	4/4/91

1027	Hydrogen Sulfide	16533			EPA376.1	0.5	
1028	Iron	16533	0.3	.0940	EPA236.1	0.01	3/27/91
1031	Magnesium	16533		12.1	EPA242.1	0.01	4/4/91
1032	Manganese	16533	0.05	.0740	EPA243.1	0.005	3/29/91
1055	Sulfate	16533	250	71.8	EPA300.0	0.200	3/28/91
1095	Zinc	16533	5	.00300	EPA289.1	0.001	4/3/91
1901	Carbon Dioxide	16533		0.1	SM406C	0.1	4/4/91
1905	Color	16533	15	15.0	EPA110.1	5	3/27/91
1915	Total Hardness	16533		201.1	SM314A	0.1	4/4/91
1917	NCH as CaCO3	16533		164.3	SM314A	0.1	4/4/91
1920	Odor(TON)	16533	3	<1	EPA140.1	1	3/27/91
1924	Field pH	16533	6.5-8.5		EPA150.1	0.01	
✓ 1925	Lab pH	16533	6.5-8.5	8.80	EPA150.1	0.01	4/1/91
1926	Field Conductivity	16533			-	0.01	
1927	Total Alkalinity	16533		36.8	EPA310.1	0.1	3/29/91
1930	TDS	16533	500	483	EPA160.1	2.5	4/1/91
1931	Phenolphthalein Alk.	16533			EPA310.1	0.1	
1996	Field Temp. (C)	16533		25	-		1 4/4/91
✓ 1997	Langelier Index	16533	-0.2:+0.2	0.65	SM203	0.01	4/4/91
1998	Saturation Index	16533		8.15	SM203	0.01	4/4/91
1999	Stability Index	16533		7.51	SM203	0.01	4/4/91
2909	Foaming Agents	16533	0.5	<0.1	EPA425.1	0.1	4/1/91
9996	Field DO	16533			-	0.1	
9997	Field Chlorine	16533			-	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	16533	5	<1	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: Marco Shores
Address: 100 Winward Dr.
Marco Island, FL. 33937
Phone: (813) 394-3353

FCL Client No.:
FCL Project Manager: Laurie Sebeck
FCL Lab Coordinator: Steve Welsh
Requested Due Date:
P.O. Number:
Project Name / No.: Marco Shores, 5110182
Contact: Ron

Sampled By (PRINT): Ronald Weis
Sample Signature: Ronald Weis
Date Sampled: 3-22-91

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST: Prim. Trash	Prim. Cust.	TO	Sec.	Cust
1	Plant # 210002			16533						✓	✓	✓	✓	✓
2														
3														
4														
5														
6														

CARRIER	BAILERS	SHIP DATES: OUT / DATE	RETURNED / DATE
UPS		3-15	

SPECIAL INSTRUCTIONS:
Field Parameters
pH 8.53 Temp. 24°C
Conductivity, 700 D.O, 8.6

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Stephen Nichols	3-15		/ Lab Coordinator	3/26	10:00
Ronald Weis	3-22-91	2:30PM			

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

0015

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83189
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/3
Date Received: Mar 6 1991 Lab Number : 16424

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16424
Arsenic	mg/L	0.0005			
Barium	mg/L	0.01			
Cadmium	mg/L	0.001	110	470	0.002
Chromium	mg/L	0.005			
Fluoride	mg/L	0.05			
Lead	mg/L	0.001			
Mercury	mg/L	0.0002	116	.000	<0.0002
Nitrate(as N)	mg/L	0.01			
Selenium	mg/L	0.0005			
Silver	mg/L	0.005			
Sodium	mg/L	0.002			
Calcium	mg/L	0.1	101	.261	63.9
Chloride	mg/L	0.015			

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) 260-0110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/4
Date Received: Mar 6 1991 Lab Number : 16425

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16425
Arsenic	mg/L	0.0005			-
Barium	mg/L	0.01			-
Cadmium	mg/L	0.001	110	.478	0.003
Chromium	mg/L	0.005			-
Fluoride	mg/L	0.05			-
Lead	mg/L	0.001			-
Mercury	mg/L	0.0002	116	.000	<0.0002
Nitrate(as N)	mg/L	0.01			-
Selenium	mg/L	0.0005			-
Silver	mg/L	0.005			-
Sodium	mg/L	0.002			-
Calcium	mg/L	0.1	101	.261	64.4
Chloride	mg/L	0.015			-

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
PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : ES3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/5
Date Received: Mar 6 1991 Lab Number : 16426

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16426
Arsenic	mg/L	0.0005			-
Barium	mg/L	0.01			-
Cadmium	mg/L	0.001	110	.478	0.002
Chromium	mg/L	0.005			-
Fluoride	mg/L	0.05			-
Lead	mg/L	0.001			-
Mercury	mg/L	0.0002	116	.000	<0.0002
Nitrate(as N)	mg/L	0.01			-
Selenium	mg/L	0.0005			-
Silver	mg/L	0.005			-
Sodium	mg/L	0.002			-
Calcium	mg/L	0.1	101	.261	64.2
Chloride	mg/L	0.015			-

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) 339-5954
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/3
Date Received: Mar 6 1991 - Lab Number : 16424

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16424
Carbonate_CaCO3	mg/L	0.1			22.7
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005			-
Bicarbonate _CaCO3	mg/L	0.1			22.6
Carbonate_Alkalinity	mg/L	0.1			-
Hydrogen_Sulfide	mg/L	0.5			-
Iron	mg/L	0.01			-
Magnesium	mg/L	0.01	103	1.92	6.5
Manganese	mg/L	0.005			-
Sulfate	mg/L	0.2			-
Zinc	mg/L	0.001			-
Carbon_Dioxide	mg/L	0.1			2.1
Color	mg/L	5	- .000		15

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.
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
PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/4
Date Received: Mar 6 1991 Lab Number : 16425

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16425
Carbonate_CaCO3	mg/L	0.1			21.4
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005			-
Bicarbonate _CaCO3	mg/L	0.1			21.3
Carbonate_Alkalinity	mg/L	0.1			0.1
Hydrogen_Sulfide	mg/L	0.5			-
Iron	mg/L	0.01			-
Magnesium	mg/L	0.01	103	1.92	6.55
Manganese	mg/L	0.005			-
Sulfate	mg/L	0.2			-
Zinc	mg/L	0.001			-
Carbon_Dioxide	mg/L	0.1			0.7
Color	mg/L	5	- .000		15

Data Release Authorization
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Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

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

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 197
MarcoIsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/5
Date Received: Mar 6 1991 Lab Number : 16426

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16426
Carbonate_CaCO3	mg/L	0.1			18.5
Hydroxide_CaCO3	mg/L	0.1			0.1
Copper	mg/L	0.005			-
Bicarbonate _CaCO3	mg/L	0.1			18.2
Carbonate_Alkalinity	mg/L	0.1			0.3
Hydrogen_Sulfide	mg/L	0.5			-
Iron	mg/L	0.01			-
Magnesium	mg/L	0.01	103	1.92	6.45
Manganese	mg/L	0.005			-
Sulfate	mg/L	0.2			-
Zinc	mg/L	0.001			-
Carbon_Dioxide	mg/L	0.1			0.2
Color	mg/L	5	- .000		15

Data Release Authorization
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Methods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

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Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
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FLORIDA 32715-0597
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CHEMICAL LABORATORIES INCORPORATED

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PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/3
Date Received: Mar 6 1991 Lab Number : 16424

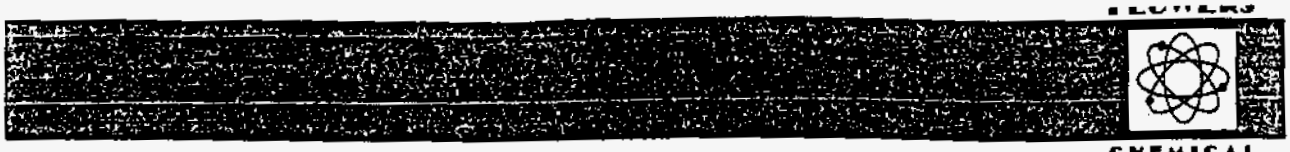
REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16424
Total_Hardness	mg/L	0.1			186.2
NCH_as_CaCO3	mg/L	0.1			163.5
Odor(TON)	TON	1			-
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	99.4	.054	7.22
Alkalinity	mg/L	0.1	97.7	.585	22.7
TDS	mg/L	2.5	98.6	2.01	474
Temperature	oC	1			25
Langelier_Index	LX	0.01			-1.02
Saturation_Index	pHs	0.01			8.34
Stability_Index	pH	0.01			9.36
Foaming_Agents	mg/L	0.1			-
Field Chlorine	mg/L	0.1			-

Data Release Authorization
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Jefferson S. Flowers, Ph.D.
Technical Director

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



CHEMICAL
LABORATORIES
INCORPORATED

Received From:
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MarcoIsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/4
Date Received: Mar 6 1991 Lab Number : 16425

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16425
Total_Hardness	mg/L	0.1			187.8
NCH_as_CaCO3	mg/L	0.1			166.3
Odor(TON)	TON	1			-
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	99.4	.054	7.82
Alkalinity	mg/L	0.1	97.7	.585	21.4
TDS	mg/L	2.5	98.6	2.01	471
Temperature	oC	1			25
Langelier_Index	LX	0.01			-0.55
Saturation_Index	pHs	0.01			8.36
Stability_Index	pH	0.01			8.91
Foaming_Agents	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. Rowers, Ph.D.
Jefferson S. Rowers, Ph.D.
461 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

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PO Box 197
Marcolsland,FL 33937

Date Reported: Mar12 1991
PO Number: 26002
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3/5
Date Received: Mar 6 1991 Lab Number : 16426

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16426
Total_Hardness	mg/L	0.1			186.9
NCH_as_CaCO3	mg/L	0.1			168.4
Odor(TON)	TON	1			-
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	99.4	.054	8.17
Alkalinity	mg/L	0.1	97.7	.585	18.5
TDS	mg/L	2.5	98.6	2.01	500
Temperature	oC	1			25
Langelier_Index	LX	0.01			-0.26
Saturation_Index	pHs	0.01			8.43
Stability_Index	pH	0.01			8.68
Foaming_Agents	mg/L	0.1			-
Field Chlorine	mg/L	0.1			-

Data Release Authorization
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Technical Director

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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: 5110182
Public Water System Name Marco Shores Utilities — P.O. Box 190, Marco Island, Collier, FL. 33937
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_X_; 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 16424
Sample Location (be specific): Head of Distribution
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well (X)Resample
( )Special_____
Sampler Name, Title Phone: R Mauguet
"6442" Operator, 394-3353

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 3/11/91

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

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	16424	0.05		EPA206.3	0.0005	
1010	Barium	16424	1		EPA208.1	0.01	
1015	Cadmium	16424	0.01	.00200	EPA213.1	0.001	3/7/91
1020	Chromium	16424	0.05		EPA218.1	0.005	
1025	Fluoride	16424	4		EPA340.1	0.05	
1030	Lead	16424	0.05		EPA239.2	0.001	
1035	Mercury	16424	0.002	<0.0002	EPA245.1	0.0002	3/11/91
1040	Nitrate(as N)	16424	10		EPA353.1	0.01	
1045	Selenium	16424	0.01		EPA270.3	0.0005	
1050	Silver	16424	0.05		EPA272.1	0.005	
1052	Sodium	16424	160		EPA273.1	0.002	

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	16424		63.9	EPA215.1	0.1	3/10/91
1017	Chloride	16424	250		EPA300.0	0.015	
1019	Carbonate_CaCO3	16424		22.7	SM314A	0.1	3/10/91
1021	Hydroxide_CaCO3	16424		0.0	SM406C	0.1	3/10/91
1022	Copper	16424	1		EPA220.1	0.005	
1023	Bicarbonate_CaCO3	16424		22.6	SM406C	0.1	3/10/91
1026	Carbonate_Alkalinity	16424		0.0	SM406C	0.1	3/10/91
1027	Hydrogen_Sulfide	16424			EPA376.1	0.5	
1028	Iron	16424	0.3		EPA236.1	0.01	
1031	Magnesium	16424		6.50	EPA242.1	0.01	3/10/91
1032	Manganese	16424	0.05		EPA243.1	0.005	
1055	Sulfate	16424	250		EPA300.0	0.200	
1095	Zinc	16424	5		EPA289.1	0.001	
1901	Carbon_Dioxide	16424		2.1	SM406C	0.1	3/10/91
1905	Color	16424	15	15.0	EPA110.1	5	3/11/91
1915	Total_Hardness	16424		186.2	SM314A	0.1	3/10/91
1917	NCH_as_CaCO3	16424		163.5	SM314A	0.1	3/10/91
1920	Odor(TON)	16424	3		EPA140.1	1	
1924	Field_pH	16424	6.5-8.5		EPA150.1	0.01	
1925	Lab_pH	16424	6.5-8.5	7.32	EPA150.1	0.01	3/8/91
1927	Alkalinity	16424		22.7	EPA310.1	0.1	3/8/91
1930	TDS	16424	500	474	EPA160.1	2.5	3/8/91
1996	Temperature	16424		25 -			1 3/10/91
1997	Langelier_Index	16424	-0.2:+0.2	-1.02	SM203	0.01	3/10/91
1998	Saturation_Index	16424		8.34	SM203	0.01	3/10/91
1999	Stability_Index	16424		9.36	SM203	0.01	3/10/91
2909	Foaming_Agents	16424	0.5		EPA425.1	0.1	
	Field_Chlorine	16424			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Marco Shores Utilities, P.O. Box 197, Marco Island, Collier, FL. 33937
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_X_; 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 16425
Sample Location (be specific): Head of Distribution
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well (X)Resample
( )Special_____
Sampler Name, Title Phone: R. WINQUIST
K6442 Operator 394-3353

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 3/11/91

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

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	16425	0.05		EPA206.3	0.0005	
1010	Barium	16425	1		EPA208.1	0.01	
1015	Cadmium	16425	0.01	.00300	EPA213.1	0.001	3/7/91
1020	Chromium	16425	0.05		EPA218.1	0.005	
1025	Fluoride	16425	4		EPA340.1	0.05	
1030	Lead	16425	0.05		EPA239.2	0.001	
1035	Mercury	16425	0.002	<0.0002	EPA245.1	0.0002	3/11/91
1040	Nitrate(as N)	16425	10		EPA353.1	0.01	
1045	Selenium	16425	0.01		EPA270.3	0.0005	
1050	Silver	16425	0.05		EPA272.1	0.005	
1052	Sodium	16425	160		EPA273.1	0.002	

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	16425		64.4	EPA215.1	0.1	3/10/91
1017	Chloride	16425	250		EPA300.0	0.015	
1019	Carbonate CaCO3	16425		21.4	SM314A	0.1	3/10/91
1021	Hydroxide CaCO3	16425		0.0	SM406C	0.1	3/10/91
1022	Copper	16425	1		EPA220.1	0.005	
1023	Bicarbonate CaCO3	16425		21.3	SM406C	0.1	3/10/91
1026	Carbonate Alkalinity	16425		0.1	SM406C	0.1	3/10/91
1027	Hydrogen Sulfide	16425			EPA376.1	0.5	
1028	Iron	16425	0.3		EPA236.1	0.01	
1031	Magnesium	16425		6.55	EPA242.1	0.01	3/10/91
1032	Manganese	16425	0.05		EPA243.1	0.005	
1055	Sulfate	16425	250		EPA300.0	0.200	
1095	Zinc	16425	5		EPA289.1	0.001	
1901	Carbon Dioxide	16425		0.7	SM406C	0.1	3/10/91
1905	Color	16425	15	15.0	EPA110.1	5	3/11/91
1915	Total Hardness	16425		187.8	SM314A	0.1	3/10/91
1917	NCH as CaCO3	16425		166.3	SM314A	0.1	3/10/91
1920	Odor(TON)	16425	3		EPA140.1	1	
1924	Field pH	16425	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	16425	6.5-8.5	7.82	EPA150.1	0.01	3/8/91
1927	Alkalinity	16425		21.4	EPA310.1	0.1	3/8/91
1930	TDS	16425	500	471	EPA160.1	2.5	3/8/91
1996	Temperature	16425		25	-	1	3/10/91
1997	Langelier Index	16425	-0.2:+0.2	-0.55	SM203	0.01	3/10/91
1998	Saturation Index	16425		8.36	SM203	0.01	3/10/91
1999	Stability Index	16425		8.91	SM203	0.01	3/10/91
2909	Foaming Agents	16425	0.5		EPA425.1	0.1	
	Field Chlorine	16425			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name: Marco Shores Utilities, P.O. Box 197, Marco Island, Collier, FL 33937
Public Water System Type (check one):
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LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: HRS 83139
Parameter Group(s) Analyzed: Turbidity___;Inorganic_X_; 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 16426
Sample Location (be specific): Head of Distribution
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well (X)Resample
( )Special___
Sampler Name, Title Phone: R. WINOVICH
"6442" Operator, 394-3353

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 3/11/91

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

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	16426	0.05		EPA206.3	0.0005	
1010	Barium	16426	1		EPA208.1	0.01	
1015	Cadmium	16426	0.01	.00200	EPA213.1	0.001	3/7/91
1020	Chromium	16426	0.05		EPA218.1	0.005	
1025	Fluoride	16426	4		EPA340.1	0.05	
1030	Lead	16426	0.05		EPA239.2	0.001	
1035	Mercury	16426	0.002	<0.0002	EPA245.1	0.0002	3/11/91
1040	Nitrate(as N)	16426	10		EPA353.1	0.01	
1045	Selenium	16426	0.01		EPA270.3	0.0005	
1050	Silver	16426	0.05		EPA272.1	0.005	
1052	Sodium	16426	160		EPA273.1	0.002	

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	16426		64.2	EPA215.1	0.1	3/10/91
1017	Chloride	16426	250		EPA300.0	0.015	
1019	Carbonate CaCO3	16426		18.5	SM314A	0.1	3/10/91
1021	Hydroxide CaCO3	16426		0.1	SM406C	0.1	3/10/91
1022	Copper	16426	1		EPA220.1	0.005	
1023	Bicarbonate CaCO3	16426		18.2	SM406C	0.1	3/10/91
1026	Carbonate Alkalinity	16426		0.3	SM406C	0.1	3/10/91
1027	Hydrogen Sulfide	16426			EPA376.1	0.5	
1028	Iron	16426	0.3		EPA236.1	0.01	
1031	Magnesium	16426		6.45	EPA242.1	0.01	3/10/91
1032	Manganese	16426	0.05		EPA243.1	0.005	
1055	Sulfate	16426	250		EPA300.0	0.200	
1095	Zinc	16426	5		EPA289.1	0.001	
1901	Carbon Dioxide	16426		0.2	SM406C	0.1	3/10/91
1905	Color	16426	15	15.0	EPA110.1	5	3/11/91
1915	Total Hardness	16426		186.9	SM314A	0.1	3/10/91
1917	NCH as CaCO3	16426		168.4	SM314A	0.1	3/10/91
1920	Odor(TON)	16426	3		EPA140.1	1	
1924	Field pH	16426	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	16426	6.5-8.5	8.17	EPA150.1	0.01	3/8/91
1927	Alkalinity	16426		18.5	EPA310.1	0.1	3/8/91
1930	TDS	16426	500	500	EPA160.1	2.5	3/8/91
1996	Temperature	16426		25			3/10/91
1997	Langelier Index	16426	-0.2:+0.2	-0.26	SM203	0.01	3/10/91
1998	Saturation Index	16426		8.43	SM203	0.01	3/10/91
1999	Stability Index	16426		8.68	SM203	0.01	3/10/91
2909	Foaming Agents	16426	0.5		EPA425.1	0.1	
	Field Chlorine	16426				0.1	

Comments:

R.P.I.F.
PO Box 197
Marco Island 33937

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD

CHEMICAL LABORATORIES INCORPORATED

CLIENT SSU	ADDRESS 100 Winterset Dr Marco Isl FL 33937	PHONE
~~PROJECT~~ NAME: Plant 26002	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:
3	X									X										
3										X										

Kit Relinquished: [signature] Date: Time: Kit Received: Date: Time:

Parameters: C3 Hg Col LX

Laboratory Number	Client Identification/Description
3-3-91 16424	Field Parameters: PH. 8.42 D.O. 8.60, Temp 24°C, Conductivity 660
3-4-91 16425	PH 8.51 D.O 8.6, Temp 24°C, Conductivity 660,
3-5-91 16426	PH. 8.56 D.O. 8.6 Temp 24°C Conductivity 660

		Date	Time
Sample Collection:	[signature]	3-5-91	1.30 PM
Transportation:	FAX- Fare	3-5-91	2:00 PM
Lab Acceptance:	[signature]	3/6/91	1:30

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

DAILY BUSINESS FORMS - (407) 277-7321 ACTS 2:21

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
100 Winward Dr.
Marco Isl,FL 33937

Date Reported: Feb12 1991
PO Number: 26002

PO Number -
FDHRS Lab# : 83139
FDER Lab# : ES3018
NCOEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Jan31 1991 Lab Number : 16161

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16161
Ethylene dibromide	mg/L	0.000005	110	2.07	<0.000005
Para-dichlorobenzene	mg/L	0.001	105	14.9	<0.001
Vinyl chloride	mg/L	0.001	88.8	2.57	<0.001
1,1-dichloroethene	mg/L	0.001	88.8	2.57	<0.001
1,2-dichloroethane	mg/L	0.001	101	5.83	<0.001
~~1,1,1-trichloroethane~~	~~mg/L~~	~~0.001~~	~~95.8~~	~~.254~~	~~<0.001~~
Carbon tetrachloride	mg/L	0.001	94.8	2.43	<0.001
Trichloroethene	mg/L	0.001	98.3	4.91	<0.001
Tetrachloroethene	mg/L	0.001	97.3	8.14	<0.001
Benzene	mg/L	0.001	99.4	1.88	<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 aproved methodology.

Jefferson S. Powers, Ph.D.
Technical Director

Page 1 of 1

Jefferson L. Powers, Ph.D.
Jefferson S. Powers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORICA 32715-0597
BUS (407) 339-5624
FAX (407) 260-6170

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	16161	.00002	<0.000005	EPA504.1	.000005	2/8/91
2969	Para-dichlorobenzene	16161	.075	<0.001	EPA502.2	0.001	2/9/91
2976	Vinyl chloride	16161	0.001	<0.001	EPA502.2	0.001	2/9/91
2977	1,1-dichloroethene	16161	0.007	<0.001	EPA502.2	0.001	2/9/91
2980	1,2-dichloroethane	16161	0.003	<0.001	EPA502.2	0.001	2/9/91
2981	1,1,1-trichloroethane	16161	0.2	<0.001	EPA502.2	0.001	2/9/91
2982	Carbon tetrachloride	16161	0.003	<0.001	EPA502.2	0.001	2/9/91
2984	Trichloroethene	16161	0.003	<0.001	EPA502.2	0.001	2/9/91
2987	Tetrachloroethene	16161	0.003	<0.001	EPA502.2	0.001	2/9/91
2990	Benzene	16161	0.001	<0.001	EPA502.2	0.001	2/9/91

Comments:

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Marco Shores Utilities – P.O. Box 197 Marco Island, Collier, FL 33937
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): 1-30-91 8:30 AM
Laboratory Sample Number 16161
Sample Location (be specific): Head of Distribution System
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Marc A. Larson "S" 5970 . Operator
(813) 394-3353
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: [signature]

Name Dr. Jefferson S Flowers

Title Technical Director

Laboratory Flowers Chemical Laboratories,Inc.

Date 2/12/91

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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
100 Windward Dr.
Marco Isl,FL 33937

Date Reported: Apr15 1991
PO Number: 26001/26002
PO Number SSU
FDHRS Lab# : 93139
FDER Lab# : ES3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

Apr 3 1991 Lab Number : 16597

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16597
Ethylene dibromide	mg/L	0.000005	95.4	5.11	<0.000005
Para-dichlorobenzene	mg/L	0.001	96.9	11.9	<0.001
Vinyl chloride	mg/L	0.001	95.8	2.41	<0.001
1,1-dichloroethene	mg/L	0.001	95.9	2.61	<0.001
1,2-dichloroethane	mg/L	0.001	90.3	1.41	<0.001
1,1,1-trich ethan	mg/L	0.001	93.1	1.08	<0.001
Carbon tetrachloride	mg/L	0.001	89.1	3.08	<0.001
Trichloroethene	mg/L	0.001	93.1	1.81	<0.001
Tetrach oroethene	mg/L	0.001	87.9	4.91	<0.001
Benzene	mg/L	0.001	89.0	1.92	<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. [illegible], Ph.D.
Technical Director

Page 2 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

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Marco Shores UTILITIES - 300 MAINSAIL Dr. NAPLES, FL 3396. Collier 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___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Number (if any):

SAMPLE INFORMATION
Sample Date (MMDDYY): 4-2-91
Laboratory Sample Number 16595
Sample Location (be specific): Head of Distribution
Sample Type (check all applicable):

( )Check	( )Regular Distribution	( )Composit
( )Clearance	( )Maximum Residence Time	(X)Plant Tap
( )Raw	( )Well	( )Resample
( )Special_____		

Sampler Name, Title Phone: Richard Winquist
WTP Operator "C" 6442 1-813-394-3353

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	16596	.00002	<.000005	EPA504.1	.000005	4/12/91
2969	Para-dichlorobenzene	16596	.075	<0.001	EPA502.2	0.001	4/7/91
2976	Vinyl chloride	16596	0.001	<0.001	EPA502.2	0.001	4/7/91
2977	1,1-dichloroethene	16596	0.007	<0.001	EPA502.2	0.001	4/7/91
2980	1,2-dichloroethane	16596	0.003	<0.001	EPA502.2	0.001	4/7/91
2981	1,1,1-trichloroethane	16596	0.2	<0.001	EPA502.2	0.001	4/7/91
2982	Carbon tetrachloride	16596	0.003	<0.001	EPA502.2	0.001	4/7/91
2984	Trichloroethene	16596	0.003	<0.001	EPA502.2	0.001	4/7/91
2987	Tetrachloroethene	16596	0.003	<0.001	EPA502.2	0.001	4/7/91
2990	Benzene	16596	0.001	<0.001	EPA502.2	0.001	4/7/91

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Island
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Jul22 1991
PO Number: on file
PO Number 26002
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PDE 1A
Date Received: Jul11 1991 Lab Number : 17317

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17317
Ethylene dibromide	mg/L	0.000005	94.3	3.35	<0.000005
Para-dichlorobenzene	mg/L	0.001	102	.772	<0.001
Vinyl chloride	mg/L	0.001	114	1.54	<0.001
1,1-dichloroethene	mg/L	0.001	114	1.54	<0.001
1,2-dichloroethane	mg/L	0.001	107	.092	<0.001
1,1,1-trichloroethan	mg/L	0.001	106	.502	<0.001
Carbon tetrachloride	mg/L	0.001	104	.118	<0.001
Trichloroethene	mg/L	0.001	104	.802	<0.001
Tetrachloroethene	mg/L	0.001	99.5	1.31	<0.001
Benzene	mg/L	0.001	107	2.56	<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 NEALBOYNTON
P.O. BOX 150197
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Island
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Jul22 1991
PO Number: on file
PO Number 26002
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: POE 2A
Date Received: Jul11 1991 Lab Number : 17318

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17318
Ethylene dibromide	mg/L	0.000005	94.3	3.35	<0.000005
Para-dichlorobenzene	mg/L	0.001	102	.772	<0.001
Vinyl chloride	mg/L	0.001	114	1.54	<0.001
1,1-dichloroethene	mg/L	0.001	114	1.54	<0.001
1,2-dichloroethane	mg/L	0.001	107	.092	<0.001
1,1,1-trichloroethan	mg/L	0.001	106	.502	<0.001
Carbon tetrachloride	mg/L	0.001	104	.118	<0.001
Trichloroethene	mg/L	0.001	104	.802	<0.001
Tetrachloroethene	mg/L	0.001	99.5	1.31	<0.001
Benzene	mg/L	0.001	107	2.56	<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 NEWBERRYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Island
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Jul22 1991
PO Number: on file
PO Number 26002
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: POE GA
Date Received: Jul11 1991 Lab Number : 17319

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17319
Ethylene dibromide	mg/L	0.000005	94.3	3.35	<0.000005
Para-dichlorobenzene	mg/L	0.001	102	.772	<0.001
Vinyl chloride	mg/L	0.001	114	1.54	<0.001
1,1-dichloroethene	mg/L	0.001	114	1.54	<0.001
1,2-dichloroethane	mg/L	0.001	107	.092	<0.001
1,1,1-trichloroethan	mg/L	0.001	106	.502	<0.001
Carbon tetrachloride	mg/L	0.001	104	.118	<0.001
Trichloroethene	mg/L	0.001	104	.802	<0.001
Tetrachloroethene	mg/L	0.001	99.5	1.31	<0.001
Benzene	mg/L	0.001	107	2.56	<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 160-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6110

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: MARCO ISLAND
Address: 100 WINNARD DRIVE
MARCO ISLAND, FL. 33937
Phone: (813)
Sampled By (PRINT):
Sampler Signature: Date Sampled:

FCL Client No.: M003
FCL Project Manager: L. SEBECK
FCL Lab Coordinator: S. WELSH
Requested Due Date:

P.O. Number:
Project Name / No.: 210002.
Contact:

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST: VOA
1	P.O.E. #1A			17317						
2				17318						
3				17319						
4										
5										
6										

CARRIER	BAILERS	SHIP DATES: OUT / DATE	SHIP DATES: RETURNED / DATE
UPS		7/5/11	

SPECIAL INSTRUCTIONS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FCL	7/5/11	2:48pm	Harry	7/11	2:38

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

0041

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name SSU Services Marco Shores 300 Mainsail Dr Naples, FL 33962
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): 7-8-91
Laboratory Sample Number 17317
Sample Location (be specific): POINT OF ENTRY
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: DANIEL CHAPMAN "E" CO6691 OPERATOR (813) 394-0842

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 7/19/91

Mail Results to the Appropriate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

PWSA.01 Sample Interpretation (check one):
Effective 05/01/8 () 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	17317	.00002	<.000005	EPA504.1	.000005	7/19/91
2969	Para-dichlorobenzene	17317	.075	<0.001	EPA502.2	0.001	7/12/91
2976	Vinyl chloride	17317	0.001	<0.001	EPA502.2	0.001	7/12/91
2977	1,1-dichloroethene	17317	0.007	<0.001	EPA502.2	0.001	7/12/91
2980	1,2-dichloroethane	17317	0.003	<0.001	EPA502.2	0.001	7/12/91
2981	1,1,1-trichloroethane	17317	0.2	<0.001	EPA502.2	0.001	7/12/91
2982	Carbon tetrachloride	17317	0.003	<0.001	EPA502.2	0.001	7/12/91
2984	Trichloroethene	17317	0.003	<0.001	EPA502.2	0.001	7/12/91
2987	Tetrachloroethene	17317	0.003	<0.001	EPA502.2	0.001	7/12/91
2990	Benzene	17317	0.001	<0.001	EPA502.2	0.001	7/12/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 7110182
Public Water System Name SSU Services Marco Shores 300 Mainsail Dr Naples, FL 33962
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): 7-9-91
Laboratory Sample Number 17318
Sample Location (be specific): Point of Entry
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: David Chapman "C" 006691 operator (813) 374-0842

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 7/19/91

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	17318	.00002	<.000005	EPA504.1	.000005	7/19/91
2969	Para-dichlorobenzene	17318	.075	<0.001	EPA502.2	0.001	7/12/91
2976	Vinyl chloride	17318	0.001	<0.001	EPA502.2	0.001	7/12/91
2977	1,1-dichloroethene	17318	0.007	<0.001	EPA502.2	0.001	7/12/91
2980	1,2-dichloroethane	17318	0.003	<0.001	EPA502.2	0.001	7/12/91
2981	1,1,1-trichloroethane	17318	0.2	<0.001	EPA502.2	0.001	7/12/91
2982	Carbon tetrachloride	17318	0.003	<0.001	EPA502.2	0.001	7/12/91
2984	Trichloroethene	17318	0.003	<0.001	EPA502.2	0.001	7/12/91
2987	Tetrachloroethene	17318	0.003	<0.001	EPA502.2	0.001	7/12/91
2990	Benzene	17318	0.001	<0.001	EPA502.2	0.001	7/12/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name SSU Services (Marco Shores 300 Mainsail Dr Naples, FL 33962
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): 7-10-91
Laboratory Sample Number 17319
Sample Location (be specific): Point of Entry
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Daniel Chapman "C" cc6691 OPerator (813) 394-0842

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 7/19/91

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	17319	.00002	<.000005	EPA504.1	.000005	7/19/91
2969	Para-dichlorobenzene	17319	.075	<0.001	EPA502.2	0.001	7/12/91
2976	Vinyl chloride	17319	0.001	<0.001	EPA502.2	0.001	7/12/91
2977	1,1-dichloroethene	17319	0.007	<0.001	EPA502.2	0.001	7/12/91
2980	1,2-dichloroethane	17319	0.003	<0.001	EPA502.2	0.001	7/12/91
2981	1,1,1-trichloroethane	17319	0.2	<0.001	EPA502.2	0.001	7/12/91
2982	Carbon tetrachloride	17319	0.003	<0.001	EPA502.2	0.001	7/12/91
2984	Trichloroethene	17319	0.003	<0.001	EPA502.2	0.001	7/12/91
2987	Tetrachloroethene	17319	0.003	<0.001	EPA502.2	0.001	7/12/91
2990	Benzene	17319	0.001	<0.001	EPA502.2	0.001	7/12/91

Comments:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Oct 9 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: POE TO DIST.
Date Received: Oct 4 1991
Lab Number : 17919

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17919
Ethylene dibromide	mg/L	0.000005	102	1.60	<0.000005
Para-dichlorobenzene	mg/L	0.001	98.8	4.75	<0.001
Vinyl chloride	mg/L	0.001	107	3.86	<0.001
1,1-dichloroethene	mg/L	0.001	107	3.86	<0.001
1,2-dichloroethane	mg/L	0.001	91.8	4.22	<0.001
1,1,1-trichloroethan	mg/L	0.001	97.7	6.58	<0.001
Carbon tetrachloride	mg/L	0.001	99.6	7.58	<0.001
Trichloroethene	mg/L	0.001	93.7	1.07	<0.001
Tetrachloroethene	mg/L	0.001	96.9	5.96	<0.001
Benzene	mg/L	0.001	96.8	.393	<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.
FLORIDA 32715-0592
BUS (407) 339-5956
Fax (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name: Marco Shores Utilities, 300 Mainsail Dr. Collier Co., Naples, FL 33940
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): 10-3-91
Laboratory Sample Number 17919
Sample Location (be specific): Point of Entry
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special
Sampler Name, Title Phone: Daniel Chapman, "C" 00691, Operator
(813)-394-3353

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 10/8/91

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	17919	.00002	<.000005	EPA504.1	.000005	10/8/91
2969	Para-dichlorobenzene	17919	.075	<0.001	EPA502.2	0.001	10/4/91
2976	Vinyl chloride	17919	0.001	<0.001	EPA502.2	0.001	10/4/91
2977	1,1-dichloroethene	17919	0.007	<0.001	EPA502.2	0.001	10/4/91
2980	1,2-dichloroethane	17919	0.003	<0.001	EPA502.2	0.001	10/4/91
2981	1,1,1-trichloroethane	17919	0.2	<0.001	EPA502.2	0.001	10/4/91
2982	Carbon tetrachloride	17919	0.003	<0.001	EPA502.2	0.001	10/4/91
2984	Trichloroethene	17919	0.003	<0.001	EPA502.2	0.001	10/4/91
2987	Tetrachloroethene	17919	0.003	<0.001	EPA502.2	0.001	10/4/91
2990	Benzene	17919	0.001	<0.001	EPA502.2	0.001	10/4/91

Comments:

CHEMIC LABORATORY INCORPORATED

FDER Lab# E82018
FDHRS Lab# 85139
NCDEHNR Lab# 234
SCDHEC Lab# 99019

Attn Ron #68A

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

(1) Client	(2) Address	(3) Phone
Southern States Util	100 Winward Drive Marco Island FL. 33937	(813)394-3353

(4) Public Drinking Water ID # 5110183 & 5110182 (5) Public Water System Name: Marco Island Utilities & Marco Island Utilities

(6) Project # 26001 & 26002 (8) Public Water System Type

MPC#

M 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)	2	6									X					

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

Collector: Daniel Chapman
Operator "C" 006691
Telephone (813) 394-3353

(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
17918	#1 Marco Island Utilities Plant 26001
	#2 Sampled at Point of Entry to Distribution
	#3 System
17919	#4 Marco Shores Utilities
	#5 Plant 26002 Sampled at Point of Entry
	#6 To Distribution System
	#7
	#8
	#9
	#10

		Date	Time
(13) Collectors Signature:	Daniel Chapman	10-2-91	12:00 NOON
(14) Transporters Signature:		10/2/91	
(15) Lab Acceptance By:			1110

Over for numbered instructions.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
100 Windward Dr.
Marco Isl,FL 33937

Date Reported: May22 1991
PO Number: 26002
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: DAY 1
Date Received: May10 1991 Lab Number : 16889

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16889
Turbidity	NTU	0.05	95	0.00	0.29
Calcium	mg/L	0.1	99.5	.850	48.8
Magnesium	mg/L	0.01	105	.158	11.8
TDS	mg/L	2.5	92.9	1.95	446
Total_Hardness	mg/L	0.1			170.4
Carbonate_CaCO3	mg/L	0.1			29
NCH_as_CaCO3	mg/L	0.1			141.4
Alkalinity	mg/L	0.1	101	.884	29
Bicarbonate _CaCO3	mg/L	0.1			28.9
Carbonate_Alkalinity	mg/L	0.1			-
Hydroxide_CaCO3	mg/L	0.1			-
Carbon_Dioxide	mg/L	0.1			7.3
Stability_Index	pH	0.01			9.81
Lab_pH	pH	0.01	100	.119	6.9
Saturation_Index	pHs	0.01			8.35
Langelier_Index	LX	0.01			-1.45

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:
Marco Shores
100 Windward Dr.
Marco Isl,FL 33937

Date Reported: May22 1991
PO Number: 26002
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: DAY 2
Date Received: May10 1991 Lab Number : 16890

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16890
Turbidity	NTU	0.05	95	0.00	0.31
Calcium	mg/L	0.1	99.5	.850	47.6
Magnesium	mg/L	0.01	105	.158	11.7
TDS	mg/L	2.5	92.9	1.95	451
Total_Hardness	mg/L	0.1			166.9
Carbonate_CaCO3	mg/L	0.1			29.6
NCH_as_CaCO3	mg/L	0.1			137.4
Alkalinity	mg/L	0.1	101	.884	29.6
Bicarbonate _CaCO3	mg/L	0.1			29.5
Carbonate_Alkalinity	mg/L	0.1			-
Hydroxide_CaCO3	mg/L	0.1			-
Carbon_Dioxide	mg/L	0.1			7
Stability_Index	pH	0.01			9.78
Lab_pH	pH	0.01	100	.119	6.93
Saturation_Index	pHs	0.01			8.35
Langelier_Index	LX	0.01			-1.43

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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
100 Windward Dr.
Marco Isl,FL 33937

Date Reported: May22 1991
PO Number: 26002
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: DAY 3
Date Received: May10 1991 Lab Number : 16891

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16891
Turbidity	NTU	0.05	95	0.00	0.46
Calcium	mg/L	0.1	99.5	.850	46.7
Magnesium	mg/L	0.01	105	.158	11.7
TDS	mg/L	2.5	92.9	1.95	454
Total_Hardness	mg/L	0.1			164.5
Carbonate_CaCO3	mg/L	0.1			28.4
NCH_as_CaCO3	mg/L	0.1			136.01
Alkalinity	mg/L	0.1	101	.884	28.4
Bicarbonate _CaCO3	mg/L	0.1			28.3
Carbonate_Alkalinity	mg/L	0.1			-
Hydroxide_CaCO3	mg/L	0.1			-
Carbon_Dioxide	mg/L	0.1			8.2
Stability_Index	pH	0.01			9.93
Lab_pH	pH	0.01	100	.119	6.84
Saturation_Index	pHs	0.01			8.38
Langelier_Index	LX	0.01			-1.54

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: 5110182
Public Water System Name Marco Shores Utilities, 300 Main Sail Dr, Naples, FL 3396 Collier 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___; 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): 5-7-91
Laboratory Sample Number 16889
Sample Location (be specific): Point of Entry.
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Marc Larson Water Plant Operator "B" 005920, 813-394-3353

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 5/21/91

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	16889	1	0.29	EPA180.1	0.05	5/15/91

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	16889		48.8	EPA215.1	0.1	5/21/91
1017	Chloride	16889	250		EPA242.1	0.01	
1019	Carbonate CaCO3	16889		0.0	SM406C	0.01	5/21/91
1021	Hydroxide CaCO3	16889		0.0	SM406C	0.01	5/17/91
1022	Copper	16889			SM314A	0.1	
1023	Bicarbonate CaCO3	16889		28.9	SM314A	0.1	5/17/91
1026	Bicarbonate HCO3	16889		29.0	EPA310.1	0.1	5/17/91
1027	Hydrogen Sulfide	16889			SM406C	0.1	
1028	Iron	16889	0.3		SM406C	0.1	
1031	Magnesium	16889		11.8	EPA242.1	0.01	5/21/91
1032	Maganese	16889	0.05		SM406C	0.01	
1055	Sulfate	16889	250				
1095	Zinc	16889	5				
1901	Carbon Dioxide	16889		7.3	SM406C	0	5/17/91
1905	Color (color units)	16889	15				
1915	Total Hardness	16889		446	EPA160.1	2.5	5/21/91
1917	NCH as CaCO3	16889		141.4	SM314A	0.1	5/17/91
1920	Odor (total odor number	16889	3				
1924	Field pH (units)	16889	6.5-8.5	•			
1925	Lab pH (units)	16889	6.5-8.5	6.90	EPA150.1	0.01	5/17/91
1926	Field Conductivity	16889					
1927	Total Alkalinity	16889		29.0	EPA310.1	0.1	5/17/91
1930	TDS	16889	500	446	EPA160.1	2.5	5/21/91
1931	Phenolphthalein Alk.	16889					
1996	Field Temp. (C)	16889					
1997	Langelier Index	16889	-0.2:+0.2	-1.4535	SM203	0.01	5/21/91
1998	Saturation Index	16889		8.35	SM203	0.01	5/17/91
1999	Stability Index	16889		9.81	SM203	0	5/17/91
2909	Foaming Agents	16889	0.5				
9996	Field DO	16889					
9997	Field Chlorine	16889					

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5180182
Public Water System Name Marco Shores Utilities, 300 Mainsail Dr., Naples, FL. 33961 Collier 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___; 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): 5-8-91
Laboratory Sample Number 16890
Sample Location (be specific): Point of Entry
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resampl
( )Special_____
Sampler Name, Title Phone: Mark Larsen, Water Plant Operator "B" 005990, 813-394-3353

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 5/21/91

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	16890	1	0.31	EPA180.1	0.05	5/15/91

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	16890		47.6	EPA215.1	0.1	5/21/91
1017	Chloride	16890	250		EPA242.1	0.01	
1019	Carbonate CaCO3	16890		29.6	SM406C	0.01	5/21/91
1021	Hydroxide CaCO3	16890		0.0	SM406C	0.01	
1022	Copper	16890			SM314A	0.1	
1023	Bicarbonate CaCO3	16890		29.5	SM314A	0.1	5/17/91
1026	Bicarbonate HCO3	16890		29.6	EPA310.1	0.1	5/17/91
1027	Hydrogen Sulfide	16890			SM406C	0.1	5/17/91
1028	Iron	16890	0.3		SM406C	0.1	5/17/91
1031	Magnesium	16890		11.7	EPA242.1	0.01	5/21/91
1032	Maganese	16890	0.05		SM406C	0.01	
1055	Sulfate	16890	250				
1095	Zinc	16890	5				
1901	Carbon Dioxide	16890		7.0	SM406C	0	5/17/91
1905	Color (color units)	16890	15				
1915	Total Hardness	16890		167	EPA160.1	2.5	5/21/91
1917	NCH as CaCO3	16890		137.4	SM314A	0.1	
1920	Odor (total odor number	16890	3				
1924	Field pH (units)	16890	6.5-8.5	*			
1925	Lab pH (units)	16890	6.5-8.5	6.93	EPA150.1	0.01	5/17/91
1926	Field Conductivity	16890					
1927	Total Alkalinity	16890		29.6	EPA310.1	0.1	5/17/91
1930	TDS	16890	500	451	EPA160.1	2.5	5/21/91
1931	Phenolphthalein Alk.	16890					
1996	Field Temp. (C)	16890					
1997	Langelier Index	16890	-0.2:+0.2	-1.43	SM203	0.01	5/21/91
1998	Saturation Index	16890		8.35	SM203	0.01	5/17/91
1999	Stability Index	16890		9.78	SM203	0	5/17/91
2909	Foaming Agents	16890	0.5				
9996	Field DO	16890					
9997	Field Chlorine	16890					

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Marco Shores Utilities, 300 Main Sail Dr, Naples, FL. 33961 Collier 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___; 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): 5-9-91
Laboratory Sample Number 16891
Sample Location (be specific): Point of Entry
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Mark Larson, Water Plant Operator "B" 005970

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 5/21/91

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	16891	1	0.46	EPA180.1	0.05	5/15/91

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	16891		46.7	EPA215.1	0.1	5/21/91
1017	Chloride	16891	250		EPA242.1	0.01	
1019	Carbonate CaCO3	16891		28.4	SM406C	0.01	5/21/91
1021	Hydroxide CaCO3	16891		0.0	SM406C	0.01	
1022	Copper	16891			SM314A	0.1	
1023	Bicarbonate CaCO3	16891		28.3	SM314A	0.1	5/17/91
1026	Bicarbonate HCO3	16891		28.4	EPA310.1	0.1	5/17/91
1027	Hydrogen Sulfide	16891			SM406C	0.1	5/17/91
1028	Iron	16891	0.3		SM406C	0.1	5/17/91
1031	Magnesium	16891		11.7	EPA242.1	0.01	5/21/91
1032	Maganese	16891	0.05		SM406C	0.01	
1055	Sulfate	16891	250				
1095	Zinc	16891	5				
1901	Carbon Dioxide	16891		8.2	SM406C	0	5/17/91
1905	Color (color units)	16891	15				
1915	Total Hardness	16891		165	EPA160.1	2.5	5/21/91
1917	NCH as CaCO3	16891		136.1	SM314A	0.1	
1920	Odor (total odor number	16891	3				
1924	Field pH (units)	16891	6.5-8.5	*			
1925	Lab pH (units)	16891	6.5-8.5	6.84	EPA150.1	0.01	5/17/91
1926	Field Conductivity	16891					
1927	Total Alkalinity	16891		28.4	EPA310.1	0.1	5/17/91
1930	TDS	16891	500	454	EPA160.1	2.5	5/21/91
1931	Phenolphthalein Alk.	16891					
1996	Field Temp. (C)	16891					
1997	Langelier Index	16891	-0.2:+0.2	-1.54	SM203	0.01	5/21/91
1998	Saturation Index	16891		8.38	SM203	0.01	5/17/91
1999	Stability Index	16891		9.93	SM203	0	5/17/91
2909	Foaming Agents	16891	0.5				
9996	Field DO	16891					
9997	Field Chlorine	16891					

Comments:

[redacted]

CHEMICAL LABORATORIES INCORPORATED

FDER Lab E83018
FDHRS Lab 83139
NCDENR Lab 248
SCDHEC Lab 98018

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-250

RON Weis SSH.

(1)Client MARCO Shores MARCO Island | (2)Address 100 Winward Drive. MARCO ISLAND, FL. 33937 | (3)Phone (813) 394-3353

(4)Public Drinking Water ID # 5110182 | (5)Public Water System Name: MARCO SHORES

(6)Project # 26002 | (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	Wheri-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
1		X			X		X										(8) Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___
2		X						X									TB - 8.00 MN - 12.00 LX PH - 6.00 LX - 67.50
3		X						X									

(9)Rel Relinquished: | (10)Date | (11)Time | (12)Rel Received | (13)Date | (14)Time

SAMPLE INFORMATION; SAMPLE DATE: MONTH 5 DATE 9 YEAR 91

SAMPLE TYPE (check all applicable); *( ) drank, (X) regular distribution ( ) composite, ( ) clearance, ( ) max residence time, (X) plant tap, ( ) raw, ( ) well, (X) resample _____, (X) special POE DIST. SYST.

SAMPLER'S NAME: Marc Larson TITLE: OPERATOR II PHONE: (813) 394-3353

SAMPLER'S SIGNATURE: [signature]

NOTES: TB pulled at POE Distribution System
MN & PH pulled at 1365 Mainsail Dr.

PLEASE SEND SEPARATE FORMATING SHEETS!

/ MN, / PH / LANGLIER INDEX

(2)Parameter Group(s) Analyzed: Turbidity X; Inorganic _; Trihalomethane _; Volatile Organic _; Organic Chemical _; Secondary Chemical _; Radiological _; Unregulated Organic Purgeable _; Unregulated Organic Pesticide _; Unregulated Base Neutral Extractable _; Unregulated Acid Extractable _

(4)Laboratory Number		(15)Client Sample Identification	
116889	#1	LX DAY 1A	POE DIST SYSTEM (PH 7.9 DO 7.7 Temp 27°C
	#2	LX DAY 1B	POE (CONDUCTIVITY 640 Micrchms
116890	#3	LX DAY 2A	(CONDUCTIVITY 640 Micrchms
	#4	LX DAY 2B	PH 8.0 DO 7.6 Temp 27°C
116891	#5	LX DAY 3A	PH 7.9 DO 7.7 Temp 27°C
	#6	LX DAY 3B	(CONDUCTIVITY 640 Micrchms
116892	#7	MN	
	#8	PH	
	#9		
	#10		

(16)Collectors Signature: [signature] Date 5-9-91 Time 11:00 AM

(17)Transporters Signature: _____ _____ _____

(19)Lab Acceptance By: _____ _____ _____

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Jun10 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 5/28
Date Received: May31 1991 Lab Number : 17031

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17031
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	113	3.67	<0.005
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.

Andrew Harrison
Laboratory Manager

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:
Marco Shores
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Jun10 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 5/29
Date Received: May31 1991 Lab Number : 17032

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17032
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	113	3.37	<0.005
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.

Andrew Harrison
Laboratory Manager

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) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
100 Windward Dr.
Marco Isl.,FL 33937

Date Reported: Jun10 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 5/30
Date Received: May31 1991 Lab Number : 17033

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17033
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	113	3.87	<0.005
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.

Andrew Harrison
Laboratory Manager

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: 5110182
Public Water System Name: Southern States Utilities, Marco Shores 500 Marksail Dr. Naples Collier, FL 33962
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___; 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): 5-28-91
Laboratory Sample Number: 17031
Sample Location (be specific): 1365 Mainsail
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ronald Weiss, WTP "B" 005502
Superintendent, PH 1-813-394-3353

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 6/10/91

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	17031			EPA215.1	0.1	
1017	Chloride	17031	250		EPA300.0	0.015	
1019	Carbonate CaCO3	17031			SM314A	0.1	
1021	Hydroxide CaCO3	17031			SM406C	0.1	
1022	Copper	17031	1		EPA220.1	0.005	
1023	Bicarbonate CaCO3	17031			SM406C	0.1	
1026	Carbonate Alkalinity	17031			SM406C	0.1	
1027	Hydrogen Sulfide	17031			EPA376.1	0.5	
1028	Iron	17031	0.3		EPA236.1	0.01	
1031	Magnesium	17031			EPA242.1	0.01	
1032	Manganese	17031	0.05	<0.005	EPA243.1	0.005	6/7/91
1055	Sulfate	17031	250		EPA300.0	0.200	
1095	Zinc	17031	5		EPA289.1	0.001	
1901	Carbon Dioxide	17031			SM406C	0.1	
1905	Color	17031	15		EPA110.1	5	
1915	Total Hardness	17031			SM314A	0.1	
1917	NCH as CaCO3	17031			SM314A	0.1	
1920	Odor(TON)	17031	3		EPA140.1	1	
1924	Field pH	17031	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	17031	6.5-8.5		EPA150.1	0.01	
1926	Field Conductivity	17031			-	0.01	
1927	Total Alkalinity	17031			EPA310.1	0.1	
1930	TDS	17031	500		EPA160.1	2.5	
1931	Phenolphthalein Alk.	17031			EPA310.1	0.1	
1996	Field Temp. (C)	17031			-		1
1997	Langelier Index	17031	-0.2:+0.2		SM203	0.01	
1998	Saturation Index	17031			SM203	0.01	
1999	Stability Index	17031			SM203	0.01	
2909	Foaming Agents	17031	0.5		EPA425.1	0.1	
9996	Field DO	17031			-	0.1	
9997	Field Chlorine	17031			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name: Southern States Utilities, Marco Shores,
Public Water System Type (check one): 300 Mainsail Dr., Naples, Collier, Fl. 33962
(X)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): 5-29-91
Laboratory Sample Number: 17032
Sample Location (be specific): 1365 MAINSAIL
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Ronald Weis WTP "B" 005572
Superintendent, Ph, 1-813-394-3353

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 6/10/91

DER /ACPHU Reviewing Offical:

_____

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

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	17032			EPA215.1	0.1	
1017	Chloride	17032	250		EPA300.0	0.015	
1019	Carbonate CaCO3	17032			SM314A	0.1	
1021	Hydroxide CaCO3	17032			SM406C	0.1	
1022	Copper	17032	1		EPA220.1	0.005	
1023	Bicarbonate CaCO3	17032			SM406C	0.1	
1026	Carbonate Alkalinity	17032			SM406C	0.1	
1027	Hydrogen Sulfide	17032			EPA376.1	0.5	
1028	Iron	17032	0.3		EPA236.1	0.01	
1031	Magnesium	17032			EPA242.1	0.01	
1032	Manganese	17032	0.05	<0.005	EPA243.1	0.005	6/7/91
1055	Sulfate	17032	250		EPA300.0	0.200	
1095	Zinc	17032	5		EPA289.1	0.001	
1901	Carbon Dioxide	17032			SM406C	0.1	
1905	Color	17032	15		EPA110.1	5	
1915	Total Hardness	17032			SM314A	0.1	
1917	NCH as CaCO3	17032			SM314A	0.1	
1920	Odor(TON)	17032	3		EPA140.1	1	
1924	Field pH	17032	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	17032	6.5-8.5		EPA150.1	0.01	
1926	Field Conductivity	17032			-	0.01	
1927	Total Alkalinity	17032			EPA310.1	0.1	
1930	TDS	17032	500		EPA160.1	2.5	
1931	Phenolphthalein Alk.	17032			EPA310.1	0.1	
1996	Field Temp. (C)	17032			-		1
1997	Langelier Index	17032	-0.2:+0.2		SM203	0.01	
1998	Saturation Index	17032			SM203	0.01	
1999	Stability Index	17032			SM203	0.01	
2909	Foaming Agents	17032	0.5		EPA425.1	0.1	
9996	Field DO	17032			-	0.1	
9997	Field Chlorine	17032			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name: Southern States Utilities, Marco Shores
Public Water System Type (check one): 300 Mainsail Dr. Naples, Collier, FL. 33962
(X) 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): 5-30-91
Laboratory Sample Number: 17033
Sample Location (be specific): 1365 Mainsail
Sample Type (check all applicable):

( )Check	(X)Regular Distribution	( )Composite
( )Clearance	( )Maximum Residence Time	( )Plant Tap
( )Raw	( )Well	( )Resample
( )Special_____		

Sampler Name, Title Phone: Ronald Weis WTP "B" 005512
Superintendent PH - 1- 813-394-3353

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 6/10/91

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	17033			EPA215.1	0.1	
1017	Chloride	17033	250		EPA300.0	0.015	
1019	Carbonate CaCO3	17033			SM314A	0.1	
1021	Hydroxide CaCO3	17033			SM406C	0.1	
1022	Copper	17033	1		EPA220.1	0.005	
1023	Bicarbonate CaCO3	17033			SM406C	0.1	
1026	Carbonate Alkalinity	17033			SM406C	0.1	
1027	Hydrogen Sulfide	17033			EPA376.1	0.5	
1028	Iron	17033	0.3		EPA236.1	0.01	
1031	Magnesium	17033			EPA242.1	0.01	
1032	Manganese	17033	0.05	<0.005	EPA243.1	0.005	6/7/91
1055	Sulfate	17033	250		EPA300.0	0.200	
1095	Zinc	17033	5		EPA289.1	0.001	
1901	Carbon Dioxide	17033			SM406C	0.1	
1905	Color	17033	15		EPA110.1	5	
1915	Total Hardness	17033			SM314A	0.1	
1917	NCH as CaCO3	17033			SM314A	0.1	
1920	Odor(TON)	17033	3		EPA140.1	1	
1924	Field pH	17033	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	17033	6.5-8.5		EPA150.1	0.01	
1926	Field Conductivity	17033			-	0.01	
1927	Total Alkalinity	17033			EPA310.1	0.1	
1930	TDS	17033	500		EPA160.1	2.5	
1931	Phenolphthalein Alk.	17033			EPA310.1	0.1	
1996	Field Temp. (C)	17033			-	1	
1997	Langelier Index	17033	-0.2:+0.2		SM203	0.01	
1998	Saturation Index	17033			SM203	0.01	
1999	Stability Index	17033			SM203	0.01	
2909	Foaming Agents	17033	0.5		EPA425.1	0.1	
9996	Field DO	17033			-	0.1	
9997	Field Chlorine	17033			-	0.1	

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS

CHAIN OF CUSTODY RECORD

CLIENT	ADDRESS	PHONE
Marco Shores 26002	100 W. Winward Dr Marco Isl Fl 33937	(813) 394-3253
PROJECT NAME:	REQUIRED: ☐ Urgent ☑ Routine	DATE 5-30-91

Sample Containers	Preservative							Plastic Containers								Glass Containers							
QTY	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		NOTES:
3	X							X															

Kit Relinquished:	Date: 5-24 Time:	Kit Received:	Date: Time:

Parameters: MN only

Laboratory Number	Client Identification/Description
	By Date
17031	5/28
17032	5/29
17033	5/30

		Date	Time
Sample Collection	Ron Weis	5-29-91	2:00 PM
Transportation			
Lab Acceptance		5/31/91	1:10

Page _____ of _____

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

281 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 2:24

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
300 Mainsail Dr.
Naples,FL 33942

Date Reported: Dec23 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1015 MAINSAIL
Date Received: Dec17 1991
Lab Number : 18518

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18518
Arsenic	mg/L	0.0005			-
Barium	mg/L	0.01			-
Cadmium	mg/L	0.001			-
Chromium	mg/L	0.005			-
Fluoride	mg/L	0.05			-
Lead	mg/L	0.001	102	3.58	0.34
Mercury	mg/L	0.0002			-
Nitrate(as N)	mg/L	0.01			-
Selenium	mg/L	0.0005			-
Silver	mg/L	0.005			-
Sodium	mg/L	0.002			-

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:
Marco Shores
300 Mainsail Dr.
Naples,FL 33942

Date Reported: Dec23 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1385 MAINSAIL
Date Received: Dec17 1991 Lab Number : 18519

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18519
Arsenic	mg/L	0.0005			-
Barium	mg/L	0.01			-
Cadmium	mg/L	0.001			-
Chromium	mg/L	0.005			-
Fluoride	mg/L	0.05			-
Lead	mg/L	0.001	102	3.58	0.0287
Mercury	mg/L	0.0002			-
Nitrate(as N)	mg/L	0.01			-
Selenium	mg/L	0.0005			-
Silver	mg/L	0.005			-
Sodium	mg/L	0.002			-

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:
Marco Shores
300 Mainsail Dr.
Naples,FL 33942

Date Reported: Dec23 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1508 TROPIC SCHOONER
Date Received: Dec17 1991 Lab Number : 18520

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18520
Arsenic	mg/L	0.0005			-
Barium	mg/L	0.01			-
Cadmium	mg/L	0.001			-
Chromium	mg/L	0.005			-
Fluoride	mg/L	0.05			-
Lead	mg/L	0.001	102	3.58	0.0581
Mercury	mg/L	0.0002			-
Nitrate(as N)	mg/L	0.01			-
Selenium	mg/L	0.0005			-
Silver	mg/L	0.005			-
Sodium	mg/L	0.002			-

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) 339-5784
FAX: (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Marco Shores
300 Mainsail Dr.
Naples, FL 33942

Date Reported: Dec23 1991
PO Number: 26002
PO Number Marco Shores
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1542 TROPIC SCHOONER
Date Received: Dec17 1991 Lab Number : 18521

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18521
Arsenic	mg/L	0.0005			-
Barium	mg/L	0.01			-
Cadmium	mg/L	0.001			-
Chromium	mg/L	0.005			-
Fluoride	mg/L	0.05			-
Lead	mg/L	0.001	102	3.58	0.0276
Mercury	mg/L	0.0002			-
Nitrate(as N)	mg/L	0.01			-
Selenium	mg/L	0.0005			-
Silver	mg/L	0.005			-
Sodium	mg/L	0.002			-

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: 5110182
Public Water System Name Tinnie Town Hall
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_X_; 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):

SAMPLE INFORMATION
Sample Date (MMDDYY): 12/12/91
Laboratory Sample Number 18518
Sample Location (be specific): 105 mainstreet
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 12/20/91

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

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	18518	0.05		EPA206.3	0.0005	
1010	Barium	18518	1		EPA208.1	0.01	
1015	Cadmium	18518	0.01		EPA213.1	0.001	
1020	Chromium	18518	0.05		EPA218.1	0.005	
1025	Fluoride	18518	4		EPA340.1	0.05	
1030	Lead	18518	0.05	340	EPA239.2	0.001	12/20/91
1035	Mercury	18518	0.002		EPA245.1	0.0002	
1040	Nitrate(as N)	18518	10		EPA353.1	0.01	
1045	Selenium	18518	0.01		EPA270.3	0.0005	
1050	Silver	18518	0.05		EPA272.1	0.005	
1052	Sodium	18518	160		EPA273.1	0.002	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Indian 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_X_; 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):

SAMPLE INFORMATION
Sample Date (MMDDYY): 12/16/91
Laboratory Sample Number 18519
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 12/20/91

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

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	18519	0.05		EPA206.3	0.0005	
1010	Barium	18519	1		EPA208.1	0.01	
1015	Cadmium	18519	0.01		EPA213.1	0.001	
1020	Chromium	18519	0.05		EPA218.1	0.005	
1025	Fluoride	18519	4		EPA340.1	0.05	
1030	Lead	18519	0.05	.0287	EPA239.2	0.001	12/20/91
1035	Mercury	18519	0.002		EPA245.1	0.0002	
1040	Nitrate(as N)	18519	10		EPA353.1	0.01	
1045	Selenium	18519	0.01		EPA270.3	0.0005	
1050	Silver	18519	0.05		EPA272.1	0.005	
1052	Sodium	18519	160		EPA273.1	0.002	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name marco Shore 3
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_X_; 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):

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 18520
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 12/20/91

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

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	18520	0.05		EPA206.3	0.0005	
1010	Barium	18520	1		EPA208.1	0.01	
1015	Cadmium	18520	0.01		EPA213.1	0.001	
1020	Chromium	18520	0.05		EPA218.1	0.005	
1025	Fluoride	18520	4		EPA340.1	0.05	
1030	Lead	18520	0.05	.0581	EPA239.2	0.001	12/20/91
1035	Mercury	18520	0.002		EPA245.1	0.0002	
1040	Nitrate(as N)	18520	10		EPA353.1	0.01	
1045	Selenium	18520	0.01		EPA270.3	0.0005	
1050	Silver	18520	0.05		EPA272.1	0.005	
1052	Sodium	18520	160		EPA273.1	0.002	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 5110182
Public Water System Name Marco Shores
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_X_; 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):

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 18521
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 12/20/91

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

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	18521	0.05		EPA206.3	0.0005	
1010	Barium	18521	1		EPA208.1	0.01	
1015	Cadmium	18521	0.01		EPA213.1	0.001	
1020	Chromium	18521	0.05		EPA218.1	0.005	
1025	Fluoride	18521	4		EPA340.1	0.05	
1030	Lead	18521	0.05	.0276	EPA239.2	0.001	12/20/91
1035	Mercury	18521	0.002		EPA245.1	0.0002	
1040	Nitrate(as N)	18521	10		EPA353.1	0.01	
1045	Selenium	18521	0.01		EPA270.3	0.0005	
1050	Silver	18521	0.05		EPA272.1	0.005	
1052	Sodium	18521	160		EPA273.1	0.002	

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 83139
NCCEHNR Lab# 296
SCDHEC Lab# 96019

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

Attn: Ron Weiss

(1)Client: Marco Shores
(2)Address: 300 MAINSAIL DR. NAPLES, FLORIDA
(3)Phone: (813) 394-0842
(4)Public Drinking Water ID #: 5110182
(5)Public Water System Name: Marco Shores Utilities
(6)Project #: 26007
(7)PO#:
(8)Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

	Sample Points	Preservative: HNO3	Preservative: ZnOAC/NaOH	Plastic Containers: 60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	Glass Containers: 40ml	250ml	500ml	1L	2L	4L
(16)	4	X										X			

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

* - Lead

- Marco Shores
Sampler: Daniel Chapman
Operator "C" 006691

(17)Kit Relinquished: [signature]
(17)Date: 11-25
(17)Time:
(9)Kit Received:
(9)Date:
(9)Time:

(10)Parameter Group(s) Analysed: Turbidity__; Inorganic X; Trihalomethane__; Volitile 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
18518 *	#1 1015 MAINSAIL
18519 *	#2 1385 MAINSAIL
18520 *	#3 1508 TROPIC SCHOONER
18521 *	#4 1542 TROPIC SCHOONER
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	Daniel Chapman	12-16-91	2:00 pm
(14)Transporters Signature:			
(15)Lab Acceptance By:		12/17/91	2:35

Over for numbered instructions.

ORLANDO LABORATORIES
P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

CLARA

REPORT OF ANALYSIS

Marco Island Utilities
P.O. Box 197
Marco Island, FL 33937

Attn: Ron Weis

Work Order # : 90-02-077
Date Received: 02/06/90
Date Reported: 02/20/90
OLI Contact: E_HOBBS

RECEIVED
FEB 22 1990
MARCO UTILITIES

Work ID: 5110182 Marco Shores Util
Total Samples: 2

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Sample #1	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
	DERFLD 17-550 Field Data
	DERPDH 17-550 Primary Metals Only
	DERPDW 17-550 Primary WetChem
	DERSDH DER 17-5 Secondary Metals
	DERSDW DER 17-5 Secondary Wet Chm
	DERTRB 17-550 Turbidity Analysis
	DER_GA Gross Alpha (water)17-550

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 Halarek
QUALITY CONTROL

The Analytical Specialists

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 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 2/9/90
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	416.0	1.0

ORLANDO LABORATORIES, INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 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 02/06/90
DATE RUN 02/12/90
DILUTION FACTOR 50
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

Parameter ID	Name	Analysis Result	Det. Lt.
2946	Ethylene dibromide	1.0 U	1.00

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/06/90
DATE RUN 02/09/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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 2/9/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

Parameter ID	Name	Analysis Result		Det. Lt.
2959	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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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 2/9/90
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	120.0	-	0.5
2942	Bromoform	16.0	-	0.5
2943	Bromodichloromethane	163.0	-	0.5
2944	Dibromochloromethane	117.0	-	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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077
Continued From Above

SAMPLE ID Samole #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME OER 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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 01A
MATRIX WATER
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED NA
DATE RUN 02/06/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result		Det. Lt.
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 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 02/07/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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 02/07/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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 02/08/90
DATE RUN 02/14/90
DILUTION FACTOR 2
% 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	4.0	U	4
2110	2,4,5-TP (Silvex)	2.0	U	2

ORLANCO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 01A
MATRIX WATER
TEST CODE 615U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/14/90
DILUTION FACTOR 2
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result	Det. Lt.
2031	Dalapon	2.0 U	2
2040	Picloram	2.0 U	2
2041	Dinoseb	4.0 U	4
2440	Dicamba	4.0 U	4

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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 02/07/90
DATE RUN 02/08/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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 2/6/90
DATE RUN 2/8/90
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.
2306	Pentachlorophenol	50	U	50

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME 17-550 Total Coliform Bact

SAMPLE# 01A
MATRIX WATER
TEST CODE OERBCT

MICROBIOLOGICAL ANALYSIS
17-550.640

Parameter ID	Name	Analysis Result(Cfu's/100ml)	Analytical Method
3000	Total Coliform	36/M	EPA Part III B

Date Set Up: 02/06/90
Date Read : 02/07/90

ORLANDO LABORATORIES,INC.
Received: 02/05/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME 17-550 Field Data

SAMPLE# 01A
MATRIX WATER
TEST CODE DERFLD

SECONDARY CHEMICAL ANALYSIS FIELD DATA
17-550.320
(PWS031)

Parameter ID	Name	Analysis Result	Method	Det.Lt.
1924	Field pH (units)	8.00	EPA150.1	N/A
1925	Field Conductivity (umhos)	675	EPA120.1	1 umhos
1996	Field Temp. (C)	22	EPA170.1	N/A
9996	Field DO	9.0	EPA360.1	.2mg/l

Note: Date Analyzed is same as date collected.

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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	02/11/90
1010	Barium	<0.100	EPA200.7	0.100	02/14/90
1015	Cadmium	<0.005	EPA213.2	0.005	02/11/90
1020	Chromium	<0.010	EPA218.2	0.010	02/12/90
1030	Lead	<0.010	EPA239.2	0.010	02/14/90
1035	Mercury	<0.0005	EPA245.1	0.0005	02/11/90
1045	Selenium	<0.005	EPA270.2	0.005	02/11/90
1050	Silver	<0.010	EPA272.2	0.010	02/12/90
1052	Sodium	76.5	EPA200.7	0.001	02/14/90

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
TEST NAME 17-550 Primary WetChem

SAMPLE# 01A
MATRIX WATER
TEST CODE DERPDW

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)	<0.03	EPA353.2	0.03	02/13/90

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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	02/14/90
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	112.0	EPA200.7	2.5	02/14/90

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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	120	SM 407	1.0	02/12/90
1025	Fluoride	<0.1	EPA340.2	0.1	02/13/90
1055	Sulfate	81	EPA375.4	1.0	02/07/90
1901	Carbon Dioxide	<1	SM 406 C	1.0	02/15/90
1905	Color	<5	SM 204 A	5PCU	02/07/90
1920	Odor Threshold	1	EPA140.1	1TON	02/07/90
1927	Total Alkalinity	41	EPA310.1	2.0	02/07/90
1930	Total Dissolved Solids	400	EPA160.1	1.0	02/12/90
1931	Phenolphthalein Alk	<2.0	EPA310.1	2.0	02/07/90
1997	Langelier Index pHs	8.21	CALC.	N/A	02/15/90
1998	Saturation Index	-0.31	CALC.	N/A	02/15/90
2909	Foaming Agents	0.11	EPA425.1	0.1	02/07/90

VERIFIED BY DTA

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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	EPA180.1	02/07/90

ORLANDO LABORATORIES, INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Sample #1
DATE COLLECTED 02/05/90 13:30:00
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	3.8	02/15/90

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 2/9/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 02/06/90
DATE RUN 02/09/90
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

ORLANOD LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 02/06/90
DATE RUN 02/09/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 2/9/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 2/9/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 JHW

DATE EXTRACTED NA
DATE RUN 02/06/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result		Det. Lt.
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 02/07/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 02/07/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 02/08/90
DATE RUN 02/14/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 02/08/90
DATE RUN 02/14/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

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 mg/l
ANALYST JHW

DATE EXTRACTED 02/07/90
DATE RUN 02/08/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-077

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unreg BNAs/Pest

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/6/90
DATE RUN 2/8/90
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.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-06-1990

LAB SAMPLE # : 9002656-02A
ANALYSIS DATE : 02/06/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	182	162	55	95	7

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	77	127	20	72	132	20

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER **LAB SAMPLE # : 9002056-1**
REPORT DATE : 02-10-1990 **ANALYSIS DATE : 2/9/90**

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	118	59	129	65	9
2-chlorophenol	200	0	159	80	157	79	1
4-chloro-3-methylphenol	200	0	195	98 *	210	105 *	7
4-nitrophenol	200	0	145	73	180	90	22
pentachlorophenol	200	0	191	96	197	99	3
1,4-dichlorobenzene	100	0	79	79	77	77	3
n-nitroso-di-n-propylamine	100	0	65	65	67	67	3
1,2,4-trichlorobenzene	100	0	82	82	77	77	6
acenaphthene	100	0	119	119 *	117	117	2
2,4-dinitrotoluene	100	0	125	125 *	133	133 *	6
pyrene	100	0	126	126	63	63	67 *

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/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002082-10
ANALYSIS DATE : 2/9/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	43	86	47	94	9
trichloroethene	50	0	40	80	45	90	12
benzene	50	0	42	84	49	98	15 *
toluene	50	0	48	96	52	104	8
chlorobenzene	50	0	42	84	48	96	13

COMMENTS : * = parareter 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 : 02-12-1990

LAB SAMPLE # : 9002056-03A
ANALYSIS DATE : 02/08/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
diazinon	100	0	76	76	75	75	0

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 : 02-12-1990

LAB SAMPLE # : 9002080-01A
ANALYSIS DATE : 02/09/90

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	98	20

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-14-1990

LAB SAMPLE # : 9002066-01
ANALYSIS DATE : 02/14/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD RECOVERY	RPD
DALAPON	186	0	118	118	117	117	6
PICLORAM	189	0	154	154	156	156	1

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
DALAPON	95	175	20	95	175	20
PICLORAM	95	175	20	95	175	20

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Cadmium	2	101	02/11/90	CJP
Selenium	3	100	02/11/90	CJP
Arsenic	4	105	02/11/90	CJP
Mercury	5	99	02/11/90	CJP
Chromium	<1	95	02/12/90	CFG
Silver	<1	95	02/12/90	CFG
Barium	<1	99	02/14/90	BB
Sodium	1	106	02/14/90	BB
Copper	<1	100	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
Nitrite Nitrogen	<1	100	02/07/90	DR
Turbidity	<1	N/A	02/07/90	DR
Color	<1	N/A	02/07/90	DR
Odor	<1	N/A	02/07/90	DR
MBAS	<1	94	02/07/90	DB
pH	<1	N/A	02/07/90	DB
Total Alkalinity	4	83	02/07/90	DA
Sulfate	<1	93	02/07/90	DA
Chloride	5	105/110	02/12/90	DA
TDS	2	96/94	02/12/90	DB
Fluoride	4	107/103	02/13/90	DA
Nitrate Nitrogen	<1	99	02/13/90	DR
Gross Alpha	0.1 *	99	02/15/90	JAB

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

There is no QA/QC for the 608R and 608U compounds. The samples spiked were sulfur cleaned twice which interfered with the spike recoveries.

Total Coliform: Set date 02/06/90 at 1330 hours.
Read date 02/07/90 at 1330 hours.

End of Report

(INSTRUCTIONS ON BACK) Page _____ of _____

1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP): Marco Island UTILITIES P.O. Box 197, Marco Island, FL, 33937	2 CONTACT PERSON/PHONE # INVOICE: Ron Weis 813-394 3353	3 OLI WORK ORDER (LAB USE): 900377
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP): Marco Island UTILITIES, Ron Weis, Marco Island FL, 33937	5 CONTACT PERSON/PHONE # REPORT	6 RB NUMBER (LAB USE): 517
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP): SAME		
8 CLIENT PROJECT NAME: Marco Shores UTILITIES	9 CLIENT PROJECT #: 5110182	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS	19 REMARKS
Treated Drinking Water							According To	17-550 FAC		
Sample For Primary, Secondary And Unregulated Organic Contaminants.										
Sample Pulled	2-5-90 1:30 PM									

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st		2-5-90 2:00 PM	
2nd			
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s: 89

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB

0127

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 5 9 31 AM '91

BY: B. E. FRAZIER

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Marco Shores Utilities SYSTEM I.D. NO: 5112182 SYSTEM PHONE #: 813-394-[illegible]

ADDRESS: 300 Main Sail Dr Naples Fl 33961 COUNTY: Collier DER DISTRICT: 5

COLLECTOR: Randy Glenn Pool 191 COLLECTOR PHONE #: 813-394-3353

SAMPLE SITE (Locality or Subdivision): Marco Shores

DATE AND TIME COLLECTED: TIME, DATE 12-4-91 12:30 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) (Check Box)
[x] Distribution [ ] TNTC or C
[x] Raw [ ] Turbid
[ ]

REMARKS:
#1A Sample is Raw.

TO BE COMPLETED BY COLLECTOR OF SAMPLE				TO BE COMPLETED BY LAB — ANALYSIS METHOD: MF MTF MMO-MUG DC PA				
COLL. NO.	SAMPLE POINT (Specific Address)	Cl RES'D	pH	SAMPLE NUMBER	NON COLIFORM	*TOTAL	CONFIRM TOTAL	CONFIRM FECAL
1A	Raw	—	7.9	87536		A		
2A	Plant Effl. +	1.1	7.5	87537		A		
3A	GST Plant	1.0	7.6	87538		A		
4A	Hydr. Tank	1.2	7.-	87539		A		
5A	Tropical Schooner 1512		7.5	87540		A		
6A	Main Sail I 1569	1.3	7.6	87541		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

COMPLETE + RESUBMIT

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

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

[illegible]
P.O. Box 117
[illegible]

REVIEWING OFFICIAL: [signature]

TITLE: ES II

Marion Oaks Utilities - 11001

Marion County (UFU)

Water

- 1992 FPSC Filing -

Marion 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	2/90
Organic	2/90
Volatile Organic Chemicals	3/89
	6/89
	9/89
	12/89
Turbidity	2/90
Microbiological	12/91
Radionuclide	2/90
Secondary Contaminants	2/90
Unregulated Contaminants	10/91

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

REPORT OF ANALYSIS

Marion Oaks Utilities
P.O. Box 11179
Ocala, FL 32673

Attn: Bill Yocum

Work Order # : 90-02-142
Date Received: 02/13/90
Date Reported: 03/02/90
OLI Contact: D_HOLDING

Work ID: 6421144 Marion Oaks Util.
Total Samples: 3

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 M.O. Dist.	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
	DERFLD 17-550 Field Data
	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 02/13/90 at 1200 hours
Read date 02/14/90 at 1200 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

WORK SHEET

WORK ORDER: 90-02-142

RCVD: 02/13/90 DUE: 03 [illegible]

02/13/90 14:22:24

STAT: TRANSMITTED 02/[illegible]

SH	CLIENT SAMPLE ID	MATRIX	DEPT DATE/TIME COLLECTED TESTS in DEPT: 09. FRACTIONS
04	D.C. Dist.	WATER	09 FD 02/12/90 15:00:00 : DERFLD

90-02-142

AMPLE ID M.C. Dist.
ATE COLLECTED 02/12/90 15:00:00
EST NAME 17-550 Trihalomethanes

SAMPLE NO. 1A
MATRIX WATER
TEST NO. 0015

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/15/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-501.2
TRIHALOMETHANE ANALYSIS
17-550.310(C)(C)
(PWS027)

Parameter ID	Name	Analysis Result	Det. Lt.
2550	TTHM	1.0 U	1.0

[illegible] REPORT OF ANALYSIS Work Order # 9002142
[illegible] Results by Sample

SAMPLE ID N.O. Dist.
DATE COLLECTED 02/12/90 15:00:00
EDT NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504E

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/13/90
DATE RUN 02/15/90
DILUTION FACTOR 25
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS003)

Parameter ID	Name	Analysis Result	Det. Lt.
2946	Ethylene dibromide	0.3 U	0.50

REPORT OF ANALYTI
Results by Sample

*90-02142.

PLE ID: M.O. Dist.
E COLLECTED: 02/12/90 15:00:00
T NAME: 17-550 "DBCP" Analysis

SAMPLE#: 01A
MATRIX: WATER
TEST CODE: 504U

SAMPLE TYPE: WATER
UNITS: UG/L
ANALYST: JAB

DATE EXTRACTED: 02/13/90
DATE RUN: 02/15/90
DILUTION FACTOR: 25
% MOISTURE: NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(I)
(PWS034)

Parameter ID	Name	Analysis Result		Det. Lt.
2931	1,2-dibromo-3-chloro propane	0.5	U	0.50

90-02-142

SAMPLE ID: M.D. Dist.
DATE COLLECTED: 02/12/90 15:00:00
LIST NAME: DEP 17-550 Regulated VOA's

SAMPLE# 01A
MATRIX WATER
TEST CODE 524P

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/15/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

Parameter ID	Name	Analysis Result		Det. Lt.
2565	p-Dichlorobenzene	0.5	U	0.5
2576	Vinyl Chloride	0.5	U	0.5
2577	1,1-Dichloroethene	0.5	U	0.5
2580	1,2-Dichloroethane	0.5	U	0.5
2581	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

REPORT OF ANALYSIS
Results by Sample

= 90-02-142

SAMPLE ID N.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME DEP 17-550 Unregulated VOA

SAMPLE# 02A
MATRIX WATER
TEST CODE 52411

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/15/90
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

-EPTH OF ANAL III
Results by Semivo

90-02-142

SAMPLE ID .O. Dist.
-TE COLLECTED 02/12/90 15:00:00
EST NAME GEF 17-550 Unregulated VOA

SAMPLE ID 01A
MATRI WATER
TEST CODE 8240

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

[illegible] 90-02142

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID: M.U. Dist.
DATE COLLECTED: 02/12/90 15:00:00
TEST NAME: DER 17-550 Unreg Pest 531s

SAMPLE#: 01A
MATRIX: WATER
TEST [illegible]: P510

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: JAE

DATE EXTRACTED: NA
DATE RUN: 02/13/90
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	1.0	U	2
2043	Aldicarb Sulfo...de	2.0	U	2
2044	Aldicarb Sulfone	2.0	U	2
2046	Carbofuran	1.5	U	1.5
2036	Oxamyl (Vydate)	2.0	U	1

Delivered: 02 13 90

90-02-142

SAMPLE ID: M.W. Inst.
DATE COLLECTED: 02/12/90 15:00:00
TEST NAME: OER 17-550 Ren. Pest wOas

SAMPLE#:
MATRIX: TEF
TEST CODE: WAP

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(C)(a)
(PM3029)

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

[illegible] INC.
Received [illegible]

REPORT OF ANALYSIS
Results of Sample

90-02-142

SAMPLE ID N.G. Dist.
DATE COLLECTED 02/12/90 15:00:00
EDT NAME DEF 17-550 Unreg Test Code

SAMPLE# 12
MATRIX WATER
TEST CODE [illegible]

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAE

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)
(PW0035)

Parameter ID	Name	Analysis Result		Det. Lt.
2005	Heptachlor	0.05	U	0.05
2350	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)
(PB0036)

Parameter ID	Name	Analysis Result		Det. Lt.
2386	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

[illegible] OF MATERIALS INC.
Received: 12/96

REPORT OF ANALYSIS
Results by Sample

Work # 90-02-142

SAMPLE ID N.D. Dust.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME DEP 17-550 Reg. Hour 615

SAMPLE# 11A
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAE

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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

[illegible] LABORATORIES, INC.
Received: 02/13/90

REPORT OF ANALYSIS
Results by Sample

Work [illegible] 90-02-142

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME OER 17-550 Unreg Pest 515

SAMPLE# 11A
MATRIX WATER
TEST CODE 515U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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

90-02-142

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME DER 17-550 Unreg Pest 622a

SAMPLE NA
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
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

[illegible] LABORATORIES, INC.
[illegible]

REPORT OF ANALYSIS
Results by Sample

[illegible] 90-02[illegible]42

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
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 2/14/90
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

[illegible] LABORATORIES, INC.
Delivered [illegible] 2 90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-142

SAMPLE ID M.O. Dist.
DATE COLLECTED 02/12/90 15:00:00
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: 02/13/90
Date Read : 02/14/90

90-02-142

[illegible] Inc. [illegible]
Received: 02 [illegible] 90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID N.G. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME 17-550 Field Data

SAMPLE# 01A
MATRIX WATER
TEST CODE DERFLD

SECONDARY CHEMICAL ANALYSIS FIELD DATA
17-550.320
(PWS031)

Parameter ID	Name	Analysis Result	Method	Det.Lt.
1924	Field pH (units)	7.0	EPA150.1	N/A
1928	Field Conductivity (umhos)	NA	EPA120.1	1 umhos
1994	Field Temp. (C)	NA	EPA170.1	N/A
1996	Field DO	NA	EPA360.1	.2mg/l

Note: Date Analyzed is same as date collected.

[illegible] ENGINEERING
Received: [illegible] 13/90

[illegible] REPORT [illegible]
Results [illegible] Samples

90-02-142

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME 17-550 Primary Metals Only

SAMPLE# [illegible]
MATRIX WATER
TEST CODE GEPDM

(METALS)
INORGANIC ANALYSIS
17-550.316(1)
(PWS030)

Parameter ID	Name	Analysis Result(mg/l)	Method	Det.Lt. (mg/l)	Analysis Date
1005	Arsenic	<0.010	EPA206.2	0.010	02/17/90
1010	Barium	<0.100	EPA200.7	0.100	02/16/90
1015	Cadmium	<0.010	EPA213.2	0.005	02/16/90
1020	Chromium	<0.010	EPA218.2	0.010	02/15/90
1030	Lead	<0.010	EPA239.2	0.010	02/15/90
1035	Mercury	<0.0005	EPA245.1	0.0005	02/15/90
1045	Selenium	<0.005	EPA270.2	0.005	02/15/90
1050	Silver	<0.010	EPA272.2	0.010	02/16/90
1052	Sodium	8.35	EPA200.7	0.001	02/16/90

[illegible] LABORATORIES, INC.
Received: 02/13/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-142

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME 17-550 Primary WetChem

SAMPLE# 01A
MATRIX WATER
TEST CODE DEPPDW

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	0.20	EPA340.2	0.1	02/19/90
1040	Nitrate (as N)	1.3	EPA353.2	0.09	02/19/90

90-02-142

[illegible] LABORATORIES, INC.
[illegible]

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]-142

SAMPLE ID M.O. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME DEP 17-5 Secondary Metals

SAMPLE# 014
MATRIX WATER
TEST CODE DEPSDM

(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	02/16/90
1032	Manganese	<0.050	EPA200.7	0.050	02/16/90
1095	Zinc	<0.050	EPA200.7	0.050	02/16/90
1919	Calcium Hardness	168.0	EPA200.7	0.5	02/16/90

[illegible] LABS, INC.
Received: 2 12 90

REPORT OF ANALYSIS
Results by Sample

Work 90-02-142

SAMPLE ID M.C. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME DEP 17-5 Secondary Wet Chm

SAMPLE: QA
MATRIX: WATER
TEST CODE: DER320W

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	7.0	SM 407	1.0	02/19/90
1025	Fluoride	0.20	EPA340.2	0.1	02/19/90
1055	Sulfate	97	EPA375.4	1.0	02/20/90
1301	Carbon Dioxide	2.5	SM 406 C	1.0	02/22/90
1905	Color	<5.0	SM 204 A	5PCU	02/14/90
1920	Odor Threshold	1.0	EPA140.1	1TON	02/14/90
1927	Total Alkalinity	120	EPA310.1	2.0	02/14/90
1930	Total Dissolved Solids	260	EPA160.1	1.0	02/16/90
1931	Phenolphthalein Alk	<2.0	EPA310.1	2.0	02/14/90
1997	Langelier Index @ 4	7.5	CALC.	N/A	02/22/90
1998	Saturation Index	0.4	CALC.	N/A	02/22/90
2909	Foaming Agents	<0.1	EPA425.1	0.1	02/10/90

VERIFIED BY SRI

[illegible] REPORT OF [illegible] 90-02142
[illegible] Results of Sample

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/13/90 15:00:00
TEST NAME 17-550 Turbidity Analysis

SAMPLE# 016
MATRIX WATER
TEST CODE DEPTRB

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

Parameter ID	Name	Analysis Result(NTU)	Method	Analysis Date
0100	Turbidity	<1.0	EPA180.1	02/14/90

[illegible] LABORATORIES, INC.
Received: [illegible] 1/90

REPORT OF ANALYSIS
Results by Sample

[illegible] 90-02-142

SAMPLE ID M.D. Dist.
DATE COLLECTED 02/12/90 15:00:00
TEST NAME Gross Alpha (Water)17-550

SAMPLE# 01A
MATRIX WATER
TEST CODE DEF 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	1.1	EPA900.0	2.0	02/27/90

[illegible] REPORT OF ANALYSIS Work Order # 90-02-142
[illegible] Results by Sample

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 Trihalomethanes

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 501F

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/15/90
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

90-02-142.

...-TOXIE...INC.
...ber: 02 15/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID: Method Blank
DATE COLLECTED: not specified
TEST NAME: 17-550 "SDB" Analysis

SAMPLE#: 03A
MATRIX: METHOD BLANK
TEST CODE: 504R

SAMPLE TYPE: WATER
UNITS: UG/L
ANALYST: JAB

DATE EXTRACTED: 02/13/90
DATE RUN: 02/15/90
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

[illegible] LABORATORIES, INC.
[illegible] Test 02 15 '90

REPORT OF [illegible]
Results by Sample

90-02-142

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "OSCP" Analysis

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/13/90
DATE RUN 02/15/90
DILUTION FACTOR 25
% MOISTURE N/A

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	0.5 U	0.50

[illegible] LABORATORIES, INC.
Received: 02/[illegible]/90

[illegible] OF [illegible]
Results [illegible] Sample

90-02-142

SAMPLE ID Method Blank
DATE COLLECTED Not specified
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# [illegible]
MATRIX METHOD BLANK
TEST [illegible] 524F

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJF

DATE EXTRACTED NA
DATE RUN 2/15/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PH3028)

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

90-02-142

ANALYTICAL REPORT
Received 2/10/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DEP 17-550 Unregulated VOA

SAMPLE# NA
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/15/90
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-Dichloropropene	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-Dichloroethene	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-Tetrachloroethane	0.5	U	0.5
2988	1,1,2,2-Tetrachloroethane	0.5	U	0.5
2989	Chlorobenzene	0.5	U	0.5

[illegible] LABORATORIES, INC.
Received: 12/13/90

REPORT OF ANALYSIS
Results by Sample

90-02-142.

[illegible]
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 08A
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

90-02-142

SAMPLE ID: Method Blank
SITE COLLECTED: not specified
TEST NAME: DER 17-550 Unreg Pest 608

DATE EXTRACTED: NA
DATE RUN: 02/13/90
DILUTION FACTOR: 1
% MOISTURE: NA

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: JAB

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
(17-550.410(1))
(EW5035)

Parameter ID	Name	Analysis Result		Det. Lt.
2047	Aldicarb	1.0	U	1
2043	Aldicarb Sulfoxide	2.0	U	2
2044	Aldicarb Sulfone	2.0	U	2
2046	Carbofuran	1.5	U	1.5
2038	Oxamyl (Vydate)	2.0	U	1

90-02-142

SAMPLE ID: Method Blank
DATE COLLECTED: not specified
TEST NAME: DER 17-550 Req. Pest 608s

SAMPLE: 03A
MATRIX: METHOD BLANK
TEST CODE: 608P

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

90-02-142

AMPLE ID [illegible]
ATE COLLECTED [illegible]
EST NAME DEF 17-ESC Unregulated Base Acids

AMPLE [illegible]
MATRIX METHOD BLANK
TEST [illegible]

AMPLE TYPE WATER
UNITS ug/l
ANALYST PAR

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-ESC.410(1)
(PN0035)

Parameter ID	Parameter Name	Analysis Result		Det. Lt.
2005	Heptachlor	0.05	U	0.05
2051	Aldrin	0.05	U	0.05
2064	Dieldrin	0.10	U	0.10
2959	Chlordane	0.50	U	0.50

UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-ESC.410(1)
(PN0035)

Parameter ID	Parameter Name	Analysis Result		Det. Lt.
2060	PCB-1016	0.50	U	0.5
2080	PCB-1221	0.50	U	0.5
2082	PCB-1232	0.5	U	0.5
2084	PCB-1242	0.50	U	0.5
2090	PCB-1248	0.50	U	0.5
2096	PCB-1254	1.0	U	1.0
2400	PCB-1260	1.0	U	1.0

90-02-142

SAMPLE ID: Method Blank
DATE COLLECTED: not specified
TEST NAME: DEC 17-650 Reg. Subpt. 15

SAMPLE #:
MATRIX: METHOD BLANK
TEST [illegible]: [illegible]

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: RAB

DATE EXTRACTED: 02/19/90
DATE RUN: 02/20/90
DILUTION FACTOR: 1
% MOISTURE: NA

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-650.210(2)(b)
(PM5029)

Parameter #	Name	Analytes Result		Det. Lt.
2105	2,4-D	2.0	U	2
2110	2,4,5-TP (Silvex)	1.0	U	1

90-02-142

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# [illegible]
MATRIX METHOD BLANK
TEST CODE [illegible]

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/13/90
DATE RUN 02/20/90
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

[illegible] LABORATORIES, INC.
Received: 02 [illegible] 90

REPORT OF ANALYSIS
Results by Sample

90-02-J42

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME CER 17-550 Unreg Pest 622a

SAMPLE: 90M
MATRIX: METHOD BLANK
TEST CODE: 622U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/13/90
DATE RUN 02/14/90
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
2049	Metolachlor	0.5	U	0.5
2050	Atrazine	0.5	U	0.5
2051	Alachlor (Lasso)	0.5	U	0.5

OR 90-02-142

AMPLE ID Method Blank
ATE COLLECTED not specified
EST NAME OER 17-550 Unreg BNAs/Pest

AMPLE ID NONE
MATRIX METHOD BLANK
TEST SOIL MENU

AMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/14/90
DATE RUN 2/22/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PW0036)

Parameter ID	Name	Analysis Result		Det. Lt.
2262	Isophorone	10	U	10
2378	1,2,4-Trichlorobenzene	10	U	10
2042	Hexachlorocyclopentadiene	10	U	10
2262	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
3089	Dioctylphthalate	10	U	10
2063	2,3,7,8-TCDD (Dioxin)	1000	U	1000

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PW0037)

Parameter ID	Name	Analysis Result		Det. Lt.
3108	2-Chlorophenol	10	U	10
3112	2-Methyl-4,6-Dinitrophenol	50	U	50
3115	Phenol	10	U	10
3116	2,4,6-Trichlorophenol	10	U	10

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW0035)

Parameter ID	Name	Analysis Result		Det. Lt.
2326	Pentachlorophenol	50	U	50

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

1ST COTC
Modified

eceived From:
Marion Oaks Util.
P.O.Box 11179
Ocala,Fl.32673

Date Reported: Apr17 1989

DHRS Lab# : 83139
DER Lab# : E83018

or: VO/SOC (BY SERIES 500)
ite Received: Mar23 1989 Lab Numbers: 13494-13494

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	13494 2 WELL COMPO.
Dilution_Factor		1	-	-	1
,1,1-Trichlorethane	ug/L	1	98.9	2.22	<1
1-Dichloroethylene	ug/L	1	91.9	1.92	<1
,2-Dichloroethane	ug/L	1	103	2.72	<1
rbon_Tetrachloride	ug/L	1	100	1.79	<1
Trichloroethylene	ug/L	1	101	2.46	<1
etrachloroethylene	ug/L	1	100	3.71	<1
p-Dichlorobenzene	ug/L	0.5	95.2	2.36	<0.50
Benzene	ug/L	0.5	93.7	2.36	<0.50
Vinyl_Chloride	ug/L	1	95.6	3.75	<1
,1,2,2-Tetraclrethn	ug/L	1	95.7	6.01	<1
,1,2-Trichlorethane	ug/L	1	99.5	4.53	<1
,1-Dichloroethane	ug/L	1	97.6	1.59	<1
,2-Dichloropropane	ug/L	1	98.3	3.39	<1
romodichloromethane	ug/L	1	96.8	3.65	<1
Bromoform	ug/L	1	94.0	1.77	<1
,3-Dichloropropene	ug/L	1	93.5	5.18	<1
Chloroform	ug/L	1	97.5	2.92	<1
lorodibromomethane	ug/L	1	92.1	8.25	<1
Dichloromethane	ug/L	1	98.7	1.38	<1
-1,2-Dichlrethylene	ug/L	1	92.5	3.53	<1
,2-Dbrm-3-chlrprpan	ug/L	3	90.6	3.79	<3
Bromomethane	ug/L	3	95.6	3.75	<3
Chlorobenzene	ug/L	0.5	94.1	10.3	<0.50
Chloroethane	ug/L	3	92.0	1.55	<3
Chloromethane	ug/L	5	95.6	3.75	<5

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.

SENT
APR 21 1989
CITRUS SPRINGS UTILITIES
CONSTRUCTION OFFICE

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

eceived From:
Marion Oaks Util.
P.O.Box 11179
Ocala,Fl.32673

Date Reported: Apr17 1989

DHRS Lab# : 83139
DER Lab# : E83018

or: VO/SOC (BY SERIES 500)
ate Received: Mar23 1989 Lab Numbers: 13494-13494

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	13494 2 WELL COMPO.
o-Dichlorobenzene	ug/L	0.5	93.3	4.72	<0.50
m-Dichlorobenzene	ug/L	0.5	94.3	1.97	<0.50
Ethylbenzene	ug/L	0.5	97.1	3.84	<0.50
Toluene	ug/L	0.5	96.2	5.35	<0.50
m-Xylene	ug/L	0.5	91.2	5.78	<0.50
o-Xylene	ug/L	0.5	95.6	1.60	<0.50
p-Xylene	ug/L	0.5	95.6	1.60	<0.50
Bromobenzene	ug/L	1	95.6	3.75	<1
o-Chlorotoluene	ug/L	1	95.6	3.75	<1
p-Chlorotoluene	ug/L	1	95.6	3.75	<1
Dibromomethane	ug/L	2	95.6	3.75	<2
-1,2-Dichlrethylene	ug/L	1	95.6	3.75	<1
1,3-Dichloropropane	ug/L	1	95.6	3.75	<1
2,2-Dichloropropane	ug/L	1	95.6	3.75	<1
1,1-Dichloropropene	ug/L	1	95.6	3.75	<1
Styrene	ug/L	1	95.6	3.75	<1
,1,1,2-Tetraclrethn	ug/L	1	95.6	3.75	<1
,2,3-Trichlorprpane	ug/L	1	95.6	3.75	<1
richlorofluorometha	ug/L	1	92.2	3.21	<1
ichlorodifluorometh	ug/L	1	95.6	3.75	<1
ethyl-tertbutylethe	ug/L	0.5	91.6	10.8	<0.50
-		-			-
Ethylene_Dibromide	ug/L	.005	99.6	2.46	<.0050
2-Chlorophenol	ug/L	5	93.9	2.99	<5
-Met-4,6-dintrphenl	ug/L	5	93.9	2.99	<5
Pentachlorophenol	ug/L	5	93.9	2.99	<5

Data Release Authorization

ample integrity and reliability certified by Lab personnel prior to analysis.
thods 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

eceived From:
Marion Oaks Util.
P.O.Box 11179
Ocala,Fl.32673

Date Reported: Apr17 1989

DHRS Lab# : 83139
DER Lab# : E83018

or: VO/SOC (BY SERIES 500)
ate Received: Mar23 1989 Lab Numbers: 13494-13494

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	13494 2 WELL COMPO.
Phenol	ug/L	5	93.9	2.99	<5
,4,6-Trichlorphenol	ug/L	5	93.9	2.99	<5
(2-ethhex)phthalate	ug/L	5	99.8	3.69	<5
utylbenzylphthalate	ug/L	5	99.8	3.69	<5
Di-n-butlyphthalate	ug/L	5	99.8	3.69	<5
Di-n-octylphthalate	ug/L	5	99.8	3.69	<5
Diethylphthalate	ug/L	5	99.8	3.69	<5
Dimethylphthalate	ug/L	5	99.8	3.69	<5
2,4-Dinitrotoluene	ug/L	5	99.8	3.69	<5
Isophorone	ug/L	5	99.8	3.69	<5
,2,4-Trichlrbenzene	ug/L	5	99.8	3.69	<5
exchlrcyclpentdiene	ug/L	5	99.8	3.69	<5
Dioxin	ug/L	0.01	96.8	3.87	<.010
Aldrin	ug/L	.003	98.6	3.27	<.0030
Chlordane	ug/L	0.04	98.1	3.62	<.040
Dieldrin	ug/L	.006	97.7	2.46	<.0060
Heptachlor	ug/L	.002	101	2.12	<.0020
PCB_1016	ug/L	0.05	96.8	3.87	<.050
PCB_1221	ug/L	0.05	96.8	3.87	<.050
PCB_1232	ug/L	0.05	96.8	3.87	<.050
PCB_1242	ug/L	0.05	96.8	3.87	<.050
PCB_1248	ug/L	0.05	96.8	3.87	<.050
PCB_1254	ug/L	0.05	96.8	3.87	<.050
PCB_1260	ug/L	0.05	96.8	3.87	<.050
Atrazine	ug/L	2.3	96.8	3.87	<2.3
Simazine	ug/L	6.7	96.8	3.87	<6.7

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.

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

eceived From:
Marion Oaks Util.
P.O.Box 11179
Ocala,Fl.32673

Date Reported: Apr17 1989

DHRS Lab# : 83139
DER Lab# : EB3018

or: VO/SOC (BY SERIES 500)
ite Received: Mar23 1989 Lab Numbers: 13494-13494

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	13494 2 WELL COMPO.
Alachlor	ug/L	.225	96.8	3.87	<.2250
Metolachlor	ug/L	0.5	96.8	3.87	<0.50
Dicamba	ug/L	0.27	102	2.17	<.270
Dalapon	ug/L	5.7	102	2.17	<5.7
Pichloram	ug/L	0.07	102	2.17	<.070
Dinoseb	ug/L	0.07	102	2.17	<.070
Aldicarb	ug/L	1	106	5.9	<1
Aldicarb_Sulfoxide	ug/L	2	104	3.3	<2
Aldicarb_Sulfone	ug/L	2	109	7.8	<2
Oxamyl	ug/L	2	107	8.4	<2
Carbofuran	ug/L	1.5	99.6	1.1	<1.5

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.

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.

OCALA Bus
904 347 0557

Bus: 407-339-5984
FAX: 407-260-6110

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

MARION OAKS Util

CHAIN OF CUSTODY RECORD

Page ___ of ___

Client: Dalton	Address: P.O. Box 11179 Ocala	Phone: 904-347-0557
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	WhM-Pak Bag		Glass Containers: 40mL Vial	250mL	500mL	1L	2L	4L		NOTES:
6																X							Composit 2 Wells
1																			X		X		

Kit Relinquished:	Date: Time:	Kit Received:	Date: Time:

730

Parameters: VOA SOC

Laboratory Number	Client Identification/Description
13494	water sample (please composite vials)

		Date	Time
Sample Collection:	[signature]	3/22/89	1400
Transportation:			
Lab Acceptance:	[signature]	3/23/89	10:15

will do 3 & 4 please return ASAP

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:
Marion Oaks Util.
****
****

Date Reported: Jun27 1989

DHRS Lab# : 83139
DER Lab# : E83018

For: VOA
Date Received: Jun 8 1989 Lab Numbers: 14035-14035

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14035 COMP. SAMPLE 3&4
Ethylene dibromide	mg/L	-	103	2.3	-
para-dichlorobenzene	mg/L	.001	96.	2.8	<.0010
Vinyl chloride	mg/L	.001	101	2.2	<.0010
1,1,-dichloroethene	mg/L	.001	99.	1.7	<.0010
1,2,-dichloroethane	mg/L	.001	106	1.5	<.0010
,1,1-trichloroethan	mg/L	.001	104	0.9	<.0010
arbon tetrachloride	mg/L	.001	96.	1.3	<.0010
Trichloroethene	mg/L	.001	101	1.4	<.0010
Tetrachloroethene	mg/L	.001	102	4.6	<.0010
Benzene	mg/L	.001	107	4.2	<.0010

Data Release Authorization
ample integrity and reliability certified by Lab personnel prior to analysis.
lethods 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

Marion Oaks
2nd QTR
V 0'5

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6421144
Public Water System Name: MARION OAKS 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___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___; Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

SAMPLE INFORMATION
Sample Date (MMDDYY): 06,08,89
Laboratory Sample Number: 14035
Sample Location (be specific): Wells # 3 & 4
Sample Type (check all applicable):
( ) Check ( ) Regular Distribution (X) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Resample
( ) Special ___
Sampler Name, Title Phone: William L. Vocum
Operations Supv. 904-867-0552

ANALYSIS INFORMATION
Extraction Date ___/___/___
Laboratory Contact: Dr. J.S. Flowers
Resample Requested? (check one) ( ) 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: 6/27/89

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

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

Parameter ID	Name	Sample Number	Location Code	Analysis Result(mg/L)	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	14035		<0.000005	EPA504.1	0.000005	6/23/89
2969	Para-dichlorobenzene	14035		<0.001	EPA502.2	0.001	6/23/89
2976	Vinyl chloride	14035		<0.001	EPA502.2	0.001	6/23/89
2977	1,1,-dichloroethene	14035		<0.001	EPA502.2	0.001	6/23/89
2980	1,2,-dichloroethane	14035		<0.001	EPA502.2	0.001	6/23/89
2981	1,1,1-trichloroethane	14035		<0.001	EPA502.2	0.001	6/23/89
2982	Carbon tetrachloride	14035		<0.001	EPA502.2	0.001	6/23/89
2984	Trichloroethene	14035		<0.001	EPA502.2	0.001	6/23/89
2987	Tetrachloroethene	14035		<0.001	EPA502.2	0.001	6/23/89
2990	Benzene	14035		<0.001	EPA502.2	0.001	6/23/89

Comments:

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

3rd QTR
Duplicate
VOA

Received From:

Marion Oaks
PO Box 11179
Ocala,FL 32673

Date Reported: Sep21 1989
PO Number: MARION OAKS

DHRS Lab# : 83139
DER Lab# : E83018

For: VOA
Date Received: Sep14 1989 Lab Numbers: 14319-14319

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	WELLS 3&4 14319
Ethylene dibromide	mg/L	-	101	1.10	<.000005
Para-dichlorobenzene	mg/L	.001	95.3	2.96	<.0010
Vinyl chloride	mg/L	.001	98.2	2.83	<.0010
1,1,-dichloroethene	mg/L	.001	108	8.32	<.0010
1,2,-dichloroethane	mg/L	.001	100	0.64	<.0010
1,1,1-trichloroethan	mg/L	.001	97.4	1.60	<.0010
Carbon tetrachloride	mg/L	.001	98.8	0.74	<.0010
Trichloroethene	mg/L	.001	107	4.76	<.0010
Tetrachloroethene	mg/L	.001	102	1.24	<.0010
Benzene	mg/L	.001	92.9	4.33	<.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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6421144
Public Water System Name: MARION OAKS 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___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

SAMPLE INFORMATION
Sample Date (MMDDYY): 09-14-89
Laboratory Sample Number: 14319
Sample Location (be specific): Wells #3 & 4
Sample Type (check all applicable):
( )Check ( )Regular Distribution (X)Composite AT LAB
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw (X)Well ( )Resample
( )Special
Sampler Name, Title Phone: Bill Vocum - Operations Supervisor
904-347-0557

ANALYSIS INFORMATION
Extraction Date ___/___/___
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 9/20/89

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

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

Phone: 407-339-
FAX: 407-260-

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: [illegible] | Address: [illegible] | Phone: 347-[illegible]

Project Name: | Required: Urgent ☐ Routine ☑ Date 9/13/89

Sample Containers	Preservative						Plastic Containers							Glass Containers						NOTES:
QTY	1HNO3	1/2SO4	HCl	Na2S2O3	Zn(C2H3O2)/NaOH	NaOH/AscAcid	60ml	125ml	250ml	500ml	1L	2L	Whirl Pak Bag	40ml Vial	250ml	500ml	1L	2L	4L	
5														X						

Kit Relinquished:	Date: Time:	Kit Received:	Date: Time:

Parameters: TPA 2 wells wells # 7 & 4

We need results by 9/27/89 Please

Laboratory Number	Client Identification/Description
14319	

Sample Collection: [signature] Date 9/13/89 Time [illegible] Am

Transportation: [signature] 9/14/89 10:20

Lab Acceptance:

481 NEWBURYPORT AVE., P.O. BOX 150-587 ALTAMONTE SPRINGS, FLA. 32715-0587

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	14319	.00002	<0.000005	EPA504.1	0.000005	9/20/89
2969	Para-dichlorobenzene	14319	.075	<0.001	EPA502.2	0.001	9/19/89
2976	Vinyl chloride	14319	0.001	<0.001	EPA502.2	0.001	9/19/89
2977	1,1,-dichloroethene	14319	0.007	<0.001	EPA502.2	0.001	9/19/89
2980	1,2,-dichloroethane	14319	0.003	<0.001	EPA502.2	0.001	9/19/89
2981	1,1,1-trichloroethane	14319	0.2	<0.001	EPA502.2	0.001	9/19/89
2982	Carbon tetrachloride	14319	0.003	<0.001	EPA502.2	0.001	9/19/89
2984	Trichloroethene	14319	0.003	<0.001	EPA502.2	0.001	9/19/89
2987	Tetrachloroethene	14319	0.003	<0.001	EPA502.2	0.001	9/19/89
2990	Benzene	14319	0.001	<0.001	EPA502.2	0.001	9/19/89

Comments:

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

4th QTR
1/0
Marion Oaks

eceived From:
Marion Oaks
PO Box 11179
Ocala,FL 32673

Date Reported: Jan 5 1990

Proj Num Marion Oaks
DHRS Lab# : 33139
DER Lab# : E88018

or: WELLS 3&4
ate Received: Dec28 1989 Lab Number : 14685

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14685
Ethylene dibromide	mg/L	0.000005	98.7	0.97	<0.0000050
ara-dichlorobenzene	mg/L	0.001	98.4	2.60	<0.0010
Vinyl chloride	mg/L	0.001	109	7.72	<0.0010
..1,-dichloroethene	mg/L	0.001	98.3	1.47	<0.0010
..2,-dichloroethane	mg/L	0.001	98.2	3.00	<0.0010
..1,1-trichloroethan	mg/L	0.001	96.8	2.48	<0.0010
arbon tetrachloride	mg/L	0.001	95.6	3.21	<0.0010
Trichloroethene	mg/L	0.001	87.8	8.23	<0.0010
Tetrachloroethene	mg/L	0.001	101	2.95	<0.0010
Benzene	mg/L	0.001	95.2	2.87	<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.

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: 6421144
Public Water System Name MARION OAKS
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): 12-28-1989
Laboratory Sample Number: 14685
Sample Location (be specific): Wells # 3 & 4
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: Bill Yocum - Operations Supv - 904-347-0557

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 1/4/90

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)
(PWS029)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L)	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	14685	.00002	<.000005	EPA504.1	.000005	1/3/90
2969	Para-dichlorobenzene	14685	.075	<0.001	EPA502.2	0.001	1/3/90
2976	Vinyl chloride	14685	0.001	<0.001	EPA502.2	0.001	1/3/90
2977	1,1,-dichloroethene	14685	0.007	<0.001	EPA502.2	0.001	1/3/90
2980	1,2,-dichloroethane	14685	0.003	<0.001	EPA502.2	0.001	1/3/90
2981	1,1,1-trichloroethane	14685	0.2	<0.001	EPA502.2	0.001	1/3/90
2982	Carbon tetrachloride	14685	0.003	<0.001	EPA502.2	0.001	1/3/90
2984	Trichloroethene	14685	0.003	<0.001	EPA502.2	0.001	1/3/90
2987	Tetrachloroethene	14685	0.003	<0.001	EPA502.2	0.001	1/3/90
2990	Benzene	14685	0.001	<0.001	EPA502.2	0.001	1/3/90

Comments:

1991
VO & Unregs
for 1st QTR
marion Oaks

V

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6421144
Public Water System Name MARION OAKS UTILITY
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): 10-15-91
Laboratory Sample Number 18078
Sample Location (be specific): Marion Oaks Wells 3, 4 & 6
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: Yocum William - HRPA Supv.
904-347-1265

ANALYSIS INFORMATION
Extraction Date 11/5/91
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 11/6/91

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

resample VOC's due
to addition of well #6.

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	18078	.00002	<.000005	EPA504.1	.000005	10/30/91
2969	Para-dichlorobenzene	18078	.075	<0.001	EPA502.2	0.001	10/21/91
2976	Vinyl chloride	18078	0.001	<0.001	EPA502.2	0.001	10/21/91
2977	1,1-dichloroethene	18078	0.007	<0.001	EPA502.2	0.001	10/21/91
2980	1,2-dichloroethane	18078	0.003	<0.001	EPA502.2	0.001	10/21/91
2981	1,1,1-trichloroethane	18078	0.2	<0.001	EPA502.2	0.001	10/21/91
2982	Carbon tetrachloride	18078	0.003	<0.001	EPA502.2	0.001	10/21/91
2984	Trichloroethene	18078	0.003	<0.001	EPA502.2	0.001	10/21/91
2987	Tetrachloroethene	18078	0.003	<0.001	EPA502.2	0.001	10/21/91
2990	Benzene	18078	0.001	<0.001	EPA502.2	0.001	10/21/91

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	18078		<0.001	EPA502.2	0.001	10/21/91
2212	Dichlorodifluoromethane	18078		<0.001	EPA502.2	0.001	10/21/91
2214	Bromomethane	18078		<0.001	EPA502.2	0.001	10/21/91
2216	Chloroethane	18078		<0.001	EPA502.2	0.001	10/21/91
2218	Trichlorofluoromethane	18078		<0.001	EPA502.2	0.001	10/21/91
2224	trans-1,3,-dichloroprop	18078		<0.001	EPA502.2	0.001	10/21/91
2228	cis-1,3-dichloropropene	18078		<0.001	EPA502.2	0.001	10/21/91
2251	Methyl-tert-butylether	18078		<0.001	EPA502.2	0.001	10/21/91
2380	cis-1,2-dichloroethene	18078		<0.001	EPA502.2	0.001	10/21/91
2408	Dibromomethane	18078		<0.001	EPA502.2	0.001	10/21/91
2410	1,1-dichloropropene	18078		<0.001	EPA502.2	0.001	10/21/91
2412	1,3-dichloropropane	18078		<0.001	EPA502.2	0.001	10/21/91
2414	1,2,3-trichloropropane	18078		<0.001	EPA502.2	0.001	10/21/91
2416	2,2-dichloropropane	18078		<0.001	EPA502.2	0.001	10/21/91
2931	1,2-dibromo-3-chloropr	18078		<0.001	EPA502.2	0.001	10/21/91
2941	Chloroform	18078		<0.001	EPA502.2	0.001	10/21/91
2942	Bromoform	18078		<0.001	EPA502.2	0.001	10/21/91
2943	Bromodichloromethane	18078		<0.001	EPA502.2	0.001	10/21/91
2944	Dibromochloromethane	18078		<0.001	EPA502.2	0.001	10/21/91
2962	p-xylene	18078		<0.001	EPA502.2	0.001	10/21/91
2964	Methylene chloride	18078		<0.001	EPA502.2	0.001	10/21/91
2965	o-chlorotoluene	18078		<0.001	EPA502.2	0.001	10/21/91
2966	p-chlorotoluene	18078		<0.001	EPA502.2	0.001	10/21/91
2967	m-dichlorobenzene	18078		<0.001	EPA502.2	0.001	10/21/91
2968	o-dichlorobenzene	18078		<0.001	EPA502.2	0.001	10/21/91
2978	1,1-dichloroethane	18078		<0.001	EPA502.2	0.001	10/21/91
2979	trans-1,2-dichloroethyle	18078		<0.001	EPA502.2	0.001	10/21/91
2983	1,2-dichloropropane	18078		<0.001	EPA502.2	0.001	10/21/91
2985	1,1,2-trichloroethane	18078		<0.001	EPA502.2	0.001	10/21/91
2986	1,1,1,2-tetrachloroethar	18078		<0.001	EPA502.2	0.001	10/21/91
2988	1,1,2,2-tetrachloroethar	18078		<0.001	EPA502.2	0.001	10/21/91
2989	Chlorobenzene	18078		<0.001	EPA502.2	0.001	10/21/91

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2991	Toluene	18078		<0.001	EPA502.2	0.001	10/21/91
2992	Ethylbenzene	18078		<0.001	EPA502.2	0.001	10/21/91
2993	Bromobenzene	18078		<0.001	EPA502.2	0.001	10/21/91
2995	m-xylene	18078		<0.001	EPA502.2	0.001	10/21/91
2996	Styrene	18078		<0.001	EPA502.2	0.001	10/21/91
2997	o-xylene	18078		<0.001	EPA502.2	0.001	10/21/91

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	18078		<.000001	EPA515	.000001	11/5/91
2036	Oxamyl (Vydate)	18078		<0.002	EPA531	0.002	11/8/91
2037	Simazine	18078		<0.007	EPA505	0.007	11/5/91
2040	Picloram	18078		<0.00007	EPA515	0.00007	11/5/91
2041	Dinoseb	18078		<0.00001	EPA515	0.00001	11/5/91
2043	Aldicarb sulfoxide	18078		<0.002	EPA531	0.002	11/8/91
2044	Aldicarb sulfone	18078		<0.002	EPA531	0.002	11/8/91
2045	Metolachlor	18078		<0.0005	EPA505	0.0005	11/5/91
2046	Carbofuran	18078		<0.001	EPA531	0.001	11/8/91
2047	Aldicarb	18078		<0.002	EPA531	0.002	11/8/91
2050	Atrazine	18078		<0.002	EPA505	0.002	11/5/91
2051	Alachlor (Lasso)	18078		<0.0002	EPA505	0.0002	11/5/91
2065	Heptachlor	18078		<.000005	EPA508	.000005	11/4/91
2356	Aldrin	18078		<0.00007	EPA508	0.00007	11/4/91
2364	Dieldrin	18078		<0.00001	EPA508	0.00001	11/4/91
2440	Dicamba	18078		<0.00001	EPA515	0.00001	11/5/91
2959	Chlordane	18078		<0.00001	EPA508	0.00001	11/4/91
9114	Pentachlorophenol	18078		<0.005	EPA515	0.005	11/5/91

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	Hexachlorocyclopentadien	18078		<0.001	EPA508	0.001	11/5/91
2063	Dioxin	18078		<0.00001	EPA613	0.00001	11/4/91
2262	Isophorone	18078		<0.001	EPA609	0.001	11/1/91
2270	2,4-dinitrotoluene	18078		<0.001	EPA609	0.001	11/1/91
2282	Dimethylphthalate	18078		<0.001	EPA606	0.001	11/1/91
2284	Diethylphthalate	18078		<0.001	EPA606	0.001	11/1/91
2290	Di-n-butylphthalate	18078		<0.001	EPA606	0.001	11/1/91
2294	Butyl benzyl phthalate	18078		<0.001	EPA606	0.001	11/1/91
2298	Bis(2-ethylhexyl)phthal	18078		<0.001	EPA606	0.001	11/1/91
2378	1,2,4-trichlorobenzene	18078		<0.001	EPA612	0.001	11/1/91
2388	PCB 1016	18078		<0.0001	EPA505	0.0001	11/4/91
2390	PCB 1221	18078		<0.0001	EPA505	0.0001	11/4/91
2392	PCB 1232	18078		<0.0001	EPA505	0.0001	11/4/91
2394	PCB 1242	18078		<0.0001	EPA505	0.0001	11/4/91
2396	PCB 1248	18078		<0.0001	EPA505	0.0001	11/4/91
2398	PCB 1254	18078		<0.0001	EPA505	0.0001	11/4/91

2400	PCB 1260	18078		<0.0001	EPA505	0.0001	11/4/91
9089	Dioctylphthalate	18078		<0.001	EPA606	0.001	11/1/91

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	18078		<0.001	EPA604	0.001	11/1/91
9112	2-methyl-4,6-dinitophe	18078		<0.001	EPA604	0.001	11/1/91
9115	Phenol	18078		<0.001	EPA604	0.001	11/1/91
9116	2,4,6-trichlorophenol	18078		<0.001	EPA604	0.001	11/1/91

Comments:

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

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

12/11/91 16 30 M

DRINKING WATER BACTERIOLOGICAL ANALYSIS

Marion Oaks

SYSTEM NAME: SOUTHERN STATES UT. C SYSTEM I.D. NO: 642 1144 SYSTEM PHONE #: 746-7211

ADDRESS: PO BOX 1113 OCALA, FL 32673 COUNTY: MARION DER DISTRICT:

COLLECTOR: RAY VALLEY COLLECTOR PHONE #: 747-2227

SAMPLE SITE (Locality or Subdivision): MARION OAKS

DATE AND TIME COLLECTED: 12/3/91 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 _____ (Specify)
(Check Box)
[X] Distribution
[X] Raw
[ ] 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 #3	—		26534H	1	H		
2	WELL #3 TANK	1.2		26534I		H		
3	WELL #4	—		26534C		A		
4	WELL #4 TANK	1.3		26534D		H		
5	LOT 36 BK 201	0.7		26534E		H		
6	LOT 6 BK 613	0.8		26534F		H		
7	LOT 33 BK 971	0.6		26534G		H		

* 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 650, Jan 91 [Obsolete previous editions which may not be used] [Stock Number: 5740-000-0005-6]

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SOUTHERN STATES UT. C.
PO BOX 1113
OCALA FL 32673

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

REVIEWING OFFICIAL: _____

TITLE: _____

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. 32646
HOMOSASSA, FL. 32646
LAB. ID # 82349 JOHN PURDIN

12/18/91 12:00

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: MARION OAKS SOUTH'S SUBD: UNIT SYSTEM I.D. NO: 6420144 SYSTEM PHONE #: 904-347-[illegible]
ADDRESS: P.O. BOX 11177 OCALA, FL 32622 COUNTY: MARION DER DISTRICT:
COLLECTOR: RAY VAUGHN COLLECTOR PHONE #: 347-[illegible]
SAMPLE SITE (Locality or Subdivision): MARION OAKS
DATE AND TIME COLLECTED: 12/17/91 3:30 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 [x] Raw Repeat Replacement (Check Box) [ ] THTC 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 #6	—		2747		A		
2	WELL #6 SINK	1.2		2748		A		
3	M.G.T.	0.5		2749		A		
4	LOT #6 BK #200 UNIT #2	0.7		2800		A		
5	LOT #9 BK #445 UNIT #4	0.6		2801		A		
6	LOT #9 BK #1025 UNIT #7	0.6		2802	L	A		
7	LOT #11 BK #1162 UNIT #7	0.5		2803	L	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

SOUTHERN STATES UNIT
P.O. BOX 11177
OCALA FL 32673

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

REVIEWING OFFICIAL: _____
TITLE: _____

(Stock Number: 0760-000-0061-8)

Meredith Manor - 330

Seminole County (SSU)

Water

- 1992 FPSC Filing -

Meredith Manor

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	2/91
Organic	2/91
Volatile Organic Chemicals	6/89
	8/89
	11/89
	2/90
Turbidity	2/91
Microbiological	12/91
Radionuclide	2/91
Secondary Contaminants	2/91
Unregulated Contaminants	2/90

April 9, 1991

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

Re: Meridith Manor PWS ID #3590823

Dear Ms. Carrasquillo,

Please find enclosed, results for Volatile Organics, Unregulated Organic Pesticides, Unregulated Base Neutral Extracts and Unregulated Acid Extractables for the above referenced facility.

Please make these analysis reports part of your records. Your cooperation and assistance is greatly appreciated.

Sincerely,

SSU Services

Donald B. Corder
Area Supervisor

cc: Charles Sweat
Ralph Terrero
Frank Sanderson
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar 4 1991
PO Number: 22158
PO Number Meredith Manor
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Feb14 1991 Lab Number : 16301

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16301
Turbidity	NTU	0.05	103	.000	0.77
Arsenic	mg/L	0.0005	99.4	1.39	<0.0005
Barium	mg/L	0.01	103	.509	<0.01
Cadmium	mg/L	0.001	106	.992	<0.001
Chromium	mg/L	0.005	107	.971	<0.005
Fluoride	mg/L	0.05	86.3	.230	0.0506
Lead	mg/L	0.01	109	1.14	<0.01
Mercury	mg/L	0.0002	86.0	2.12	<0.0002
Nitrate(as N)	mg/L	0.01	97.3	.099	0.0577
Selenium	mg/L	0.0005	96.2	1.28	<0.0005
Silver	mg/L	0.005	101	1.81	<0.005
Sodium	mg/L	0.002	101	1.24	6.8
Endrin	mg/L	0.000001	94.8	9.55	<0.000001
Lindane	mg/L	0.000001	96.3	7.78	<0.000001
Methoxychlor	mg/L	0.00001	97.2	2.56	<0.00001
Toxaphene	mg/L	0.0001	100	1.27	<0.0001
2,4-D	mg/L	0.00005	90.9	5.53	<0.00005
2,4,5-TP (Silvex)	mg/L	0.00002	103	1.82	<0.00002
Calcium	mg/L	0.1	106	1.67	39.4
Chloride	mg/L	0.015	97.6	.818	14.3
Carbonate_CaCO3	mg/L	0.1			103.01
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	107	1.06	0.005
Bicarbonate _CaCO3	mg/L	0.1			102.8
Carbonate_Alkalinity	mg/L	0.1			0.3
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***

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar 4 1991
PO Number: 22158
PO Number Meredith Mano
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Feb14 1991 Lab Number : 16301

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16301
Iron	mg/L	0.01	103	.518	0.213
Magnesium	mg/L	0.01	106	.719	8.15
Manganese	mg/L	0.005	102	2.80	0.022
Sulfate	mg/L	0.2	101	1.90	5.5
Zinc	mg/L	0.001	108	.637	0.016
Carbon_Dioxide	mg/L	0.1			6.4
Color	mg/L	5	-	.000	20 Resample & Hicked
Total_Hardness	mg/L	0.1			131.9
NCH_as_CaCO3	mg/L	0.1			28.8
Odor(TON)	TON	1	-	.000	<1
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	101	.389	7.51
Alkalinity	mg/L	0.1	91.6	1.02	103
TDS	mg/L	2.5	98.0	.079	131
Temperature	oC	1			25
Langelier_Index	LX	0.01			-0.32
Saturation_Index	pHs	0.01			7.83
Stability_Index	pH	0.01			8.16
Foaming_Agents	mg/L	0.1	96.9	.000	<0.1
Field Chlorine	mg/L	0.1			-
Gross alpha incl. Ra	pCi/L	1	-	-	<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) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3590823
Public Water System Name Meredith Manor
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_X_;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Numbe For Radiological Parameters: HRS82139

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 16301
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special _____
Sampler Name, Title Phone:_____
_____

ANALYSIS INFORMATION
Extraction Date 2/26/91
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 3/4/91

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

DER /ACPHU Reviewing Offical:

_____

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

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	16301	1	.770	EPA180.1	0.05	2/22/91

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	16301	0.05	<0.0005	EPA206.3	0.0005	2/20/91
1010	Barium	16301	1	<0.1	EPA208.1	0.01	2/21/91
1015	Cadmium	16301	0.01	<0.001	EPA213.1	0.001	2/21/91
1020	Chromium	16301	0.05	<0.005	EPA218.1	0.005	2/21/91
1025	Fluoride	16301	4	.0506	EPA340.1	0.05	2/19/91
1030	Lead	16301	0.05	<0.001	EPA239.1	0.01	2/20/91
1035	Mercury	16301	0.002	<0.0002	EPA245.1	0.0002	2/28/91
1040	Nitrate(as N)	16301	10	.0577	EPA353.1	0.01	02-20-91
1045	Selenium	16301	0.01	<0.0005	EPA270.3	0.0005	2/25/91
1050	Silver	16301	0.05	<0.005	EPA272.1	0.005	2/22/91
1052	Sodium	16301	160	6.80	EPA273.1	0.002	2/20/91

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	16301	0.0002	<.000001	EPA508	.000001	2/26/91
2010	Lindane	16301	0.004	<.000001	EPA508	.000001	2/26/91
2015	Methoxychlor	16301	0.1	<0.00001	EPA508	0.00001	2/26/91
2020	Toxaphene	16301	0.005	<0.0001	EPA508	0.0001	2/26/91
2105	2,4-D	16301	0.1	<0.00005	EPA515	0.00005	2/27/91
2110	2,4,5-TP (Silvex)	16301	0.01	<0.00002	EPA515	0.00002	2/27/91

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	16301		39.4	EPA215.1	0.1	2/19/91
1017	Chloride	16301	250	14.3	EPA300.0	0.015	02-18-91
1019	Carbonate CaCO3	16301		103.1	SM314A	0.1	2/19/91
1021	Hydroxide CaCO3	16301		0.0	SM406C	0.1	2/19/91
1022	Copper	16301	1	.00500	EPA220.1	0.005	2/19/91
1023	Bicarbonate CaCO3	16301		102.8	SM406C	0.1	2/19/91
1026	Carbonate Alkalinity	16301		0.3	SM406C	0.1	2/19/91

1027	Hydrogen Sulfide	16301			EPA376.1	0.5		
1028	Iron	16301	0.3	.213	EPA236.1	0.01	2/18/91	
1031	Magnesium	16301		8.15	EPA242.1	0.01	2/19/91	
1032	Manganese	16301	0.05	.0220	EPA243.1	0.005	2/21/91	
1055	Sulfate	16301	250	5.50	EPA300.0	0.200	2/26/91	
1095	Zinc	16301	5	.0160	EPA289.1	0.001	2/22/91	
1901	Carbon Dioxide	16301		6.4	SM406C	0.1	2/19/91	
1905	Color	16301	15	20.0	EPA110.1	5	2/21/91	- Recomplete & Hached
1915	Total Hardness	16301		131.9	SM314A	0.1	2/19/91	
1917	NCH as CaCO3	16301		28.8	SM314A	0.1	2/19/91	
1920	Odor(TON)	16301	3	<1	EPA140.1	1	2/21/91	
1924	Field pH	16301	6.5-8.5	7.5	EPA150.1	0.01		
1925	Lab pH	16301	6.5-8.5	7.51	EPA150.1	0.01	2/20/91	
1927	Alkalinity	16301		103	EPA310.1	0.1	2/21/91	
1930	TDS	16301	500	131	EPA160.1	2.5	2/19/91	
1996	Temperature	16301		25	-		1 2/19/91	
1997	Langelier Index	16301	-0.2:+0.2	-0.32	SM203	0.01	2/19/91	
1998	Saturation Index	16301		7.83	SM203	0.01	2/19/91	
1999	Stability Index	16301		8.16	SM203	0.01	2/19/91	
2909	Foaming Agents	16301	0.5	<0.1	EPA425.1	0.1	2/26/91	
	Field Chlorine	16301		1.5	-	0.1		
	Field Conductivity			146				
	Field DO			11				
	Field Temp (C)			23.9				

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	16301	5	0.7	EPA900	1	3/5/91

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab [illegible]
FDHRS Lab [illegible]
NCDEHNR Lab [illegible]
SCDHEC Lab [illegible]

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-950

Dan Coder

(1) Client: Southern States | (2) Address: 1000 Color Place | (3) Phone: 880-0058 ext 148

(4) Public Drinking Water ID #: 3590823 | (5) Public Water System Name: Meredith Manor

(6) Project #: Miscellaneous | (8) Public Water System Type: [X] Community [ ] Non-Community [ ] Special Non-Community

(7) PO#: 22158

(9)	Preservative: HNO3	ZnOAc/NaOH	Plastic Containers: 60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	Glass Containers: 40ml	250ml	500ml	1L	2L	4L
	✓											✓		
							✓							
	✓													
						✓								

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

12) SAMPLE INFORMATION; SAMPLE DATE: MONTH Feb DATE 14 YEAR 91

SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution ( ) composite, ( ) clearance, ( ) max residence time, [X] plant tap, ( ) raw, ( ) well, ( ) resample _____, ( ) special _____

SAMPLER'S NAME: Frank McCord TITLE: Oper. Tech PHONE: 880-0058

SAMPLER'S SIGNATURE: Frank McCord

NOTES:

Sample 9:30 Am

Cl2 1.5
pH 7.5
DO 11 mg/L
Temp 76° F
Conductivity 146

#5102

1 sample

(13) Parameter Group(s) Analysed: 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 ;

(14) Laboratory Number	(15) Client Sample Identification
16301	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	Frank McCord	2-14-91	9:30 a.m
(17) Transporters Signature:	Jane Johnson	2/14/91	11:00 Am
(19) Lab Acceptance By:		2/14/91	1:55

OVER FOR INSTRUCTIONS FOR COMPLETION

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 # : 91-03-139
Date Received: 03/12/91
Date Reported: 03/19/91
OLI Contact: L_BALTZLEY

Work ID: Meredith Manor Water System
Total Samples: 3

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 1	COLOR Color
02 2	
03 3	

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 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 03/12/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-03-139

SAMPLE ID 1	SAMPLE # 01A
DATE COLLECTED 03/11/91 14:45:00	MATRIX WATER

COLOR	<5.0	PCU

SAMPLE ID 2	SAMPLE # 02A
DATE COLLECTED 03/12/91 12:50:00	MATRIX WATER

COLOR	<5.0	PCU

SAMPLE ID 3	SAMPLE # 03A
DATE COLLECTED 03/13/91 11:00:00	MATRIX WATER

COLOR	<5.0	PCU

Southern States Utilities
Attn: Don Corder

Report No: 91-03-139
Page No: 3

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Color	<1	N/A	03/13/91	PE/JN

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	3 OLI WORK ORDER # (LAB USE)
S.S.U SERVICE		DON COOPER	9103139
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL)	**ADDRESS (CITY, STATE, ZIP)**	**5 CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
S.S.U SERVICE			
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: Color	REMARKS 19
1	3.11.91 1145								✓	
2	3/2.91 1250								✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Fred Mcard	3/12 1:30 pm	Deedee Homan
2nd			
3rd			

20 ADDITIONAL REMARKS

COOLER #'s 21

22 SAMPLER'S SIGNATURE: Fred Mcard

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0200

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	3 OLI WORK ORDER # (LAB USE)
S.S.U. SERVICE		DON CONDER	9103139
4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL)	**ADDRESS (CITY, STATE, ZIP)**	**5 CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
S.S.U. SERVICE			
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: Color	19 REMARKS
3	7-13-91 11:00am								✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	7/13/91 11:00am	[signature]
2nd			
3rd			

ADDITIONAL REMARKS: Add To above WO #9103139

20 COOLER #s

[signature]
22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE

0201

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

Invoice #: 54658
Lab Work Order #: 89-06-117
Date received: 06-12-89
Date reported: 06-29-89
OLI Contact: Joyce Casper
Total Pages: 6

Sampling information is based on data supplied by client.

TYPE OF SAMPLE: Water
LOCATION: Meridith Manor
SAMPLE ID: 01 Composite Sample (#1 Well & #2 Well) ~~Confirm~~ 1st
02 Method Blank

Test Codes and Names used on this report:

504R EDB
524R DER 17-550 Regulated Volatiles

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.

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

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Declan Cowley
LABORATORY MANAGER

Charlene Hoyt
DATA ANALYST

RLM

The Analytical Specialists

SAMPLE ID Composite #1 FRACTION 01A TEST CODE 504R NAME EDB
Date & Time Collected 06/12/89 10:30:00 Category WATER

SAMPLE TYPE WATER
UNITS UG/L
ANALYST RAM

DATE EXTRACTED 06/12/89
DATE RUN 06/15/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT	FLAG
EDB	.02	U

Orlando Lab. REPORT
Results by Sample

Work Order # 89-06-117

SAMPLE ID Composite #1 FRACTION 01A TEST CODE 524R NAME DER 17-550 Regul volatiles
Date & Time Collected 06/12/89 10:30:00 Category WATER

SAMPLE TYPE WATER
UNITS UG/L
ANALYST TCP

DATE EXTRACTED NA
DATE RUN 06/16/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT	FLAG
p-Dichlorobenzene	4	
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)	84
Toluene-d8 (SS2)	104
Bromofluorobenzene (SS3)	103

SAMPLE ID Method Blank FRACTION 02A TEST CODE 504R NAME EDB
Date & Time Collected not specified Category METHODBLANK

SAMPLE TYPE WATER
UNITS UG/L
ANALYST RAM

DATE EXTRACTED 06/12/89
DATE RUN 06/15/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT	FLAG
EDB	.02	U

SAMPLE ID Method Blank FRACTION 02A TEST CODE 524R NAME DER 17-550 Regul volatiles
Date & Time Collected not specified Category METHODBLANK

SAMPLE TYPE WATER
UNITS UG/L
ANALYST TCP

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)	82
Toluene-d8 (SS2)	107
Bromofluorobenzene (SS3)	100

Southern States Utilities
Attn: Aaron Perlowich

Invoice #: 54658
Lab Work Order #: 89-06-117

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Ethylene Dibromide	4	51/53	06-12-89	J.W.
1,1-Dichloroethene	8	54/50	06-26-89	J.B.
Trichloroethene	7	118/110	06-26-89	J.B.
Benzene	6	104/98	06-26-89	J.B.
Toluene	19	68/82	06-26-89	J.B.
Chlorobenzene	7	106/114	06-26-89	J.B.

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

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

NO 00764

INVOICE TO: Southern States Util	ADDRESS: 1000 Color. Plaze Apopka FL 32703	CONTACT/PHONE #: (407) 331-3350	OLI WORK ORDER #: 8906117
REPORT TO: Arvind Parkavich	ADDRESS: 1000 Color Plaze Apopka FL. 32703		RB NUMBER: 1745
CLIENT PROJECT NAME: Heritage Manor c/o Southern States Util.	CLIENT PROJECT #:		
CLIENT PROJECT LOCATION:			

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: SOAK	SOAK	REMARKS
	#1 Well	6-12	1030		✓	✓			6	X	X	
	#2 Well	6-12	1030		✓	✓			6	X	X	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	James Johnson	6/12/89 3:15 pm		6/12/89 3:20

ADDITIONAL REMARKS:

James Johnson
SAMPLER'S SIGNATURE

Rev 03/89

Original - Client
Yellow - Lab

0208

Southern States Utilities, Inc.

1000 COLOR PLACE
APOPKA FLORIDA 32703

TELEPHONE 407-880-0100
TOLL FREE 1-800-432-4501

August 28, 1989

Mr. Paul J. Morrison
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Re: Meredith Manor Water Plant
PWS ID Number 3590823
P-dichlorobenzene Resampling

Dear Mr. Morrison:

Enclosed you will find the resampling for the 1st Qtr. ~~2nd Qtr.~~ p-dichlorobenzene concentration analysis for the above plant.

Please make your appropriate recordings. Thank you for your cooperation.

Sincerely,
SOUTHERN STATES UTILITIES, INC.

Aaron Perlowich
Sr. East Central Region Manager

AP/at

cc: Charles Sweat
Engineering Dept.

Don Corder
File

Florida Department of Environmental Regulation
Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555
Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

August 10, 1989

Southern States Utilities
1000 Color Place
Apopka, FL 32703

OCD-PW-89-0582

Attention: Mr. Aaron Perlowich

Seminole County - PW
Meredith Manor
PWS ID Number 3590823

Dear Mr. Perlowich:

This will confirm receipt of copies of volatile organic contaminants analysis results collected on June 12, 1989 from the wells and performed by Orlando Laboratories.

The concentration of p-dichlorobenzene was determined to be 4 ug/l. In view of this result and pursuant to Rule 17-550.510(4)(a)5, Florida Administrative Code, you are required to initiate and complete two (2) additional analyses for p-dichlorobenzene (collected from the same sampling points with no compositing of samples in the laboratory) within one month.

Samples shall be collected and submitted to an approved laboratory and this department notified of the date of submittal and laboratory name no later than fourteen (14) days from the date of this letter. You must submit a copy of the laboratory results to this office upon your receipt of such from the laboratory.

If you have any questions, please call Ms. Marie Carrasquillo at (407)894-7555.

Your continued cooperation in our drinking water program will be appreciated.

Sincerely,

for Paul J. Morrison, Section Supervisor
Drinking Water Compliance/Enforcement

PJM:mc/mg

cc: Seminole County Health Department

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 # : 89-08-198
Date Received: 08/19/89
Date Reported: 08/24/89
OLI Contact: E_HOBBS

Work ID: 330 Meridith Manor
Total Samples: 4

Sampling information is based on data supplied by Client Resample

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Well #1	524R DER 17-550 Regulated VOA
02 Well #2	
03 Method Blank	
04 Trip Blank	

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 M. Lkask
Susan Lukasik
QUALITY CONTROL

The Analytical Specialists

Orlando Laboratories,Inc.
Received: 08/19/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-198

SAMPLE ID Well #1
DATE COLLECTED 08/19/89 08:30:00
TEST NAME OER 17-550 Regulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE EDJR

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJF

DATE EXTRACTED NA
DATE RUN 8/21/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT	QUALIFIER
p-Dichlorobenzene	0.5	U
1,1-Dichloroethene	0.5	U
Trichloroethene	1.2	
Tetrachloroethene	0.5	U
Carbon Tetrachloride	0.5	U
Vinyl Chloride	0.5	U
1,1,1-Trichloroethane	0.5	U
1,2-Dichloroethane	1.2	
Benzene	0.5	U

SURROGATE		RECOVERY
Dibromofluoromethane	(DBF)	94
Toluene-d8	(TOL)	94
Bromofluorobenzene	(BFB)	96

Orlando Laboratories,Inc.
Received: 08/19/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-198

SAMPLE ID Well #2
DATE COLLECTED 08/19/89 08:50:00
TEST NAME DER 17-550 Regulated VOA

SAMPLE# 02A
MATRIX WATER
TEST CODE EJP

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 8/21/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT	QUALIFIER
o-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)	96
Toluene	(TOL)	95
p-Bromofluorobenzene	(BFB)	93

Orlando Laboratories,Inc.
Received: 07/19/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-06-138

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OEP 17-550 Regulated VOA

SAMPLE# VOA
MATRIX METHODBLANK
TEST CODE EJP

DATE EXTRACTED NA
DATE RUN 6/21/89
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

	RESULT	QUALIFIER
p-Dichlorobenzene	0.5	U
1,2-Dichloroethene	0.5	U
Trichloroethene	0.5	U
Tetrachloroethene	0.5	U
Carbon Tetrachloride	0.5	U
Vinyl Chloride	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U
1,1,2-Trichloroethane	0.5	U
Benzene	0.5	U

SURROGATE	%RECOVERY
1,2-Dichloroethane-d4 (SS1)	106
Toluene-d8 (SS2)	95
4-Bromofluorobenzene (SS3)	92

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-22-1989

LAB SAMPLE # : 8908198-2
ANALYSIS DATE : 8/21/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	52	104	47	94	10
trichloroethene	50	0	53	106	50	100	6
benzene	50	0	54	108	50	100	8
toluene	50	0	53	106	52	104	2
chlorobenzene	50	0	53	106	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

End of Report

ORLANDO LABORATORIES, INC.
P.O. Box 549127 Orlando FL 32854
(407) 896 6645 FAX (407) 898 6588

CHAIN-OF-CUSTODY RECORD

Page .. of .... Nº 011681

REPORT TO: Southern States Util. (Don Cordine)
ADDRESS: 1000 Color Place Apopka Fla 32703 c/o Don Cordine
CONTACT/PHONE #: 880-0100
OLI WORK ORDER #: 8408198
REPORT TO: Southern States Util.
ADDRESS: SAME
PO NUMBER:
CLIENT PROJECT NAME: Meridith Manor
CLIENT PROJECT # 330
CLIENT PROJECT LOCATION: Meridith Manor @ Computed Treatment

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: 504	REMARKS
	Well #1	8/19/89	8:30						2	✓	
	Well #2	8/19/89	8:30						2	✓	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	James Johnson	8/19/89 945 AM	[illegible]	8/19 945

ADDITIONAL REMARKS:

James Johnson
SAMPLER'S SIGNATURE

Rev 03 89

Original Client

0216

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

RECEIVED AUG 2 5 1989

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 89-08-195
Date Received: 08/18/89
Date Reported: 08/24/89
OLI Contact: E_HOBBS

Work ID: 330 Meridith Manor
Total Samples: 3

Sampling information is based on data supplied by Client

Resample

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Well #1	524R DER 17-550 Regulated VOA
02 Well #2	
03 Method Blank	

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 M. Lukasik
Susan Lukasik
QUALITY CONTROL

The Analytical Specialists

Orion Laboratories, Inc.
Received: 08/18/99

REPORT OF ANALYSIS
Results by Sample

Work Order # 99-08-135

SAMPLE ID Well #1
DATE COLLECTED 08/18/99 14:15:00
TEST NAME DEF 17-550 Regulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 624R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJB

DATE EXTRACTED NA
DATE RUN 8/18/99
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

SURROGATE		%RECOVERY
[illegible]	DCE	95
[illegible]	BCE	106
[illegible]	DFB	92

Orlando Laboratories,Inc.
Received: 08/18/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 19-[illegible]-05

SAMPLE ID Well #2
DATE COLLECTED 08/18/89 14:15:00
TEST NAME OEP 17-550 Regulated VOA

SAMPLE# 02A
MATRIX WATER
TEST CODE 5210

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 3/18/89
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)	114
Toluene-d8 (TOL)	109
Bromofluorobenzene (BFB)	102

Received: 6/13/89

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
DATE COLLECTED Not specified
TEST NAME CLP 1/87-550 Regulated VOA

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 8240

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 6/13/89
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-D4 (DCE)	101
Toluene-D8 (TOL)	98
Bromofluorobenzene (BFB)	98

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-21-1989

LAB SAMPLE # : 8908186-2
ANALYSIS DATE : 8/18/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	45	90	44	88	2
trichloroethene	50	0	55	110	51	102	8
benzene	50	0	52	104	52	104	0
toluene	50	0	57	114	56	112	2
chlorobenzene	50	0	58	116	52	104	11

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 1 of 1 Nº 01787

INVOICE TO: Southern States Util
ADDRESS: 1000 Cobra Place Apopka FLA 32703
CONTACT/PHONE #: 880-0100
OLL WORK ORDER #: 8908195
REPORT TO: Southern States Util
ADDRESS: SAME
AB NUMBER: 2182 EH
CLIENT PROJECT NAME: Meridith Manor
CLIENT PROJECT #: 330
CLIENT PROJECT LOCATION: Meridith Manor @ Longwood Treatment

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: 524	REMARKS
	Well #1	8/18	2:15						2	✓	
	Well #2								2	✓	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	James Johnson	3:15 p.m. 8/18/89	J Cooper	8/18/89 1530

ADDITIONAL REMARKS:

SAMPLER'S SIGNATURE: James Johnson

Rev 03 89

Original - Client
Yellow - Lab

0222

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: Meridith Manor Water Plant
Seminole County
VOC's - 3rd Quarter.

Dear Ms. Carrasquillo:

Enclosed you will find results for the ~~3rd~~ 2nd Quarter VOC analysis for the above plant. Please enter this in your records.

Thank you for your cooperation.

Sincerely,
SOUTHERN STATES UTILITIES, INC.

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

RECEIVED AUG 3 1 1989

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 89-08-278
Date Received: 08/25/89
Date Reported: 08/30/89
OLI Contact: E_HOBBS

Work ID: 330 Meridith Manor
Total Samples: 4

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Well #1	504R EDB
02 Well #2	524R DER 17-550 Regulated VOA
03 Trip Blank	
04 Method Blank	

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 M. Lkiask
Susan Lukasik
QUALITY CONTROL

The Analytical Specialists

[illegible] Laboratories, Inc.
Received: 08/25/89

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]

SAMPLE ID: Well #1
DATE COLLECTED: 08/24/89 05:30:00
TEST NAME: EDB

SAMPLE#: [illegible]
MATRIX: WATER
TEST CODE: 504A

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: JHU

DATE EXTRACTED: 08/25/89
DATE RUN: 08/29/89
DILUTION FACTOR: 1
% MOISTURE: NA

	RESULT/QUALIFIER
EDB	0.21

Orlando Laboratories,Inc.
Received: 08/25/89

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]

SAMPLE ID Well #1
DATE COLLECTED 08/24/89 05:30:00
TEST NAME DER 17-550 Regulated VOA

SAMPLE # NA
MATRIX WATER
TEST CODE 524P

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 8/25/89
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

SURROGATE	%RECOVERY
1,2-Dichloroethane-d4 (S1)	106
Toluene-d8 (S2)	104
Bromofluorobenzene (S3)	99

[illegible] Laboratories, Inc.
Received: 08/25/89

REPORT OF ANALYSIS
Results by Sample

[illegible]

SAMPLE ID: well #2
DATE COLLECTED: 08/24/89 05:45:00
TEST NAME: EDB

SAMPLE #: [illegible]
MATRIX: WATER
TEST CODE: 504B

DATE EXTRACTED: 08/25/89
DATE RUN: 08/29/89
DILUTION FACTOR: 1
% MOISTURE: NA

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: JHN

RECOVERY QUALIFIERS
EDB: [illegible]

[illegible] Laboratories, Inc.
Received: 08/25/89

REPORT OF ANALYSIS
Results by Sample

[illegible]

SAMPLE ID Well #2
DATE COLLECTED 08/24/89 05:45:00
TEST NAME DER 17-550 Regulated VOA

SAMPLE# [illegible]
MATRIX WATER
TEST CODE [illegible]

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 8/25/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
[illegible]benzene	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-d4	86
Toluene-d8	107
4-Bromofluorobenzene	89

Accutest Laboratories, Inc.
Reviewed: 9/25/99

REPORT OF ANALYSIS
Results by Sample

Work Order #: [illegible]

SAMPLE ID: Method Blank
DATE COLLECTED: not specified
TEST NAME: EDB

SAMP ID#: 04H
MATRIX: METHODBLANK
TEST CODE: EDAR

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: JHW

DATE EXTRACTED: 08/25/99
DATE RUN: 08/28/99
DILUTION FACTOR: 1
% MOISTURE: NA

	RESULT	QUALIFIER
EDB	0.05	U

[illegible] Laboratories,Inc.
Received: 08/25/89

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]

SAMPLE ID: Method Blank
DATE COLLECTED: not specified
TEST NAME: OER 17-550 Regulated VOA

SAMPLE#: MB
MATRIX: METHOD BLANK
TEST CODE: 8240

SAMPLE TYPE: WATER
UNITS: UG/L
ANALYST: EJF

DATE EXTRACTED: NA
DATE RUN: 8/25/89
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

SURROGATE	%RECOVERY
1,2-Dichloroethane-d4	93
Toluene-d8	105
Bromofluorobenzene	99

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-29-1989

LAB SAMPLE # : 8908261-01A
ANALYSIS DATE : 08/28/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ETHYLENE DIBROMIDE	100	0	91	91	91	91	0

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ETHYLENE DIBROMIDE	47	92	15	47	92	28

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-29-1989

LAB SAMPLE # : 8908278-2
ANALYSIS DATE : 8/25/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	55	110	44	88	22 *
trichloroethene	50	0	50	100	46	92	8
benzene	50	0	53	106	53	106	0
toluene	50	0	53	106	48	96	10
chlorobenzene	50	0	51	102	49	98	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

End of Report

ORLANDO LABORATORIES, INC.
P.O. Box 149127 Orlando FL 32814
(407) 896 6645 FAX (407) 898 6988

CHAIN-OF-CUSTODY RECORD

Page 1 of 1 № 01121

REPORT TO	ADDRESS 1000 Color Place Apopka, Fla 32703	CONTACT/PHONE # 880-0100	OLI WORK ORDER # 8908278
INVOICE TO c/o Don Carlton Southern States	ADDRESS 1000 Color Place Apopka Fla 32703		RB NUMBER 1979
CLIENT PROJECT NAME Meridith Manor Treatment Plant	CLIENT PROJECT # 330 Meridith		
CLIENT PROJECT LOCATION Longwood Florida Ft Mc Branthey Rd.			

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS 504 504	REMARKS
	Well #1	8/24/89	5:30						2	✓ ✓	
	Well #1	11	5:35						2	✓	
	Well #2	8/24/89	5:45						2	✓ ✓	
	Well #2	8/24/89	5:50						2	✓	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	James Johnson	8/25/89 1:45	Michael E Pattison	8/25/89 13:45

ADDITIONAL REMARKS

SAMPLER'S SIGNATURE James Johnson

Original - Client
Yellow - Lab

Rev 03 89

0233

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: Meredith Manor Water Plant, Seminole County, ID# 3590823

Dear Ms. Carrasquillo,

Please find attached results for the Third Quarter "EDB" analysis, and Volatile organic analysis for the above mentioned plant. Please enter this in your records.

Thank you for your cooperation.

Sincerely,
SOUTHERN STATES UTILITIES, INC.

Donald B. Corder

Don Corder,
Area Supervisor

DC/cd
cc: Aaron Perlowich
Engineering
file

enclosure (as stated)

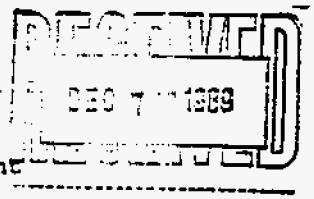
ORLANDO LABORATORIES INC

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 # : 89-11-304
Date Received: 11/29/89
Date Reported: 12/05/89
OLI Contact: E_HOBBS

Work ID: 330 Meridith Manor Plant
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 17-550 "EDB" Analysis
02 Trip Blank	524R DER 17-550 Regulated VOA's
03 Method Blank	

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

ORLANDO LABORATORIES,INC.
Received: 11/29/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-304

SAMPLE ID Comp #1
DATE COLLECTED 11/28/89 16:30:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 11/29/89
DATE RUN 12/01/89
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

SPLANDS LABORATORIES, INC.
Received: 11/29/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-304

SAMPLE ID Comp #1
DATE COLLECTED 11/28/89 16:30:00
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 11/30/89
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
2959	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: 11/29/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-304

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 RAB

DATE EXTRACTED 11/29/89
DATE RUN 12/01/89
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: 11/29/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-11-304

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DEP 17-550 Regulated VOA's

SAMPLE# 03A
MATRIX METHODBLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 11/30/89
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

ORLANDO LABORATORIES,INC.
Received: 11/29/89

REPORT OF ANALYSIS
NonReported Work

Work Order # 89-11-304

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 : 12-04-1989

LAB SAMPLE # : 8911304-1
ANALYSIS DATE : 11/30/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	49	98	51	102	4
trichloroethene	50	0	46	92	47	94	2
benzene	50	0	53	106	55	110	4
toluene	50	0	57	114	54	108	5
chlorobenzene	50	0	50	100	52	104	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 : 12-04-1989

LAB SAMPLE # : 8911295-01a
ANALYSIS DATE : 12/01/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ETHYLENE DIBROMIDE	100	0	67	67	71	71	6

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ETHYLENE DIBROMIDE	56	133	20	50	130	25

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 1 of 3 № 02608

INVOICE TO: Southern States Util	ADDRESS: % 1000 Color Place Apopka FL	CONTACT/PHONE #: 880-0100	OLI WORK ORDER #: 8911304
REPORT TO: Aaron Perlowich	ADDRESS: Same		RB NUMBER: 139
CLIENT PROJECT NAME: DER Requir (36th. VOC)	CLIENT PROJECT #: #330		
CLIENT PROJECT LOCATION: Meredith Manor Plant			

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: 504R	REQUESTED ANALYSIS: 524R	REMARKS
	#1 Well	11/28	4:30		✓	✓				X	X	
	#2 Well	11/28	4:45		✓	✓				X	X	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	James Johnson	11/29/89 1:30 PM	N. Rutland	11-29-89 1130 AM

ADDITIONAL REMARKS:

SAMPLER'S SIGNATURE: James Johnson

Original - Client
Yellow - Lab

Rev 01 89

0243

SSU SERVICES
1000 Color Place
Apopka, Florida 32703
407-880-0058

Serving the customers of Citrus Springs, Deltona, Marco Island, Marion Oaks, Pine Ridge, St. Augustine Shores, Seaboard, Southern States, Spring Hill, Sunny Hills and Venice Gardens utilities.

February 26, 1990

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd., Suite 232
Orlando, FL 32703

Re: Meredith Manor Water Treatment PLant, Seminole County,
ID# 3590823

Dear Ms. Carrasquillo,

Please find enclosed results for the Fourth Quarter sampling for the above mentioned plant. Please enter this information in your records.

Thank you for your cooperation.

Sincerely,
SOUTHERN STATES UTILITIES, INC.

Donald B. Corder

Don Corder,
Area Supervisor

DC/cd
cc: Aaron Perlowich
Engineering
file

enclosure (as stated)

SSU EL

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

RECEIVED
FEB 22 1990

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-02-080
Date Received: 02/06/90
Date Reported: 02/16/90
OLI Contact: E_HOBBS

Work ID: Meridith Manor Water Plant (44 Qtr)
Total Samples: 4

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Well #1	504R 17-550 "EDB" Analysis
02 Well #2	504U 17-550 "DBCP" Analysis
03 Trip Blank	524R DER 17-550 Regulated VOA's
04 Method Blank	524U DER 17-550 Unregulated VOA
	531U DER 17-550 Unreg Pest 531s
	608U DER 17-550 Unreg Pest 608s
	515U 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 [illegible] Identification Numbers are:
Drinking Water Certification [illegible] Environmental Certification Number E87933

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Victor Kowalski
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

The Analytical Specialists

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 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 02/08/90
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(D)
(PWS028)

Parameter ID	Name	Analysis Result		Det. Lt.
3946	Ethylene dibromide	0.02	U	0.02

DPL-HCG LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/05/90 14:00:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504D

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/06/90
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410 1P
(PNCOE)

Parameter ID	Name	Analysis Result	Det. Lt.
2931	1,2-dibromo-3-chloropropane	<0.02 U	0.02

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 14:00:00
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 2/9/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PWS028)

Parameter ID	Name	Analysis Result		Det. Lt.
2963	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

ORGANIC LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 14:00:00
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 01A
MATRIX WATER
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/8/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.41[illegible] 17
(PWS)E4

Parameter ID	Name	Analysis Result		Det. Lt.
2210	Chloromethane	[illegible]	U	0.5
2212	Dichlorodifluoromethane	[illegible]	U	0.5
2214	Bromomethane	[illegible]	U	0.5
2216	Chloroethane	[illegible]	U	0.5
2218	Trichlorofluoromethane	[illegible]	U	0.5
2224	trans-1,3-Dichloropropene	[illegible]	U	0.5
2229	cis-1,3-Dichloropropene	[illegible]	U	0.5
2251	Methyl tert-butyl ether	[illegible]	U	0.5
2260	cis-1,2-Dichloroethene	[illegible]	U	0.5
2408	Dibromomethane	[illegible]	U	0.5
2410	1,1-Dichloropropene	[illegible]	U	0.5
2412	1,1-Dichloropropane	[illegible]	U	0.5
2414	1,1,2-Trichloroethane	[illegible]	U	0.5
2416	2,2-Dichloropropane	[illegible]	U	0.5
2418	Chloroform	[illegible]	U	0.5
2420	Bromoform	[illegible]	U	0.5
2422	Bromodichloromethane	[illegible]	U	0.5
2424	Dibromochloromethane	[illegible]	U	0.5
2426	Benzene	[illegible]	U	0.5
2428	Methylene Chloride	[illegible]	U	0.5
2430	m-Chlorotoluene	[illegible]	U	0.5
2432	o-Chlorotoluene	[illegible]	U	0.5
2434	meta-Dichlorobenzene	[illegible]	U	0.5
2436	Ortho-Dichlorobenzene	[illegible]	U	0.5
2438	1,1,2-Trichloroethane	[illegible]	U	0.5
2440	trans-1,2-Dichloroethene	[illegible]	U	0.5
2442	1,2-Dichloropropane	[illegible]	U	0.5
2444	1,1,2-Trichloroethene	[illegible]	U	0.5
2446	1,1,1,2-Tetrachloroethane	[illegible]	U	0.5
2448	1,1,2,2-Tetrachloroethane	[illegible]	U	0.5
2450	Toluene	[illegible]	U	0.5

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080
Continued From Above

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 14:00:00
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

CRL-NDG LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID: Well #1
DATE COLLECTED: 02/06/90 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 02/07/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550),410-1)
PWSOIS

Parameter ID	Name	Analysis Result		Det. Lt.
2026	Oxamyl (Vydate)	[illegible]	U	[illegible]
2043	Aldicarb Sulfoxide	[illegible]	U	[illegible]
2044	Aldicarb Sulfone	[illegible]	U	[illegible]
2046	Carbofuran	[illegible]	U	[illegible]
2047	Aldicarb	[illegible]	U	[illegible]

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 14:00:00
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 02/07/90
DATE RUN 02/12/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-508
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.
2383	PCB-1016	0.50	U	0.5
2390	PCB-1221	0.50	U	0.5
2382	PCB-1232	0.50	U	0.5
2384	PCB-1242	0.50	U	0.5
2386	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.
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REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-090

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 01A
MATRIX WATER
TEST CODE 515U

DATE EXTRACTED 02/08/90
DATE RUN 02/14/90
DILUTION FACTOR 2
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWSOBE)

Parameter ID	Name	Analysis Result	Det. Lim.
2021	Dalapon	[illegible] J	2
2040	Picloram	[illegible] U	2
2041	Dinoseb	[illegible] U	1
2440	Dicamba	[illegible] J	1

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 14:00:00
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 02/07/90
DATE RUN 02/08/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #1
DATE COLLECTED 02/06/90 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 2/6/90
DATE RUN 2/8/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PWS030)

Parameter ID	Name	Analysis Result		Det. Lt.
2252	Isophorone	10	U	10
2577	1,2,4-Trichlorobenzene	10	U	10
2042	Hexachlorocyclo pentadiene	10	U	10
2282	Dimethylphthalate	10	U	10
2570	2,4-Dinitrotoluene	10	U	10
2284	Diethylphthalate	10	U	10
2289	Di-n-butyl phthalate	10	U	10
2294	Butyl Benzyl Phthalate	10	U	10
2298	Bis(2-Ethylhexyl) phthalate	10	U	10
2299	Dioctylphthalate			10
2063	2,3,7,8-TCDD (Dioxin		U	1000

UNREGULATED [illegible]

Parameter ID	Name			Det. Lt.
2418	2-Chlorophenol			10
2010	2-Methyl-4,6-Dinitro phenol			50
[illegible]	Phenol			10
[illegible]	2,4,6-Trichlorophenol			10

UNREGULATED [illegible]

Parameter ID	Name			Det. Lt.
[illegible]	[illegible]			50

ORLANDO LABORATORIES,INC.
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REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/06/90
DATE RUN 02/09/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 02A
MATRIX WATER
TEST CODE 50411

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/06/90
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PW5054)

Parameter ID	Name	Analysis Result	Det. Lt.
3931	1,2-dibromo-3-chloro Propane	0.03 U	0.01

ORLANDO LABORATORIES, INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 02A
MATRIX WATER
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/9/90
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

CRLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 02A
MATRIX WATER
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/9/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-524
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PHS034)

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
2223	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	1,2-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
2971	1,1-Dichloroethane	0.5	U	0.5
2972	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-Tetrachloroethane	0.5	U	0.5
2987	1,1,2,2-Tetrachloroethane	0.5	U	0.5
2988	Chlorobenzene	0.5	U	0.5

ORLANDO LABORATORIES,INC.
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REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080
Continued From Above

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 02A
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-090

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 02A
MATRIX WATER
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/07/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.41D(1)
(PWS035)

Parameter ID	Name	Analysis Result		Det. Lt.
2036	Oxamyl (Vydate)	2.0	U	2
2043	Aldicarb Sulfoxide	2.0	U	2
2044	Aldicarb Sulfone	2.0	U	2
2046	Carbofuran	1.8	U	1.8
2047	Aldicarb	1.0	U	1

ORLANDO LABORATORIES.INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DEP 17-550 Unreg Pest 608s

SAMPLE# 02A
MATRIX WATER
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/07/90
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.
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REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DEP 17-550 Unreg Pest 515s

SAMPLE# 02A
MATRIX WATER
TEST CODE 515U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/08/90
DATE RUN 02/14/90
DILUTION FACTOR 2
% MOISTURE NA

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result	Det. Lt.
2031	Dalapon	[illegible] U	[illegible]
2040	Picloram	[illegible] U	[illegible]
2041	Dinoseb	[illegible] U	[illegible]
2446	Dicamba	[illegible] U	[illegible]

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 02A
MATRIX WATER
TEST CODE 622U

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 02/07/90
DATE RUN 02/08/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Well #2
DATE COLLECTED 02/06/90 14:00:00
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE# 02A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/6/90
DATE RUN 2/8/90
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.
2382	Isophorone	[illegible]	J	10
2378	1,2,4-Trichlorobenzene	[illegible]	J	10
2042	Hexachlorocyclo pentadiene	[illegible]	J	10
2382	Dimethylphthalate	[illegible]	J	10
2370	2,4-Dinitrotoluene	[illegible]	J	10
2394	Diethylphthalate	[illegible]	J	10
2390	Di-n-butyl phthalate	[illegible]	J	10
2394	Butyl Benzyl Phthalate	[illegible]	J	10
2393	Bis(2-Ethylhexyl) phthalate	[illegible]	J	10
2398	Dioctylphthalate	[illegible]	J	10
2365	2,3,7,8-TCDD Dioxin	[illegible]	J	1000

UNREGULATED [illegible]

Parameter ID	Name			Det. Lt.
[illegible]	2-Chlorophenol	[illegible]	J	10
2312	2-Methyl-4,6-Dinitro phenol	[illegible]	J	50
[illegible]	[illegible]phenol	[illegible]	J	10
[illegible]	2,4,6-Trichlorophenol	[illegible]	J	10

UNREGULATED [illegible]

Parameter ID	Name			Det. Lt.
[illegible]	Pentachlorophenol	[illegible]	J	50

ORLANDO LABORATORIES.INC.
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REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "EDB" Analysis

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/06/90
DATE RUN 02/09/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME 17-550 "OBCP" Analysis

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 504U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/06/90
DATE RUN 02/09/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-504
UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PW0034)

Parameter ID	Name	Analysis Result	Det. Lt.
2931	1,2-dibromo-3-chloro propane	0.02 U	0.02

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Regulated VOA's

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 524R

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/9/90
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.
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REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DEP 17-550 Unregulated VOA

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 524U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/9/90
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	1,1-Dichloroethane	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
2977	1,1-Dichloroethene	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
2987	1,1,2,2-Tetrachloro ethane	0.5	U		0.5
2989	Chlorobenzene	0.5	U		0.5

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE# 04A
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unreg Pest 531s

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 531U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/07/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result		Det. Lt.
2036	Oxamyl (Vydate)	[illegible]	U	[illegible]
2043	Aldicarb Sulfoxide	[illegible]	U	[illegible]
2044	Aldicarb Sulfone	[illegible]	U	[illegible]
2046	Carbofuran	[illegible]	U	1.5
2047	Aldicarb	[illegible]	U	1

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 608s

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 608U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/07/90
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
2056	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 # 90-02-080
Received: 02/06/90 Results by Sample

SAMPLE ID Method Blank SAMPLE# 04A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME DER 17-550 Unreg Pest 515s TEST CODE 615U

DATE EXTRACTED 02/08/90
SAMPLE TYPE WATER DATE RUN 02/14/90
UNITS ug/l DILUTION FACTOR 1
ANALYST RAB % 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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 622U

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 02/07/90
DATE RUN 02/08/90
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: 02/06/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-080

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unreg BNAs/Pest

SAMPLE# 04A
MATRIX METHOD BLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/6/90
DATE RUN 2/8/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-625
UNREGULATED BASE NEUTRAL EXTRACTABLE ANALYSIS
17-550.410(3)
(PW3036)

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
9039	Dioctylphthalate	10	U	10
2063	2,3,7,8-TCDD (Dioxin)	1000	U	1000

UNREGULATED ACID EXTRACTABLE ANALYSIS
17-550.410(4)
(PW3037)

Parameter ID	Name	Analysis Result		Det. Lt.
9108	2-Chlorophenol	10	U	10
9112	2-Methyl-4,6-Dinitrophenol	50	U	50
9115	Phenol	10	U	10
9116	2,4,6-Trichlorophenol	10	U	10

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(5)
(PW3038)

Parameter ID	Name	Analysis Result		Det. Lt.
2108	Pentachlorophenol	50	U	50

ORLANDO LABORATORIES,INC.
Received: 02/06/90

REPORT OF ANALYSIS
NonReported Work

Work Order # 90-02-080

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

03A : NOTEST

ORLANDO LABORATORIES. INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-08-1990

LAB SAMPLE # : 9002080-02A
ANALYSIS DATE : 02/07/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	109	109	103	103	6

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	77	127	20	72	132	24

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002056-1
ANALYSIS DATE : 2/9/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	118	59	129	65	9
2-chlorophenol	200	0	159	80	157	79	1
4-chloro-3-methylphenol	200	0	195	98 *	210	105 *	7
4-nitrophenol	200	0	145	73	180	90	22
pentachlorophenol	200	0	191	96	197	99	3
1,4-dichlorobenzene	100	0	79	79	77	77	3
n-nitroso-di-n-propylamine	100	0	65	65	67	67	3
1,2,4-trichlorobenzene	100	0	82	82	77	77	6
acenaphthene	100	0	119	119 *	117	117	2
2,4-dinitrotoluene	100	0	125	125 *	133	133 *	6
pyrene	100	0	126	126	63	63	67 *

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/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-10-1990

LAB SAMPLE # : 9002082-10
ANALYSIS DATE : 2/9/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	43	86	47	94	9
trichloroethene	50	0	40	80	45	90	12
benzene	50	0	42	84	49	98	15 *
toluene	50	0	48	96	52	104	8
chlorobenzene	50	0	42	84	48	96	13

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 : 02-12-1990

LAB SAMPLE # : 9002056-03A
ANALYSIS DATE : 02/08/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD % RECOVERY	RPD
Gasoline	100	0	76	76	76	76	0

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
Gasoline	47	147	18	36	174	26

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-12-1990

LAB SAMPLE # : 9002080-01A
ANALYSIS DATE : 02/09/90

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 # : 9002066-01
ANALYSIS DATE : 02/14/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
DALAPON	166	0	116	116	117	117	6
PICLORAM	189	0	154	154	156	156	1

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
DALAPON	65	175	20	65	175	20
PICLORAM	65	175	20	65	175	20

NOTE: No 608U QA/QC due to matrix interferences in spiked sample.

End of Report

№ 03413

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): Southern States Util, Inc. — 1000 Color Place	2 CONTACT PERSON/PHONE # INVOICE: 880-0058	3 OLI WORK ORDER # (LAB USE): 902080
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP): Same – Aaron	5 CONTACT PERSON/PHONE # REPORT	6 RB NUMBER (LAB USE): 545
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS: (CITY, STATE, ZIP)		
8 CLIENT PROJECT NAME: Meredith Manor Water Plant	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	19 REMARKS
Well #1	2-6-90/2:00		✓	✓				7	X	
Well #2	2-6-90/2:00		✓	✓				7	X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Donald B. Corder	2-6-90/4:00	S. Schmidt
2nd			
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s: 147 / 216

22 SAMPLER'S SIGNATURE: Donald B. Corder

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0283

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 2 ... 91

12/5

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: MERIDITH MANOR / SYSTEM I.D. NO: 3590503 / SYSTEM PHONE #: [illegible]

ADDRESS: C/O [illegible] SILVER PLACE COUNTY: [illegible] DER DISTRICT: CENTRAL

COLLECTOR: [illegible] COLLECTOR PHONE #: [illegible]

SAMPLE SITE (Locality or Subdivision): [illegible] LAKE WORTH [illegible]

DATE AND TIME COLLECTED: [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)
[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
13	WELL #1	[illegible]	6.8	[illegible]		A		
14	WELL #2	[illegible]	6.9	[illegible]		A		
15	PRESSURE TANK	1.4	7.2	[illegible]		A		
16	208 LK GENE	[illegible]	7.2	[illegible]		A		
17	102 OAR RT	0.4	7.2	[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

HRS Form 888, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 0810-000-0888-5)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

[illegible]

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

REVIEWING OFFICIAL: JR

TITLE: DER

Morningview - 562

Lake County (SSU)

Water

- 1992 FPSC Filing -

Morningview

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
	4/91
	7/91
	10/91
Turbidity	1/91
Microbiological	12/91
Radionuclide	1/91
Secondary Contaminants	1/91
Unregulated Contaminants	1/91

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: Morningview PWS ID #3350852

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

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 # : 91-01-204
Date Received: 01/16/91
Date Reported: 01/24/91
OLI Contact: L_BALTZLEY

Work ID: Morning View PWS ID # 3350852
Total Samples: 2

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Well #1	PWS026 Turbidity Analysis
02 Method Blank	PWS029 Organic Chemical Analysis
	PWS030 Inorganic Analysis
	PWS031 Secondary Chem. Analysis
	PWS033 Radiological Analysis

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 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3350952
Public Water System Name: Morningview
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turb., Org. Chem., Inorganics, Secondaries & Radiological Analysis.

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 01/16/91
Laboratory Sample Number: 91-01-204
Sample Location: 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:

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 HEARBY CERTIFY that all data submitted is correct.

Signature Eric Malarek

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 1/24/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

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

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204

SAMPLE ID Well #1
DATE COLLECTED 01/16/91 09:00:00
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			0.19	EPA 180.1	01/18/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204

SAMPLE ID Well #1
DATE COLLECTED 01/16/91 09:00:00
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	01/17/91
2010	Lindane			0.00005	U	EPA 608	0.00005	01/17/91
2015	Methoxychlor			0.00050	U	EPA 608	0.00050	01/17/91
2020	Toxaphene			0.00100	U	EPA 608	0.00100	01/17/91
2105	2,4-D			0.0020	U	EPA 615	0.0020	01/18/91
2110	2,4,5-TP (Silvex)			0.0010	U	EPA 615	0.0010	01/18/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204

SAMPLE ID Well #1
DATE COLLECTED 01/16/91 09:00:00
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	01/17/91
1010	Barium			<0.100	EPA 200.7	0.100	01/18/91
1015	Cadmium			<0.005	EPA 213.2	0.005	01/18/91
1020	Chromium			<0.010	EPA 218.2	0.010	01/18/91
1025	Fluoride			<0.10	EPA 340.2	0.1	01/21/91
1030	Lead			<0.010	EPA 239.2	0.010	01/21/91
1035	Mercury			<0.0005	EPA 245.1	0.0005	01/18/91
1040	Nitrate (as N)			<0.03	EPA 352.2	0.03	01/22/91
1045	Selenium			<0.0005	EPA 270.2	0.005	01/17/91
1050	Silver			<0.010	EPA 272.2	0.010	01/17/91
1052	Sodium			5.00	EPA 200.7	0.001	01/18/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204

SAMPLE ID Well #1
DATE COLLECTED 01/16/91 09:00:00
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			47.0	EPA 200.7	0.1	01/18/91
1017	Chloride			9.2	SM 407	1.0	01/22/91
1019	Carbonate CaCO3			NOT ANALYZED			
1021	Hydroxide CaCO3			NOT ANALYZED			
1022	Copper			<0.010	EPA 200.7	0.010	01/18/91
1023	Bicarbonate CaCO3			NOT ANALYZED			
1025	Fluoride			<0.10	EPA 340.2	0.1	01/21/91
1026	Bicarbonate HCO3			NOT ANALYZED			
1027	Hydrogen Sulfide			NOT ANALYZED	Resample Attached		
1028	Iron			0.330	EPA 200.7	0.100	01/18/91
1031	Magnesium			NOT ANALYZED			
1032	Manganese			<0.030	EPA 200.7	0.030	01/18/91
1055	Sulfate			1.0	EPA 375.4	1.0	01/22/91
1095	Zinc			<0.050	EPA 200.7	0.050	01/18/91
1901	Carbon Dioxide			3.5	SM 406 C	1.0	01/18/91
1905	Color (color units)			<5.0	EPA 270.2	5 PCU	01/18/91
1915	Total Hardness			117	EPA 200.7	0.050	01/18/91
1917	NCH as CaCO3			NOT ANALYZED			
1920	Odor			2.0	EPA 140.1	1	01/18/91
1924	Field pH (units)			7.2			
1925	Lab pH (units)			7.86	EPA 150.1	N/A	01/18/91
1926	Field Conductivity			395			

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204
Continued From Above

SAMPLE ID Well #1
DATE COLLECTED 01/16/91 09:00:00
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			130	EPA 310.1	2.0	01/18/91
1930	TDS			150	EPA 160.1	1.0	01/21/91
1931	Phenolphthalein Alk.			<2.0	EPA 310.1	2.0	01/18/91
1996	Field Temp. (C)			24.1			
1997	Langlier Index pHs			7.63	CALC	N/A	01/22/91
1998	Saturation Index			0.23	CALC	N/A	01/22/91
1999	Stability Index			7.40	CALC	N/A	01/22/91
2909	Foaming Agents			<0.10	EPA 425.1	0.1	01/18/91
9996	Field DO			3.2			
9997	Field Chlorine			1.0			

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204

SAMPLE ID Well #1
DATE COLLECTED 01/16/91 09:00:00
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	+/- 1.8	01/23/91
4006	Total Uranium		N/A			
4010	Total Radium		N/A			
4020	Radium-226		N/A			
4030	Radium-228		N/A			
4100	Gross Beta		0.5	EPA 900.0	+/- 1.2	01/23/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-204

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

SAMPLE# 02A
MATRIX METHOD BL/
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	01/17/91
2010	Lindane			0.00005	U	EPA 608	0.00005	01/17/91
2015	Methoxychlor			0.00050	U	EPA 608	0.00050	01/17/91
2020	Toxaphene			0.00100	U	EPA 608	0.00100	01/17/91
2105	2,4-D			0.0020	U	EPA 615	0.0020	01/18/91
2110	2,4,5-TP (Silvex)			0.0010	U	EPA 615	0.0010	01/18/91

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 91-01-204
Page No: 9

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Turbidity	<1	N/A	01/18/91	JN
Color	<1	N/A	01/18/91	JN
Odor	<1	N/A	01/18/91	TB
pH	1	N/A	01/18/91	TB
MBAS	<1	106	01/18/91	JN
Nitrogen, Nitrite	<1	97	01/16/91	RAW
Total Alkalinity	<1	85	01/18/91	TB
Fluoride	7	110	01/21/91	JN
Nitrogen, Nitrate	<1	100	01/22/91	SC
Chloride	<1	103	01/22/91	TB
Sulfate	3	102	01/22/91	RAW
TDS	4	N/A	01/21/91	JN
Silver	<1	98	01/17/91	DR
Arsenic	<1	100	01/17/91	DR
Selenium	<1	92	01/17/91	CFG
Barium	<1	98	01/18/91	BB
Cadmium	<1	107	01/18/91	BB
Chromium	<1	105	01/18/91	BB
Sodium	<1	102	01/18/91	BB
Copper	<1	103	01/18/91	BB
Iron	3	106	01/18/91	BB
Manganese	<1	107	01/18/91	BB
Zinc	<1	108	01/18/91	BB
Calcium	7	108	01/18/91	BB
Lead	<1	98	01/21/91	JC
Mercury	<1	100	01/18/91	LG
Gross Alpha	0.5	118	01/23/91	JAB
Gross Beta	2.8	109	01/23/91	JAB

NOTE: The duplicates for Gross Alpha & Gross Beta are reported as actual difference rather than percent difference as specified.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-18-1991

LAB SAMPLE # : 9101203-01A
ANALYSIS DATE : 01/17/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	116	116	103	103	12
HEPTACHLOR	100	0	117	117	102	102	14
ALDRIN	100	0	117	117	100	100	16
DIELDRIN	100	0	121	121	104	104	15
ENDRIN	100	0	120	120	85	85	34 *
4,4-DDT	100	0	114	114	86	86	28 *

COMMENTS : * = parameter outside QC limits, DUE TO MATRIX INTERFERENCE.

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 : 01-20-1991

LAB SAMPLE # : 9101202-01a
ANALYSIS DATE : 1/18/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
PICLORAM	100	0	119	119	105	105	13
2,4,5-TP (silver)	100	0	128	128	162	162	23

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

0300

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): SSU Services 1000 Color Place Apopka Fl. 32703	2 CONTACT PERSON/PHONE # INVOICE:	3 OLI WORK ORDER # (LAB USE): 9101204
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP): " " Aaron Rubowich " " " " " "	5 CONTACT PERSON/PHONE # REPORT:	6 PB NUMBER (LAB USE): 2995
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP): Brian Heath 300 N. Fern Dr. Leesburg FL. 32748	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: (2550F)
8 CLIENT PROJECT NAME:	9 CLIENT PROJECT #: Morning View	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	REMARKS 19
	1/6-90 9:00		X	X				X

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	1/9 12:30	
2nd	John D. Hammond	1/16 1:00	Deedee Homan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s: 127

22 SAMPLER'S SIGNATURE

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 # : 91-04-271
Date Received: 04/16/91
Date Reported: 04/24/91
OLI Contact: L_BALTZLEY

Work ID: Morningview #562
Samples collected by: Client
Total Samples: 3

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 FE 4/14	FE_ICP Iron
02 FE 4/15	
03 FE 4/16	

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 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

Dedicated To Excellence

ORLANDO LABORATORIES,INC.
Received: 04/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-04-271

SAMPLE ID FE 4/14	SAMPLE # 01A
DATE COLLECTED 04/14/91	MATRIX WATER
FE_ICP <0.100 mg/l	

SAMPLE ID FE 4/15	SAMPLE # 02A
DATE COLLECTED 04/15/91	MATRIX WATER
FE_ICP <0.100 mg/l	

SAMPLE ID FE 4/16	SAMPLE # 03A
DATE COLLECTED 04/16/91	MATRIX WATER
FE_ICP <0.100 mg/l	

Southern States Utilities
Attn: Don Corder

Report No: 91-04-271
Page No: 3

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Iron	<1	106	04/17/91	BB

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 Services	1000 Color Place	1-800-432-4501	910427l
4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL)	**ADDRESS (CITY, STATE, ZIP)**	**5 CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
Dan Corder	Apopka, Fla. 32703	880-0058	3803
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO:	**ADDRESS (CITY, STATE, ZIP)**		
Brian Heath	300 N Tom Lees. Fla. 34748		
8 CLIENT PROJECT NAME		**9 CLIENT PROJECT #**	
Morningview	#562	PO# 102199	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: FC	19 REMARKS
FC	4-14		X	X			Dist system	1	X	retakes on
FC	4-15		X	X			" "	1	X	retakes from
FC	4-16		X	X			" "	1	X	1/91

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	J Baltzley	4/8 1445	
2nd	Lance Shaffer	4/11 15:00	Deedee Homan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s: D-5

22 SAMPLER'S SIGNATURE: Lance Shaffer

0304

SSU SERVICES

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

May 3, 1991

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

Re: Morningview PWS ID #3350852
Friendly Center PWS ID #3350426
East Lake Harris PWS ID #3350322
Carlton Village PWS ID #3350152

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
District Supervisor

DBC/jlm

cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

ORLANDO LABORATORIES INC

MUK

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 91-01-206
Date Received: 01/16/91
Date Reported: 01/31/91
OLI Contact: L_BALTZLEY

Work ID: 5 separate locations
Total Samples: 3

Morningview
PWS ID# 3350852

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Composite #1	1_COMP Composite Data For Samples
02 Trip Blank	PWS028 Volatile Organic Analysis
03 Method Blank	PWS034 Unreg-Organic Purgeable
	PWS035 Unreg-Organic Pesticides
	PWS036 Unreg-Base Neutral Extract
	PWS037 Unreg-Acid Extractable

Copy of results to:

Brian Heath
300 North Fern Drive
Leesburg, 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.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3350852
Public Water System Name: Morning View
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, Unreg-Organic Purgeable Analysis, Unreg-Organic Pesticide Unreg-Base Neutral Extractable Analysis and Unreg-Acid Extractable Analysis.
Subcontracted Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 01/16/91
Laboratory Sample Number: 91-01-206
Sample Location: 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:

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 01/17/91 (504,615,608,622), 01/18/91 (625)
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 1/21/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

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

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 91-01-206
Received: 01/16/91 Results by Sample

SAMPLE ID Composite #1 SAMPLE# 01A
DATE COLLECTED not specified MATRIX WATER
TEST NAME Composite Data For Samples TEST CODE 1 COMP

NUMBER OF SAMPLES COMPOSITED: 5

	Sample Identification	Date & Time Collected
#1	FRIENDLY CENTER	01/16/91 10:00
#2	CARLTON VIL #1	01/16/91 10:00
#3	CARLTON VIL #2	01/16/91 10:00
#4	MORNING VIEW	01/16/91 09:00
#5	EAST LAKE HARRIS	01/16/91 11:00
#6		
#7		
#8		
#9		
#10		
#11		
#12		

The results for this composite can be found under the Sample ID of: COMPOSITE #1

Comments

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

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	U	EPA 504	0.00002	01/18/91
2969	Para-dichlorobenzene			0.0005	U	EPA 524	0.0005	01/17/91
2976	Vinyl Chloride			0.0005	U	EPA 524	0.0005	01/17/91
2977	1,1-Dichloroethene			0.0005	U	EPA 524	0.0005	01/17/91
2980	1,2-Dichloroethane			0.0005	U	EPA 524	0.0005	01/17/91
2981	1,1,1-trichloroethane			0.0005	U	EPA 524	0.0005	01/17/91
2982	Carbon Tetrachloride			0.0005	U	EPA 524	0.0005	01/17/91
2984	Trichloroethene			0.0005	U	EPA 524	0.0005	01/17/91
2987	Tetrachloroethene			0.0005	U	EPA 524	0.0005	01/17/91
2990	Benzene			0.0005	U	EPA 524	0.0005	01/17/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS034

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			0.00050 U	EPA 524	0.00050	01/17/91
2212	Dichlorodifluoro methane			0.00050 U	EPA 524	0.00050	01/17/91
2214	Bromomethane			0.00050 U	EPA 524	0.00050	01/17/91
2216	Chloroethane			0.00050 U	EPA 524	0.00050	01/17/91
2218	Trichlorofluoro methane			0.00050 U	EPA 524	0.00050	01/17/91
2224	trans-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/17/91
2228	cis-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/17/91
2251	Methyl tert-butyl ether			0.00050 U	EPA 524	0.00050	01/17/91
2380	cis-1,2-Dichloro ethene			0.00050 U	EPA 524	0.00050	01/17/91
2408	Dibromomethane			0.00050 U	EPA 524	0.00050	01/17/91
2410	1,1-Dichloropropene			0.00050 U	EPA 524	0.00050	01/17/91
2412	1,3-Dichloropropane			0.00050 U	EPA 524	0.00050	01/17/91
2414	1,2,3-Trichloro propane			0.00050 U	EPA 524	0.00050	01/17/91
2416	2,2-Dichloropropane			0.00050 U	EPA 524	0.00050	01/17/91
2931	1,2-dibromo-3-chloro propane			0.00020 U	EPA 504	0.00020	01/18/91
2941	Chloroform			0.00050 U	EPA 524	0.00050	01/17/91
2942	Bromoform			0.00050 U	EPA 524	0.00050	01/17/91
2943	Bromodichloro methane			0.00050 U	EPA 524	0.00050	01/17/91

ORLANDO LABORATORIES,INC.
Received: 01/15/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206
Continued From Above

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS034

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

2944 Dibromochloro methane			0.00050	U	EPA 524	0.00050	01/17/91
2962 para-Xylene			0.00050	U	EPA 524	0.00050	01/17/91
2964 Methylene Chloride			0.00050	U	EPA 524	0.00050	01/17/91
2965 o-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/17/91
2966 p-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/17/91
2967 meta-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2968 o-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2978 1,1-Dichloroethane			0.00050	U	EPA 524	0.00050	01/17/91
2979 trans-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/17/91
2983 1,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/17/91
2985 1,1,2-Trichloroethane			0.00050	U	EPA 524	0.00050	01/17/91
2986 1,1,1,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/17/91
2988 1,1,2,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/17/91
2989 Chlorobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2991 Toluene			0.00050	U	EPA 524	0.00050	01/17/91
2992 Ethylbenzene			0.00050	U	EPA 524	0.00050	01/17/91
2993 Bromobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2995 meta-Xylene			0.00050	U	EPA 524	0.00050	01/17/91
2996 Styrene			0.00050	U	EPA 524	0.00050	01/17/91
2997 ortho Xylene			0.00050	U	EPA 524	0.00050	01/17/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Unreg-Organic Pesticides

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS035

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(2)
(PWS035)

Parameter ID	Name	Sample Number	Location Code	Analysis Result(mg/l)		Analytical Method	Det. Lt. Used	Analysis Date
2031	Dalapon			0.00100	U	EPA 615	0.00100	01/18/91
2036	Oxamyl (Vydate)			0.00200	U	EPA 531	0.00200	01/23/91
2037	Simazine			0.00005	U	EPA 622	0.00005	01/23/91
2040	Picloram			0.00100	U	EPA 615	0.00100	01/18/91
2041	Dinoseb			0.00200	U	EPA 615	0.00200	01/18/91
2043	Aldicarb sulfoxide			0.00200	U	EPA 531	0.00200	01/23/91
2044	Aldicarb sulfone			0.00200	U	EPA 531	0.00200	01/23/91
2045	Metolachlor			0.00005	U	EPA 622	0.00005	01/17/91
2046	Carbofuran			0.00150	U	EPA 531	0.00150	01/23/91
2047	Aldicarb			0.00100	U	EPA 531	0.00100	01/23/91
2050	Atrazine			0.00005	U	EPA 622	0.00005	01/17/91
2051	Alachlor (Lasso)			0.00005	U	EPA 622	0.00005	01/17/91
2065	Heptachlor			0.00005	U	EPA 608	0.00005	01/15/91
2356	Aldrin			0.00005	U	EPA 608	0.00005	01/15/91
2364	Dieldrin			0.00010	U	EPA 608	0.00010	01/15/91
2440	Dicamba			0.00200	U	EPA 615	0.00200	01/18/91
2959	Chlordane			0.00050	U	EPA 608	0.00050	01/15/91
2326	Pentachlorophenol			0.05000	U	EPA 625	0.05000	01/19/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Unreg-Base Neutral Extract

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS036

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			0.01000	U	EPA 625	0.01000	01/19/91
2063	Dioxin			0.01000	U	EPA 625	0.01000	01/19/91
2262	Isophorone			0.01000	U	EPA 625	0.01000	01/19/91
2270	2,4-dinitrotoluene			0.01000	U	EPA 625	0.01000	01/19/91
2282	Dimethylphthalate			0.01000	U	EPA 625	0.01000	01/19/91
2284	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/19/91
2290	Dinbutylphthalate			0.01000	U	EPA 625	0.01000	01/19/91
2294	Butyl benzyl phathalate			0.01000	U	EPA 625	0.01000	01/19/91
2298	Bis(2-ethylhexyl) phthalate			0.01000	U	EPA 625	0.01000	01/19/91
2378	1,2,4-trichloro benzene			0.01000	U	EPA 625	0.01000	01/19/91
2388	PCB-1016			0.00050	U	EPA 608	0.00050	01/17/91
2390	PCB-1221			0.00050	U	EPA 608	0.00050	01/17/91
2392	PCB-1232			0.00050	U	EPA 608	0.00050	01/17/91
2394	PCB-1242			0.00050	U	EPA 608	0.00050	01/17/91
2396	PCB-1248			0.00050	U	EPA 608	0.00050	01/17/91
2398	PCB-1254			0.00100	U	EPA 608	0.00100	01/17/91
2400	PCB-1260			0.00100	U	EPA 608	0.00100	01/17/91
9099	Dioctylphthalate			0.01000	U	EPA 625	0.01000	01/19/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Composite #1
DATE COLLECTED not specified
TEST NAME Unreg-Acid Extractable

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS037

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			0.01000	U	EPA 625	0.01000	01/19/91
9112	2-methyl-4,6-dinito phenol			0.05000	U	EPA 625	0.05000	01/19/91
9115	Phenol			0.01000	U	EPA 625	0.01000	01/19/91
9116	2,4,6-trichloro-phenol			0.01000	U	EPA 625	0.01000	01/19/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

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

SAMPLE# 03A
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	U	EPA 504	0.00002	01/18/91
2969	Para-dichlorobenzene			0.0005	U	EPA 524	0.0005	01/17/91
2976	Vinyl Chloride			0.0005	U	EPA 524	0.0005	01/17/91
2977	1,1-Dichloroethene			0.0005	U	EPA 524	0.0005	01/17/91
2980	1,2-Dichloroethane			0.0005	U	EPA 524	0.0005	01/17/91
2981	1,1,1-trichloroethane			0.0005	U	EPA 524	0.0005	01/17/91
2982	Carbon Tetrachloride			0.0005	U	EPA 524	0.0005	01/17/91
2984	Trichloroethene			0.0005	U	EPA 524	0.0005	01/17/91
2987	Tetrachloroethene			0.0005	U	EPA 524	0.0005	01/17/91
2990	Benzene			0.0005	U	EPA 524	0.0005	01/17/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS034

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			0.00050 U	EPA 524	0.00050	01/17/91
2212	Dichlorodifluoro methane			0.00050 U	EPA 524	0.00050	01/17/91
2214	Bromomethane			0.00050 U	EPA 524	0.00050	01/17/91
2216	Chloroethane			0.00050 U	EPA 524	0.00050	01/17/91
2218	Trichlorofluoro methane			0.00050 U	EPA 524	0.00050	01/17/91
2224	trans-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/17/91
2228	cis-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/17/91
2251	Methyl tert-butyl -ether			0.00050 U	EPA 524	0.00050	01/17/91
2380	cis-1,2-Dichloro ethene			0.00050 U	EPA 524	0.00050	01/17/91
2408	Dibromomethane			0.00050 U	EPA 524	0.00050	01/17/91
2410	1,1-Dichloropropene			0.00050 U	EPA 524	0.00050	01/17/91
2412	1,3-Dichloropropane			0.00050 U	EPA 524	0.00050	01/17/91
2414	1,2,3-Trichloro propane			0.00050 U	EPA 524	0.00050	01/17/91
2416	2,2-Dichloropropane			0.00050 U	EPA 524	0.00050	01/17/91
2931	1,2-dibromo-3-chloro propane			0.00020 U	EPA 504	0.00020	01/18/91
2941	Chloroform			0.00050 U	EPA 524	0.00050	01/17/91
2942	Bromoform			0.00050 U	EPA 524	0.00050	01/17/91
2943	Bromodichloro methane			0.00050 U	EPA 524	0.00050	01/17/91

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS034

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

2944	Dibromochloro methane			0.00050	U	EPA 524	0.00050	01/17/91
2962	para-Xylene			0.00050	U	EPA 524	0.00050	01/17/91
2964	Methylene Chloride			0.00050	U	EPA 524	0.00050	01/17/91
2965	o-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/17/91
2966	p-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/17/91
2967	meta-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2968	o-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2978	1,1-Dichloroethane			0.00050	U	EPA 524	0.00050	01/17/91
2979	trans-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/17/91
2983	1,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/17/91
2985	1,1,2-Trichloroethane			0.00050	U	EPA 524	0.00050	01/17/91
2986	1,1,1,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/17/91
2988	1,1,2,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/17/91
2989	Chlorobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2991	Toluene			0.00050	U	EPA 524	0.00050	01/17/91
2992	Ethylbenzene			0.00050	U	EPA 524	0.00050	01/17/91
2993	Bromobenzene			0.00050	U	EPA 524	0.00050	01/17/91
2995	meta-Xylene			0.00050	U	EPA 524	0.00050	01/17/91
2996	Styrene			0.00050	U	EPA 524	0.00050	01/17/91
2997	ortho Xylene			0.00050	U	EPA 524	0.00050	01/17/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Pesticides

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS035

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(2)
(PWS035)

Parameter ID	Name	Sample Number	Location Code	Analysis Result(mg/l)		Analytical Method	Det. Lt. Used	Analysis Date
2031	Dalapon			0.00100	U	EPA 615	0.00100	01/18/91
2036	Oxamyl (Vydate)			0.00200	U	EPA 531	0.00200	01/23/91
2037	Simazine			0.00005	U	EPA 622	0.00005	01/17/91
2040	Pictoran			0.00100	U	EPA 615	0.00100	01/18/91
2041	Dinoseb			0.00200	U	EPA 615	0.00200	01/18/91
2043	Aldicarb sulfoxide			0.00200	U	EPA 531	0.00200	01/23/91
2044	Aldicarb sulfone			0.00200	U	EPA 531	0.00200	01/23/91
2045	Metolachlor			0.00005	U	EPA 622	0.00005	01/17/91
2046	Carbofuran			0.00150	U	EPA 531	0.00150	01/23/91
2047	Aldicarb			0.00100	U	EPA 531	0.00100	01/23/91
2050	Atrazine			0.00005	U	EPA 622	0.00005	01/17/91
2051	Alachlor (Lasso)			0.00005	U	EPA 622	0.00005	01/17/91
2065	Heptachlor			0.00005	U	EPA 608	0.00005	01/15/91
2356	Aldrin			0.00005	U	EPA 608	0.00005	01/15/91
2364	Dieldrin			0.00010	U	EPA 608	0.00010	01/15/91
2440	Dicamba			0.00200	U	EPA 615	0.00200	01/18/91
2959	Chlordane			0.00050	U	EPA 608	0.00050	01/15/91
2326	Pentachlorophenol			0.05000	U	EPA 625	0.05000	01/19/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Base Neutral Extract

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS036

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			0.01000	U	EPA 625	0.01000	01/19/91
2063	Dioxin			0.01000	U	EPA 625	0.01000	01/19/91
2262	Isophorone			0.01000	U	EPA 625	0.01000	01/19/91
2270	2,4-dinitrotoluene			0.01000	U	EPA 625	0.01000	01/19/91
2282	Dimethylphthalate			0.01000	U	EPA 625	0.01000	01/19/91
2284	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/19/91
2290	Dinbutylphthalate			0.01000	U	EPA 625	0.01000	01/19/91
2294	Butyl benzyl phathalate			0.01000	U	EPA 625	0.01000	01/19/91
2298	Bis(2-ethylhexyl) phthalate			0.01000	U	EPA 625	0.01000	01/19/91
2378	1,2,4-trichloro benzene			0.01000	U	EPA 625	0.01000	01/19/91
2388	PCB-1016			0.00050	U	EPA 608	0.00050	01/17/91
2390	PCB-1221			0.00050	U	EPA 608	0.00050	01/17/91
2392	PCB-1232			0.00050	U	EPA 608	0.00050	01/17/91
2394	PCB-1242			0.00050	U	EPA 608	0.00050	01/17/91
2396	PCB-1248			0.00050	U	EPA 608	0.00050	01/17/91
2398	PCB-1254			0.00100	U	EPA 608	0.00100	01/17/91
2400	PCB-1260			0.00100	U	EPA 608	0.00100	01/17/91
9089	Dioctylphthalate			0.01000	U	EPA 625	0.01000	01/19/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/16/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-206

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Acid Extractable

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS037

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			0.01000	U	EPA 625	0.01000	01/19/91
9112	2-methyl-4,6-dinitophenol			0.05000	U	EPA 625	0.05000	01/19/91
9115	Phenol			0.01000	U	EPA 625	0.01000	01/19/91
9116	2,4,6-trichlorophenol			0.01000	U	EPA 625	0.01000	01/19/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/16/91

REPORT OF ANALYSIS
NonReported Work

Work Order # 91-01-206

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02A : NOTEST

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-18-1991

LAB SAMPLE # : 9101206-01A
ANALYSIS DATE : 01/18/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ETHYLENE DIBROMIDE	100	0	64	64	60	60	6

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ETHYLENE DIBROMIDE	50	100	20	35	90	26

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-18-1991

LAB SAMPLE # : 9101206-1 524
ANALYSIS DATE : 1/17/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	61	122	57	114	7
trichloroethene	50	0	56	112	49	98	13
benzene	50	0	57	114	52	104	9
toluene	50	0	55	110	46	92	18 *
chlorobenzene	50	0	55	110	44	88	22 *

COMMENTS : * = parameter outside QC limits, Due To Matrix Interference.

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 : 01-23-1991

LAB SAMPLE # : 9101178-03A
ANALYSIS DATE : 01/23/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	117	117	108	108	8

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	62	130	20	60	135	20

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-23-1991

LAB SAMPLE # : 9101178-03A
ANALYSIS DATE : 01/23/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	117	117	108	108	8

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	62	130	20	60	135	20

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-18-1991

LAB SAMPLE # : 9101203-01A
ANALYSIS DATE : 01/17/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD	
GAMMA-BHC (LINDANE)	100	0	116	116	103	103	12	
HEPTACHLOR	100	0	117	117	102	102	14	
ALDRIN	100	0	117	117	100	100	16	
DIELDRIN	100	0	121	121	104	104	15	
ENDRIN	100	0	120	120	85	85	34	*
4,4-DDT	100	0	114	114	86	86	28	*

COMMENTS : * = parameter outside QC limits, DUE TO MATRIX INTERFERENCE.

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 : 01-18-1991

LAB SAMPLE # : 9101203-01A
ANALYSIS DATE : 01/17/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	116	116	103	103	12
HEPTACHLOR	100	0	117	117	102	102	14
ALDRIN	100	0	117	117	100	100	16
DIELDRIN	100	0	121	121	104	104	15
ENDRIN	100	0	120	120	85	85	34 *
4,4-DDT	100	0	114	114	86	86	28 *

COMMENTS : * = parameter outside QC limits, DUE TO MATRIX INTERFERENCE.

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 : 01-20-1991

LAB SAMPLE # : 9101209-1 625
ANALYSIS DATE : 1/19/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	131	66	139	70	6
2-chlorophenol	200	0	228	114	243	122	6
4-chloro-3-methylphenol	200	0	222	111 *	244	122 *	9
4-nitrophenol	200	0	62	31	39	20	46
pentachlorophenol	200	0	326	163 *	359	180 *	10
1,4-dichlorobenzene	100	0	97	97	103	103 *	6
n-nitroso-di-n-propylamine	100	0	92	92	98	98	6
1,2,4-trichlorobenzene	100	0	96	96	105	105 *	9
acenaphthene	100	0	105	105	114	114	8
2,4-dinitrotoluene	100	0	100	100	106	106 *	6
pyrene	100	0	89	89	100	100	12

COMMENTS : * = parameter outside QC limits, DUE TO MATRIX INTERFERENCE.

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/MS SEMI-VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-20-1991

LAB SAMPLE # : 9101209-1 625
ANALYSIS DATE : 1/19/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	131	66	139	70	6
2-chlorophenol	200	0	228	114	243	122	6
4-chloro-3-methylphenol	200	0	222	111 *	244	122 *	9
4-nitrophenol	200	0	62	31	39	20	46
pentachlorophenol	200	0	326	163 *	359	180 *	10
1,4-dichlorobenzene	100	0	97	97	103	103 *	6
n-nitroso-di-n-propylamine	100	0	92	92	98	98	6
1,2,4-trichlorobenzene	100	0	96	96	105	105 *	9
acenaphthene	100	0	105	105	114	114	8
2,4-dinitrotoluene	100	0	100	100	106	106 *	6
pyrene	100	0	89	89	100	100	12

COMMENTS : * = parameter outside QC limits, DUE TO MATRIX INTERFERENCE.

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

0330

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.U.S. Services 1000 Color Pl Apopka FL		9101206
4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)	**5 CONTACT PERSON/PHONE # REPORT**	**6 RR NUMBER (LAB USE)**
AARON Perlowich "		
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: 125 V-U	19 REMARKS
Friendly Center	1/16 10^00			✓						
Carlton Vil #1	1/16 10^00			✓						Composite all 5 samples into 1 sample
Carlton Vil #2	1/16 10^00			✓						
Morning View	1/16 9^00			✓						
East 4th Harris	1/16 11^00			✓						

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Client	1/16 13:00	
2nd			
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB

FLOWER

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr30 1991
PO Number: 111402
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Apr18 1991 Lab Number : 16697

REPORT OF ANALYSIS

Morningview 2nd Qtr.

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16697
Ethylene dibromide	mg/L	0.000005	116	1.78	<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	2.22	<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

Page 1 of 1

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-55
ALTAMONTE SPRINGS
FLORIDA 32715-01

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3350852
Public Water System Name Morning View
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 15697
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 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 4/29/91

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

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 05/01/8 () 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	16697	.00002	<.000005	EPA504.1	.000005	4/29/91
2969	Para-dichlorobenzene	16697	.075	<0.001	EPA502.2	0.001	4/25/91
2976	Vinyl chloride	16697	0.001	<0.001	EPA502.2	0.001	4/25/91
2977	1,1-dichloroethene	16697	0.007	<0.001	EPA502.2	0.001	4/25/91
2980	1,2-dichloroethane	16697	0.003	<0.001	EPA502.2	0.001	4/25/91
2981	1,1,1-trichloroethane	16697	0.2	<0.001	EPA502.2	0.001	4/25/91
2982	Carbon tetrachloride	16697	0.003	<0.001	EPA502.2	0.001	4/25/91
2984	Trichloroethene	16697	0.003	<0.001	EPA502.2	0.001	4/25/91
2987	Tetrachloroethene	16697	0.003	<0.001	EPA502.2	0.001	4/25/91
2990	Benzene	16697	0.001	<0.001	EPA502.2	0.001	4/25/91

Comments:

SSU
SERVICES

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

August 14, 1991

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

Re; Lake County - PW
Carlton Village PWS ID #3350152
Morningview PWS ID #3350852
East Lake Homes PWS ID #3350322
Friendly Center PWS ID #3350426
Hobby Hills PWS ID #3350544
Palms Mobile Homes PWS ID #3350981
Picciola Island PWS ID #3351009

Dear Ms. Carrasquillo,

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

Please enter this information into your records.

Sincerely,

SSU Services

Don Corder
General Supervisor

DC/jlm

cc: Charles Sweat
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU Serv/LANCE
1000 Color Place
Apopka,FL 32703

Date Reported: Aug 7 1991
PO Number: 23255
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Jul31 1991 Lab Number : 17419

REPORT OF ANALYSIS

Monitoring Well

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17419
Ethylene dibromide	mg/L	0.000005	98.2	.762	<0.000005
Para-dichlorobenzene	mg/L	0.001	104	4.84	<0.001
Vinyl chloride	mg/L	0.001	107	.418	<0.001
1,1-dichloroethene	mg/L	0.001	107	.418	<0.001
1,2-dichloroethane	mg/L	0.001	106	1.36	<0.001
1,1,1-trichloroethan	mg/L	0.001	112	1.90	<0.001
Carbon tetrachloride	mg/L	0.001	109	.849	<0.001
Trichloroethene	mg/L	0.001	102	1.46	<0.001
Tetrachloroethene	mg/L	0.001	113	12.2	<0.001
Benzene	mg/L	0.001	99.5	1.36	<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: 3350852
Public Water System Name Morning View
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 17419
Sample Location (be specific): #1 Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Lance Shreffler
_____

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 8/7/91

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)
(PWS02.)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result, mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	17419	.00002	<.000005	EPA504.1	.000005	8/5/91
2969	Para-dichlorobenzene	17419	.075	<0.001	EPA502.2	0.001	8/1/91
2976	Vinyl chloride	17419	0.001	<0.001	EPA502.2	0.001	8/1/91
2977	1,1-dichloroethene	17419	0.007	<0.001	EPA502.2	0.001	8/1/91
2980	1,2-dichloroethane	17419	0.003	<0.001	EPA502.2	0.001	8/1/91
2981	1,1,1-trichloroethane	17419	0.2	<0.001	EPA502.2	0.001	8/1/91
2982	Carbon tetrachloride	17419	0.003	<0.001	EPA502.2	0.001	8/1/91
2984	Trichloroethene	17419	0.003	<0.001	EPA502.2	0.001	8/1/91
2987	Tetrachloroethene	17419	0.003	<0.001	EPA502.2	0.001	8/1/91
2990	Benzene	17419	0.001	<0.001	EPA502.2	0.001	8/1/91

Comments:

FDER Lab
FDHR Lab
NCDEHNR Lab
SCDHEC Lab

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

Attn: Don Corder

(1) Client: SSU Services
(2) Address:
(3) Phone:
(4) Public Drinking Water ID #:
(5) Project #:
(6) Public Water System Name:
(7) PO# 23255
(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

(9)	Tic	Preservative: HNO3	Preservative: ZnOAc/NaOH	Plastic Containers: 60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	Glass Containers: 40ml	250ml	500ml	1L	2L	4L
										X					

NOTES: 5 wells PLZ Conpute

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

(10) RH Relinquished: (10) Date (10) Time
(11) RH 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:

VOA → Carlton Village 555, 557 East Lake Harris, 556 Friendly Center, 562 Morning View

(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
17419	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:		7-31-91	15:45
(17) Transporters Signature:		7-31-91	3:45
(19) Lab Acceptance By:		7/31/91	

SSU SERVICES

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

October 28, 1991

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

Re: Lake County PW
Carlton Village PWS ID #3350152
East Lake Harris PWS ID #3350322
Friendly Center PWS ID #3350426
Morningview PWS ID #3350852

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, ~~third~~ Fourth quarter 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: Oct21 1991
PO Number: L114551
PO Number Carlton Vill.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: #555,556,557,562
Date Received: Oct16 1991
Lab Number : 18035

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18035
Ethylene dibromide	mg/L	0.000005	111	2.25	<0.000005
Para-dichlorobenzene	mg/L	0.001	93.5	1.54	<0.001
Vinyl chloride	mg/L	0.001	107	1.94	<0.001
1,1-dichloroethene	mg/L	0.001	107	1.94	<0.001
1,2-dichloroethane	mg/L	0.001	106	1.35	<0.001
1,1,1-trichloroethan	mg/L	0.001	108	2.17	<0.001
Carbon tetrachloride	mg/L	0.001	106	1.68	<0.001
Trichloroethene	mg/L	0.001	105	.894	<0.001
Tetrachloroethene	mg/L	0.001	103	2.58	<0.001
Benzene	mg/L	0.001	105	1.16	<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

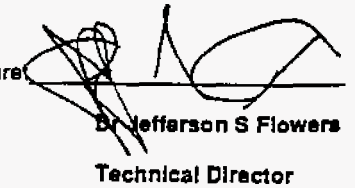
PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Morningview
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

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 18035
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 10/19/91

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	18035	.00002	<.000005	EPA504.1	.000005	10/17/91
2969	Para-dichlorobenzene	18035	.075	<0.001	EPA502.2	0.001	10/17/91
2976	Vinyl chloride	18035	0.001	<0.001	EPA502.2	0.001	10/17/91
2977	1,1-dichloroethene	18035	0.007	<0.001	EPA502.2	0.001	10/17/91
2980	1,2-dichloroethane	18035	0.003	<0.001	EPA502.2	0.001	10/17/91
2981	1,1,1-trichloroethane	18035	0.2	<0.001	EPA502.2	0.001	10/17/91
2982	Carbon tetrachloride	18035	0.003	<0.001	EPA502.2	0.001	10/17/91
2984	Trichloroethene	18035	0.003	<0.001	EPA502.2	0.001	10/17/91
2987	Tetrachloroethene	18035	0.003	<0.001	EPA502.2	0.001	10/17/91
2990	Benzene	18035	0.001	<0.001	EPA502.2	0.001	10/17/91

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FLOWERS Lab 030016
FLORIDA Lab 87120
NORTH CAROLINA Lab 284
SOUTH CAROLINA Lab 99015

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

ATTN: Don Cordes

(1)Client	(2)Address	(3)Phone
SSO	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

PO# L114551 | (M) Community ( ) Non-Community ( ) Special Non-Community

	Preservative			Plastic Containers						Glass Containers						NOTES:
		HNO3	2mOAC/NaOH		60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
(18)	15										X						(12)Turn Around Time: 10 Working Days: 5 Working Days : 3 Working Days : 1 Working Day : Other :

CARLTON VILLAGE (2 WELLS)
E. LK. HARRIS (1 WELL)
FRIENDLY CENTER (1 WELL)
MORNINGVIEW (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
	#1 #555 W#1 - 3
	#2 #556 W#2 - 3
18035	#3 #557 W - 3
	#4 #560 W - 3
	#5 #562 W - 3
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	Brian Heath	10/16/91	
(14)Transporters Signature:	[illegible]	10-16-91	
(15)Lab Acceptance By:	[illegible]	10/16/91	3:44

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

12/12

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Morningview #562 SYSTEM I.D. NO: 3358852 SYSTEM PHONE #: 904321-5201

ADDRESS: English Road COUNTY: Lake DER DISTRICT: Central

COLLECTOR: John Haversack COLLECTOR PHONE #: 904 777-1401

SAMPLE SITE (Locality or Subdivision): Morningview

DATE AND TIME COLLECTED: 12/11/91 9:30 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~~ (Check Box) Repeat [X] Distribution [ ] New Replacement (Check Box) [ ] TNTC or Cl [ ] 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	
W-	well	1.0		[illegible]		A			
PT	Pressure Tank	1.2		[illegible]		A			
R-1	2916 Paola Bdlow	0.9		[illegible]		A			
R-2	1322 Le Solids	1.0		[illegible]		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 888, Jan 81 (Obsolete previous editions which may not be used) (Stock Number: 5740-000-0888-1)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Surveys
1000 Color Place
Apopka FL
32703

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

REVIEWING OFFICIAL: JR

TITLE: DEL

Oak Forest - 993

Citrus County (SSU)

Water

- 1992 FPSC Filing -

Oak Forest

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
	3/91
	7/91
	10/91
Turbidity	7/91
Microbiological	12/91
Radionuclide	9/90
Secondary Contaminants	7/91
Unregulated Contaminants	2/91

SSU SERVICES

To Clara

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

March 5, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the first quarterly tests taken for volatile organics, unregulated organic purgeables, unregulated organic pesticide, unregulated base neutral extractable and unregulated acid extractable per DEh Drinking Water Standards 17550 for the following water plants in Citrus County. Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Golden Terrace - composite, Oak Forest, Rosemont and Rolling Green - composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.B. Williams, General Manager
Pine Ridge & SSU County Plants

REW:sr

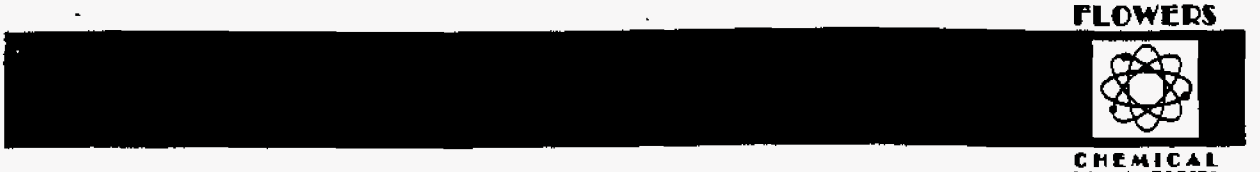
Attachments

cc: Charles L. Sweat
Chris Arcand
Frank Sanderson
File

FLOWERS



FLOWERS



CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

r: OF-1&2/RM-1/RG-1&2
.e Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
Ethylene dibromide	mg/L	0.000005	91.6	5.28	<0.000005
Para-dichlorobenzene	mg/L	0.001	113	.036	<0.001
Vinyl chloride	mg/L	0.001	94.1	.527	<0.001
1,1-dichloroethene	mg/L	0.001	94.1	.527	<0.001
1,2-dichloroethane	mg/L	0.001	106	.265	<0.001
1,1,1-trichloroethan	mg/L	0.001	98.6	.063	<0.001
Carbon tetrachloride	mg/L	0.001	98.7	.458	<0.001
Trichloroethene	mg/L	0.001	107	.537	<0.001
Tetrachloroethene	mg/L	0.001	112	.160	<0.001
Benzene	mg/L	0.001	103	4.19	<0.001
Chloromethane	mg/L	0.001	111	1.29	<0.001
Dichlorodifluorometh	mg/L	0.001	98.7	.458	<0.001
Bromomethane	mg/L	0.001	111	1.29	<0.001
Chloroethane	mg/L	0.001	94.1	.527	<0.001
Trichlorofluorometha	mg/L	0.001	98.7	.458	<0.001
trans-1,3,-dichlorop	mg/L	0.001	92.6	1.14	<0.001
cis-1,3-dichloroprop	mg/L	0.001	104	.694	<0.001
Methyl-tert-butyleth	mg/L	0.001	117	1.54	<0.001
cis-1,2-dichloroethe	mg/L	0.001	104	.694	<0.001
Dibromomethane	mg/L	0.001	111	1.29	<0.001
',1-dichloropropene	mg/L	0.001	102	0.91	<0.001
,3-dichloropropane	mg/L	0.001	92.6	1.14	<0.001
,2,3-trichloropropa	mg/L	0.001	114	2.92	<0.001
2,2-dichloropropane	mg/L	0.001	94.1	.527	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	114	2.92	<0.001
Chloroform	mg/L	0.001	98.3	.628	<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.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
Dinoseb	mg/L	0.00001	106	3.28	<0.00001
dicarb sulfoxide	mg/L	0.002	95.0	7.44	<0.002
Aldicarb sulfone	mg/L	0.002	100	7.86	<0.002
Metolachlor	mg/L	0.0005	108	4.60	<0.0005
Carbofuran	mg/L	0.001	96.0	5.24	<0.001
Aldicarb	mg/L	0.002	97.7	0.00	<0.002
Atrazine	mg/L	0.002	101	0.65	<0.002
Alachlor (Lasso)	mg/L	0.0002	107	3.91	<0.0002
Heptachlor	mg/L	0.000005	107	3.99	<0.000005
Aldrin	mg/L	0.00007	109	5.35	<0.00007
Dieldrin	mg/L	0.00001	107	4.26	<0.00001
Dicamba	mg/L	0.00001	108	4.64	<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	100	0.02	<0.001
Dioxin	mg/L	0.00001	98.2	3.23	<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	93.5	3.97	<0.0001

Data Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
thods 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:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprngs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM1-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
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	99.7	3.44	<0.0001
PCB-1254	mg/L	0.0001	106	3.18	<0.0001
PCB-1260	mg/L	0.0001	94.0	3.69	<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 NEWBURYPORT
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FLORIDA 32715-0597
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FAX (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Rolling Green - 6094587 — Rosemont-6094905
Public Water System Name _____ OAK FOREST - 6091274
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_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 16099
Sample Location (be specific): Rolling Green Well 1 & 2 - Rosemont Well 1 - Oak Forest Well 1 & 2
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special _____
Sampler Name, Title Phone: John MacLennan of Pearson 904-489-2452

ANALYSIS INFORMATION
Extraction Date 2/1/91
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 2/15/91

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	16099	.00002	<.000005	EPA504.1	.000005	2/7/91
2969	Para-dichlorobenzene	16099	.075	<0.001	EPA502.2	0.001	2/1/91
2976	Vinyl chloride	16099	0.001	<0.001	EPA502.2	0.001	2/1/91
2977	1,1-dichloroethene	16099	0.007	<0.001	EPA502.2	0.001	2/1/91
2980	1,2-dichloroethane	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2981	1,1,1-trichloroethane	16099	0.2	<0.001	EPA502.2	0.001	2/1/91
2982	Carbon tetrachloride	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2984	Trichloroethene	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2987	Tetrachloroethene	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2990	Benzene	16099	0.001	<0.001	EPA502.2	0.001	2/1/91

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	16099		<0.001	EPA502.2	0.001	2/1/91
2212	Dichlorodifluoromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2214	Bromomethane	16099		<0.001	EPA502.2	0.001	2/1/91
2216	Chloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2218	Trichlorofluoromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2224	trans-1,3,-dichloroprop	16099		<0.001	EPA502.2	0.001	2/1/91
2228	cis-1,3-dichloropropene	16099		<0.001	EPA502.2	0.001	2/1/91
2251	Methyl-tert-butylether	16099		<0.001	EPA502.2	0.001	2/1/91
2380	cis-1,2-dichloroethene	16099		<0.001	EPA502.2	0.001	2/1/91
2408	Dibromomethane	16099		<0.001	EPA502.2	0.001	2/1/91
2410	1,1-dichloropropene	16099		<0.001	EPA502.2	0.001	2/1/91
2412	1,3-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2414	1,2,3-trichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2416	2,2-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2931	1,2-dibromo-3-chloropr	16099		<0.001	EPA502.2	0.001	2/1/91
2941	Chloroform	16099		<0.001	EPA502.2	0.001	2/1/91
2942	Bromoform	16099		<0.001	EPA502.2	0.001	2/1/91
2943	Bromodichloromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2944	Dibromochloromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2962	p-xylene	16099		<0.001	EPA502.2	0.001	2/1/91
2964	Methylene chloride	16099		<0.001	EPA502.2	0.001	2/1/91
2965	o-chlorotoluene	16099		<0.001	EPA502.2	0.001	2/1/91
2966	p-chlorotoluene	16099		<0.001	EPA502.2	0.001	2/1/91
2967	m-dichlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2968	o-dichlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2978	1,1-dichloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2979	trans-1,2-dichloroethyl	16099		<0.001	EPA502.2	0.001	2/1/91
2983	1,2-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2985	1,1,2-trichloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2986	1,1,1,2-tetrachloroetha	16099		<0.001	EPA502.2	0.001	2/1/91
2988	1,1,2,2-tetrachloroetha	16099		<0.001	EPA502.2	0.001	2/1/91
2989	Chlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91

2991	Toluene	16099	<0.001	EPA502.2	0.001	2/1/91
2992	Ethylbenzene	16099	<0.001	EPA502.2	0.001	2/1/91
2993	Bromobenzene	16099	<0.001	EPA502.2	0.001	2/1/91
2995	m-xylene	16099	<0.001	EPA502.2	0.001	2/1/91
2996	Styrene	16099	<0.001	EPA502.2	0.001	2/1/91
2997	o-xylene	16099	<0.001	EPA502.2	0.001	2/1/91

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	16099		<.000001	EPA515	.000001	2/14/91
2036	Oxamyl (Vydate)	16099		<0.002	EPA531	0.002	2/14/91
2037	Simazine	16099		<0.007	EPA505	0.007	2/14/91
2040	Picloram	16099		<0.00007	EPA515	0.00007	2/14/91
2041	Dinoseb	16099		<0.00001	EPA515	0.00001	2/14/91
2043	Aldicarb sulfoxide	16099		<0.002	EPA531	0.002	2/14/91
2044	Aldicarb sulfone	16099		<0.002	EPA531	0.002	2/14/91
2045	Metolachlor	16099		<0.0005	EPA505	0.0005	2/14/91
2046	Carbofuran	16099		<0.001	EPA531	0.001	2/14/91
2047	Aldicarb	16099		<0.002	EPA531	0.002	2/14/91
2050	Atrazine	16099		<0.002	EPA505	0.002	2/14/91
2051	Alachlor (Lasso)	16099		<0.0002	EPA505	0.0002	2/14/91
2065	Heptachlor	16099		<.000005	EPA508	.000005	2/14/91
2356	Aldrin	16099		<0.00007	EPA508	0.00007	2/14/91
2364	Dieldrin	16099		<0.00001	EPA508	0.00001	2/14/91
2440	Dicamba	16099		<0.00001	EPA515	0.00001	2/14/91
2959	Chlordane	16099		<0.00001	EPA508	0.00001	2/14/91
9114	Pentachlorophenol	16099		<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	16099		<0.001	EPA508	0.001	2/13/91
2063	Dioxin	16099		<0.00001	EPA613	0.00001	2/13/91
2262	Isophorone	16099		<0.001	EPA609	0.001	2/12/91
2270	2,4-dinitrotoluene	16099		<0.001	EPA609	0.001	2/12/91
2282	Dimethylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2284	Diethylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2290	Di-n-butylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2294	Butyl benzyl phthalate	16099		<0.001	EPA606	0.001	2/12/91
2298	Bis(2-ethylhexyl)phthal	16099		<0.001	EPA606	0.001	2/12/91
2378	1,2,4-trichlorobenzene	16099		<0.001	EPA612	0.001	2/12/91
2388	PCB-1016	16099		<0.0001	EPA505	0.0001	2/13/91
2390	PCB-1221	16099		<0.0001	EPA505	0.0001	2/13/91
2392	PCB-1232	16099		<0.0001	EPA505	0.0001	2/13/91
2394	PCB-1242	16099		<0.0001	EPA505	0.0001	2/13/91
2396	PCB-1248	16099		<0.0001	EPA505	0.0001	2/13/91
2398	PCB-1254	16099		<0.0001	EPA505	0.0001	2/13/91

2400	PCB-1260	16099	<0.0001	EPA505	0.0001	2/13/91
9089	Dioctylphthalate	16099	<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	16099		<0.001	EPA604	0.001	2/12/91
9112	2-methyl-4,6-dinitophe	16099		<0.001	EPA604	0.001	2/12/91
9115	Phenol	16099		<0.001	EPA604	0.001	2/12/91
9116	2,4,6-trichlorophenol	16099		<0.001	EPA604	0.001	2/12/91

Comments:

CHEMICAL LABORATORIES Incorporated

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

(1) Client: Citrus Savings Util.
(2) Address: 9840 W. Citrus Savings Blvd, Citrus Savings, FL 32630
(3) Phone: (904) 489-2452
(4) Public Drinking Water ID: Oak Forest Well #1 & #2
(5) Public Water System Name: OAK FOREST
(6) Project #: Citrus County
(7) PO#: B19018
(8) Public Water System Type: [M] 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
18														X
11									X					

NOTES:
(08) 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 23 YEAR 91
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution ( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap, ( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME: J. MACKENZIE TITLE: OPERATOR PHONE: 904-489-2452
SAMPLER'S SIGNATURE: John C MacKenzie
NOTES:
Complete Oak Forest Wells #1 & #2 with Reservoir well #1
Adding Green wells #1 & 2

(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	
16099	#1	OAK FOREST WELL 1 GAL TUB
	#2	" WELL 1
	#3	" WELL 1
	#4	" WELL 1
	#5	" WELL 2 GAL TUB
	#6	" WELL 2
	#7	" WELL 2
	#8	" WELL 2
	#9	
	#10	

		Date	Time
(16) Collectors Signature:	John C MacKenzie	1/23/91	10:15
(17) Transporters Signature:	Robert Newsom Jr	1/24/91	3:40
(19) Lab Acceptance By:			

OVER FOR INSTRUCTIONS FOR COMPLETION

SSU
SERVICES

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

April 23, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department Of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the second quarterly tests taken for volatile organics per DER Drinking Water Standards 17550 for the following water plants in Citrus County: Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Golden Terrace - composite, Oak Forest, Rosemont and Rolling Green, composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.B. Williams, General manager
Pine Ridge & SSU Citrus County Plants

RBW:sr

Attachments

cc: Charles L. Sweat
Chris Arcand

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Spgs.Util.
9840 N.CitrusSpgBlv
CitrusSpg.FL 32630

Date Reported: Apr 9 1991
PO Number: 891018
PO Number Citrus Spgs.
FDHRS Lab# : 83139
FDEP Lab# : E93018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2 RM-1 PG-1&2
Date Received: Mar28 1991 Lab Number : 16562

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16562
Ethylene dibromide	mg/L	0.000005	82.9	12.3	<0.000005
o-dichlorobenzene	mg/L	0.001	115	2.65	<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

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

Jefferson L. Flowers, P.E.
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	16562	.00002	<.000005	EPA504.1	.000005	4/8/91
2969	Para-dichlorobenzene	16562	.075	<0.001	EPA502.2	0.001	3/30/91
2976	Vinyl chloride	16562	0.001	<0.001	EPA502.2	0.001	3/30/91
2977	1,1-dichloroethene	16562	0.007	<0.001	EPA502.2	0.001	3/30/91
2980	1,2-dichloroethane	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2981	1,1,1-trichloroethane	16562	0.2	<0.001	EPA502.2	0.001	3/30/91
2982	Carbon tetrachloride	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2984	Trichloroethene	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2987	Tetrachloroethene	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2990	Benzene	16562	0.001	<0.001	EPA502.2	0.001	3/30/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Rolling Green - 6094587 - Rosemont - 6094905
Public Water System Name _____ OAK FOREST - 6091274
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 16562
Sample Location (be specific): Rolling Green Well 1+2 - Rosemont Well 1 OAK FOREST Well 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: John Mallonee 904-489-2452

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 4/8/91

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

S S U
SERVICES

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

July 22, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department Of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the third quarterly tests taken for volatile organics per DER Drinking Water Standards 17550 for the following water plants in Citrus County: Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Rosemont and Rolling Green - composite.

If there are any questions, please call.

Sincerely,

R.B. Williams

R.B. Williams, Area Supervisor
Pine Ridge and SSU County Plants

RBW:sr

Attachments

cc: Charles L. Sweat
Chris Arcand

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Springs
9840 N.CitrusSprgs.B
CitrusSprgs,FL 32630

Date Reported: Jul15 1991
PO Number: B91018
PO Number Citrus Co-900
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OAK FOREST
Date Received: Jul 2 1991 Lab Number : 17251

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17251
Ethylene dibromide	mg/L	0.000005	107	7.00	<0.000005
Para-dichlorobenzene	mg/L	0.001	119	3.30	<0.001
Vinyl chloride	mg/L	0.001	93.7	.278	<0.001
1,1-dichloroethene	mg/L	0.001	93.7	.278	<0.001
1,2-dichloroethane	mg/L	0.001	97.3	1.54	<0.001
1,1-trichloroethan	mg/L	0.001	94.7	.774	<0.001
arbon tetrachloride	mg/L	0.001	94.5	.112	<0.001
Trichloroethene	mg/L	0.001	99.0	.225	<0.001
Tetrachloroethene	mg/L	0.001	99.8	1.71	<0.001
Benzene	mg/L	0.001	97.0	.380	<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 Park Forest
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 17251
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 7/12/91

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)
(PWS028)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	17251	.00002	<.000005	EPA504.1	.000005	7/12/91
2969	Para-dichlorobenzene	17251	.075	<0.001	EPA502.2	0.001	7/6/91
2976	Vinyl chloride	17251	0.001	<0.001	EPA502.2	0.001	7/6/91
2977	1,1-dichloroethene	17251	0.007	<0.001	EPA502.2	0.001	7/6/91
2980	1,2-dichloroethane	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2981	1,1,1-trichloroethane	17251	0.2	<0.001	EPA502.2	0.001	7/6/91
2982	Carbon tetrachloride	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2984	Trichloroethene	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2987	Tetrachloroethene	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2990	Benzene	17251	0.001	<0.001	EPA502.2	0.001	7/6/91

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: CITRUS SPRINGS
Address: 9540 N. CITRUS SPRINGS BLVD.
CITRUS SPRINGS, FL. 32630
Phone: 904-489-3072

FCL Client No.
FCL Project Manager: L. SEBECK
FCL Lab Coordinator: S. WELSH
Requested Due Date: ASAP

P.O. Number: [illegible]
Project Name / No.: [illegible]
Contact: [illegible]

Sampled By (PRINT): JOHN MACKENZIE
John MacKenzie 7/1/91
Sampler Signature / Date Sampled

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST
1	COMPOSIT OF ROLLING FLATS 1+2 RESERVOIR WELL 1	11:00	D.W	12751						VOCs
2	OAK FOREST 1+2	8:00								
3	COMPOSIT POW 1-2-3	11:00		12752						
4	GOLDEN TERRACE 1+2									
5	COMPOSIT APPLE ACRES 1+2 CRYSTAL RIVER 1+2	8:00	GROUNDWATER	12753						
6	COMPOSIT PINE RIDGE 2+3	12:00		12754						

CARRIER	BAILERS	SHIP DATES: OUT / DATE	SHIP DATES: RETURNED / DATE
UPS		6/17/91	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] FCL	6/17/91	11:53			

SPECIAL INSTRUCTIONS
NO AIR IN VIALS

SHIP WITH SAMPLES/TO BE R[illegible]NED WITH RESULTS

0364

Rolling Green 142
Rosemont 1 Oak Forest 142 ✓

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
PO Box 217
Dunnellon,FL 32630

Date Reported: Oct15 1991
PO Number: B91018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Oct10 1991 Lab Number : 17957

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17957
Ethylene dibromide	mg/L	0.000005	107	1.55	<0.000005
ara-dichlorobenzene	mg/L	0.001	92.1	2.02	<0.001
Vinyl chloride	mg/L	0.001	109	2.55	<0.001
1,1-dichloroethene	mg/L	0.001	109	2.55	<0.001
1,2-dichloroethane	mg/L	0.001	108	4.12	<0.001
1,1,1-trichloroethan	mg/L	0.001	111	1.32	<0.001
Carbon tetrachloride	mg/L	0.001	109	.847	<0.001
Trichloroethene	mg/L	0.001	101	1.35	<0.001
Tetrachloroethene	mg/L	0.001	97.5	.548	<0.001
Benzene	mg/L	0.001	105	.244	<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

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	17957	.00002	<.000005	EPA504.1	.000005	10/11/91
2969	Para-dichlorobenzene	17957	.075	<0.001	EPA502.2	0.001	10/11/91
2976	Vinyl chloride	17957	0.001	<0.001	EPA502.2	0.001	10/11/91
2977	1,1-dichloroethene	17957	0.007	<0.001	EPA502.2	0.001	10/11/91
2980	1,2-dichloroethane	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2981	1,1,1-trichloroethane	17957	0.2	<0.001	EPA502.2	0.001	10/11/91
2982	Carbon tetrachloride	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2984	Trichloroethene	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2987	Tetrachloroethene	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2990	Benzene	17957	0.001	<0.001	EPA502.2	0.001	10/11/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name _____ Fort
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 17957
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 10/14/91

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

DER /ACPHU Reviewing Offical:

_____

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

SSU
SERVICES

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

July 22, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department Of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Attached please find chemical results for letters of non-compliance for Oak Forest, Apache Shores and Crystal River.

If you have any questions, please call.

Sincerely,

R.B. Williams, Division Supervisor
SSU County Plants

Attachments

cc: Charles L. Sweat w/o attachments
Bill Williams w/o attachments
Frank Sanderson w/o attachments
Chris Arcand w/o attachments

SSU SERVICES

Citrus Springs Office
Customer Service
P.O. Box 217
Dunnellon, FL 32630
(904) 489-4813

June 17, 1991

Ms Cece Featheringill
Environmental Specialist II
Department of Environmental Regulation
4520 Oak Fair Blvd
Tampa, Fl 33610-7347

Dear Ms Featheringill:

In reference to your non-compliance letters written May 31, 1991 and received by me June 10, 1991 regarding the sampling of Primary Organics, Norganics, Turbidity and Secondaries for the water plants at Crystal River, Apache Shores, and Oak Forest, copies of letters attached.

The sampling bottles have been ordered from Flowers Laboratories, Orlando, Florida and as soon as we receive them we will immediately collect the samples and transport to the Lab for tests, and when the results are received we will send to you the copies of the results.

If we can be of further service please don't hesitate to call.

Sincerely,

Robert B. Williams

cc: Charles Sweat
Frank Sanderson
Bill Williams
Hrs-Citrus County Public Health Unit

Florida Department of Environmental Regulation
Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561
Lawton Chiles, Governor Carol Browner, Secretary Richard Garrity, Deputy Assistant Secretary

MAY 31, 1991

SOUTHERN STATES UTILITIES
1000 COLOR PLACE
APOPKA FL 32703

RE: NONCOMPLIANCE LETTER
PWS ID: 6091274 [C]
OAK FOREST

Our records indicate that the above referenced potable water system is overdue for the item(s) listed below.

Samples are to be collected and submitted to a laboratory that has been certified by the Department of Health and Rehabilitative Services for the drinking water analysis appropriate to the group(s) listed below. Please call this office with the sample date and lab name within 14 days of the date of this letter. Failure to sample and submit the laboratory results is a violation of Chapter 17-550 of the Florida Administrative Code.

CONTAMINANT(S)	SAMPLE DUE
PRIMARY ORGANICS	04/01/91
INORGANICS	04/01/91
TURBIDITY	04/01/91
SECONDARIES	04/01/91

If you have any questions or need assistance call the Drinking Water Office at (813)623-5561.

SINCERELY,

CECE FEATHERINGILL
ENVIRONMENTAL SUPERVISOR II

cc: HRS CITRUS COUNTY PUBLIC HEALTH UNIT

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Oak Forest
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 ___;
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: 17256
Sample Location (be specific): _____
Sample Type (check all applicable):
( )Check (X)Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time (X)Plant Tap
( )Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

ANALYSIS INFORMATION
Extraction 7/15/91
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 7/17/91

Mail Results to the Appropriate DER or ACPHU Office:

_____
_____
_____
_____

DER /ACPHU Reviewing Offical:

_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () 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	17256	1	.240	EPA180.1	0.05	7/16/91

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	17256	0.05	<0.0005	EPA206.3	0.0005	7/11/91
1010	Barium	17256	1	.0400	EPA208.1	0.01	7/3/91
1015	Cadmium	17256	0.01	.00500	EPA213.1	0.001	7/3/91
1020	Chromium	17256	0.05	<0.005	EPA218.1	0.005	7/5/91
1025	Fluoride	17256	4	.0508	EPA340.1	0.05	7/11/91
1030	Lead	17256	0.05	.00300	EPA239.2	0.001	7/10/91
1035	Mercury	17256	0.002	.000600	EPA245.1	0.0002	7/11/91
1040	Nitrate(as N)	17256	10	.876	EPA353.1	0.01	07-05-91
1045	Selenium	17256	0.01	<0.0005	EPA270.3	0.0005	7/5/91
1050	Silver	17256	0.05	.00800	EPA272.1	0.005	7/3/91
1052	Sodium	17256	160	3.80	EPA273.1	0.002	7/7/91

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	17256	0.0002	<.000001	EPA508	.000001	7/15/91
2010	Lindane	17256	0.004	<.000001	EPA508	.000001	7/15/91
2015	Methoxychlor	17256	0.1	<0.00001	EPA508	0.00001	7/15/91
2020	Toxaphene	17256	0.005	<0.0001	EPA508	0.0001	7/15/91
2105	2,4-D	17256	0.1	<0.00005	EPA515	0.00005	7/15/91
2110	2,4,5-TP(Silvex)	17256	0.01	<0.00002	EPA515	0.00002	7/15/91

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	17256		53.9	EPA215.1	0.1	7/8/91
1017	Chloride	17256	250	6.75	EPA300.0	0.015	07-08-91
1019	Carbonate_CaCO3	17256		131.0	SM314A	0.1	
1021	Hydroxide_CaCO3	17256		0.0	SM406C	0.01	
1022	Copper	17256	1	.00900	EPA220.1	0.005	7/7/91
1023	Bicarbonate_CaCO3	17256		130.2	SM406C	0.01	
1026	Carbonate_Alkalinity	17256		0.7	SM406C	0.01	

1027	Hydrogen Sulfide	17256			EPA376.1	0.5		
1028	Iron	17256	0.3	.206	EPA236.1	0.01	7/7/91	
1031	Magnesium	17256		3.70	EPA242.1	0.01	7/8/91	
1032	Manganese	17256	0.05	.115 ✓	EPA243.1	0.005	7/7/91	
1055	Sulfate	17256	250	6.83	EPA300.0	0.200	7/5/91	
1095	Zinc	17256	5	.0440	EPA289.1	0.001	7/7/91	
1901	Carbon Dioxide	17256		4.4	SM406C	0.01		
1905	Color (color units)	17256	15	20.0	EPA110.1	5	7/8/91	
1915	Total Hardness	17256		149.7	SM314A	0.1		
1917	NCH as CaCO3	17256		18.7	SM314A	0.1		
1920	Odor (total odor number	17256	3	<1	EPA140.1	1		
1924	Field pH (units)	17256	6.5-8.5		EPA150.1	0.01		
1925	Lab pH (units)	17256	6.5-8.5	7.78	EPA150.1	0.01	7/5/91	
1926	Field Conductivity	17256			-	0.01		
1927	Total Alkalinity	17256		131	EPA310.1	0.1	7/8/91	
1930	TDS	17256	500	186	EPA160.1	2.5	7/16/91	
1931	Phenolphthalein Alk.	17256			EPA310.1	0.1		
1996	Field Temp. (C)	17256		25 -			1	
1997	Langelier Index	17256	-0.2:+0.2	0.32	SM203	0.01		
1998	Saturation Index	17256		7.46	SM203	0.01		
1999	Stability Index	17256		7.14	SM203	0.01		
2909	Foaming Agents	17256	0.5	.105	EPA425.1	0.1	7/12/91	
9996	Field DO	17256			-	0.1		
9997	Field Chlorine	17256			-	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: Citrus Springs
Address: 9540 N. Citrus Springs Blvd
Citrus Springs FL 34434
Phone: [illegible]

FCL Client No.:
FCL Project Manager: L. Seese
FCL Lab Coordinator: S. Nesbit
Requested Due Date:

P.O. Number: [illegible]
Project Name / No.: Oak Forest
Contact: [illegible]

Sampled By (PRINT): JOHN MACKENZIE
Sampler Signature: John E Mackenzie
Date Sampled: 7/1/91

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl			ANALYSES REQUEST: TOX										
1	OAK FOREST	9:00	W	17256																		
2																						
3																						
4																						
5																						
6																						

CARRIER	BAILERS	SHIP DATES: OUT / DATE	RETURNED / DATE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
UPS		7/1/91		[illegible]	7/1	11:58	[illegible] / Flowers	7/2	1:18

SPECIAL INSTRUCTIONS

Re Air Pumps

SHIP WITH SAMPLES/TO BE [illegible]RNED WITH RESULTS

0374

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.
PO Box 217
Dunnellon,FL 32630

Date Reported: Sep 9 1991
PO Number: Oak Forest
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COLOR TB MN
Date Received: Aug26 1991 Lab Num: 7925-7927

REPORT OF ANALYSIS

	Color PCU	Turbidity NTU	Manganese mg/L
Accuracy:	-	86.3	113
Precision:	.000	.000	1.05
Det.Limit:	5	0.05	0.005
Client ID			
Lab Number			
8/19			
7925	8	0.64	0.293
8/20			
7926	<5	0.42	0.18
8/21			
7927	<5	0.49	0.306

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

FLOWERS CHEMICAL LABORATORIES

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD

attn: Bob Williams

CLIENT: Cross Springs Util.	ADDRESS: 6840 N. Lois Spgs. Rd. Lake Spgs, Fl. 32560	PHONE:
PROJECT NAME: Oak Forest	REQUIRED: ☐ Urgent ☒ Routine	DATE: 8/19-20-21/91

Sample Containers QTY	Preservative: HNO3	H2SO4	HCl	Na2S2O3	Zn(C2H3O2)2/NaOH	NaOH/AscAcid		Plastic Containers: 60mL	125mL	250mL	500mL	1L	2L	Whirl-Pak Bag		Glass Containers: 40mL Vial	250mL	500mL	1L	2L	4L		NOTES:
9	✓							✓															
9										✓	✓												

Kit Relinquished:	Date: 8/19/91 Time: 10:30	Kit Received:	Date: Time:

Parameters: Color TB MN

Laboratory Number	Client Identification/Description
	Oak Forest Well #2
	Pull Samples on 3 Consecutive
	Days 6 samples each day
	Sampled - John & Mike Kratz
7925	8/19
7926	8/20
7927	8/21

		Date	Time
Sample Collection:	Oak Forest Well #2	8/19/91	3:00 PM
Transportation:		8/20/91	8:30 AM
Lab Acceptance:		8/21/91	9:00 AM
		8/26/91	8:30

Page ____ of ____

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

461 NEWBURYPORT
P.O. BOX 180-697
ALTAMONTE SPRINGS
FLORIDA 32715-0697
(407) 339-0994
FAX: (407) 260-6110

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: Sep18 1990
PO Number: Oak Forest
PO Number S.S.U.
FDHRS Lab# : 88139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Oak Forest#1
Date Received: Aug30 1990 Lab Number : 15461

REPORT OF ANALYSIS

					15461
Parameter	Unit	Method Detection Limit	%ACC	%PRC	
Gross alpha incl. Ra	pCi/L	1			<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

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):
(X)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___: Secondary Chemical___; Radiological_X_;
Unregulated Organic Purgeable___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable____;
Subcontracted Lab Certification Numbe For Radiological Parameters: HRS13186

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 15461
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 ___/___/____
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 9/18/90

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

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	15461	5	<1	EPA900	1	9/17/90

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS LAb# 83139
NCDEHNR Lab# 296
SCDHEC Lab# 96019

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

(1)Client	(2)Address	(3)Phone
SOUTHERN STATES UTILITIES	1000 COLOR PLACE APOPKA FL	1-800-432-4511

(4)Public Drinking Water ID # 6091274 (5)Public Water System Name: OAK FOREST

(6)Project # (8)Public Water System Type

(7)PO# (✓) Community ( ) Non-Community ( ) Social 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:
16)	1	✓													✓			10 Working Days:
																		5 Working Days :
																		3 Working Days :
																		1 Working Day :
																		Other :

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

(10)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 : GA

(18)Laboratory Number 15461

(11)Client Sample Identification

#1 Oak Forest #1
#2
#3
#4
#5
#6
#7
#8
#9
#10

		Date	Time
(13)Collectors Signature:	x John Elmakyi	9/30	1:05
(14)Transporters Signature:	x John Elmakyi		
(15)Lab Acceptance By:		9/30/90	1:05

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 Now Lab
5356 Hwy 19S
Hernando, Fl. 32614
Lab ID# 02394 John Rankin
12/3/91 10.30H

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: OAK FOREST - SSU SYSTEM I.D. NO: 6091274 SYSTEM PHONE #: 1-489-2452
ADDRESS: FLORAL CITY COUNTY: CITRUS DER DISTRICT: SW
COLLECTOR: JOHN E MACKENZIE COLLECTOR PHONE #: SAME
SAMPLE SITE (Locality or Subdivision): OAK FOREST FLORAL CITY
DATE AND TIME COLLECTED: 12/2/91 12:30
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 (Check Box) [x] Distribution [ ] Raw Repeat Replacement (Check Box) [ ] THTC 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
10	WELL #1	0		26661A		A		
11	WELL #2	0		26661B		A		
12	HPT	1.0		26661C		A		
13	LOT 3 CANAL	0.7		26661D		A		
14	LOT 8 IRUS	0.5		26661E		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
CITRUS SPRINGS UTILITIES
PO BOX 217 DUNNELLON FL.
32630

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

REVIEWING OFFICIAL: Brenda Ball
TITLE: LT

Oakwood - 1702

Brevard County (SSU)

Water

- 1992 FPSC Filing -

Oakwood

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 Brevard County Utilities for Oakwood.

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 10 PM '91
12/5

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Oakwood Manor SYSTEM I.D. NO: 3054100 SYSTEM PHONE #: 427-8319
ADDRESS: Hwy 1 & Beckett Mims Fl. COUNTY: Volusia DER DISTRICT:
COLLECTOR: Burt COLLECTOR PHONE #: 422-8319
SAMPLE SITE (Locality or Subdivision): Same
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) Repeat Replacement Main clearance Well survey Other _____
(Check Box) (Check Box) (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	3115 Bobbie Lane	0.6	8.0	05357		A		
#2	3500 Kittles.	0.6	8.0	05358		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 [illegible] presence of gas or acid
A - Coliforms are absent TNTC - Too numerous to count
INTERPRETATIONS/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

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

REVIEWING OFFICIAL: [signature]
TITLE: Environmental Specialist

HRS Form 655, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 0160-000-0655-5)

Palisades Country Club - 579

Lake County (SSU)

Water

- 1992 FPSC Filing -

Palisades

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	5/91
	8/91
	11/91
	2/92
Turbidity	3/90
Microbiological	12/91
Radionuclide	3/90
Secondary Contaminants	3/90
Unregulated Contaminants	3/90

SSU SERVICES

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

June 24, 1991

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

Re: Lake County PW
Palisades
Quail Ridge

Dear Ms. Browning,

Please find enclosed, results on complete chemical analysis for the above referenced plants. These were done by the contractors before we became owners of these facilities.

Please enter this information in your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

Serving customers of the Citrus Service Company, Deltona, Marco Island, Marion Oaks, Pine Ridge, St. Augustine Shores, Seaboard Southern States, [illegible] and Venice Gardens utilities

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Meredith Environ.
PO Box 15648
Orlando,FL 32858

Date Reported: Apr 9 1990
PO Number: Palasades
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar13 1990 Lab Number : 14854

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14854
Turbidity	NTU	0.05	113	0.00	0.5
Arsenic	mg/L	0.0005	98.3	1.31	<0.0005
Barium	mg/L	0.01	102	1.37	<0.01
Cadmium	mg/L	0.001	104	1.70	<0.001
Chromium	mg/L	0.005	98.0	0.92	<0.005
Fluoride	mg/L	0.005	103	2.80	0.008
Lead	mg/L	0.01	101	2.35	<0.01
Mercury	mg/L	0.0002	102	2.95	<0.0002
Nitrate (as N)	mg/L	0.01	100	0.00	0.45
Selenium	mg/L	0.0005	102	1.30	<0.0005
Silver	mg/L	0.005	105	1.97	<0.005
Sodium	mg/L	0.002	97.0	1.52	5.48
TTHM	mg/L	0.001	104	4.41	<0.001
Ethylene dibromide	mg/L	0.000005	104	3.17	<0.000005
Para-dichlorobenzene	mg/L	0.001	104	4.29	<0.001
Vinyl chloride	mg/L	0.001	107	7.68	<0.001
1,1,-dichloroethene	mg/L	0.001	98.5	1.80	<0.001
1,2,-dichloroethane	mg/L	0.001	103	3.11	<0.001
1,1,1-trichloroethan	mg/L	0.001	102	2.71	<0.001
Carbon tetrachloride	mg/L	0.001	101	1.09	<0.001
Trichloroethene	mg/L	0.001	103	2.84	<0.001
Tetrachloroethene	mg/L	0.001	103	3.77	<0.001
Benzene	mg/L	0.001	103	3.42	<0.001
Endrin	mg/L	0.000001	101	0.44	<0.000001
Lindane	mg/L	0.000001	99.3	0.40	<0.000001
Methoxychlor	mg/L	0.00001	97.2	2.56	<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 G. 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:
Meredith Environ.
PO Box 15648
Orlando,FL 32858

Date Reported: Apr 9 1990
PO Number: Palasades
PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar13 1990 Lab Number : 14854

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14854
Toxaphene	mg/L	0.0001	101	1.56	<0.0001
2,4-D	mg/L	0.00005	101	0.74	<0.00005
2,4,5-TP (Silvex)	mg/L	0.00002	105	2.92	<0.00002
Calcium	mg/L	0.1	98	1.56	84.8
Chloride	mg/L	0.015	105	4.50	12.6
Carbonate_CaCO3	mg/L	0.1			200.3
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	98.7	2.76	<0.005
Bicarbonate _CaCO3	mg/L	0.1			199
Carbonate_Alkalinity	mg/L	0.1			1.3
Hydrogen_Sulfide	mg/L	0.5			-
Iron	mg/L	0.01	103	3.43	0.1
Magnesium	mg/L	0.01	97	0.90	9.9
Manganese	mg/L	0.005	102	1.57	<0.005
Sulfate	mg/L	0.2	100	0.10	1.9
Zinc	mg/L	0.001	99.6	0.39	0.021
Carbon_Dioxide	mg/L	0.1			5.8
Color	mg/L	5	-	-	15
Total_Hardness	mg/L	0.1			252.6
NCH_as_CaCO3	mg/L	0.1			52.3
Odor(TON)	TON	1			<1
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	100	0.33	7.8
Alkalinity	mg/L	0.1	-	0.71	200.3
TDS	mg/L	2.5	103	1.20	233.8
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

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

FLOWERS CHEMICAL LABORATORIES INCORPORATED

[redacted]

Received From:
Meredith Environ.
PO Box 15648
Orlando,FL 32858

Date Reported: Apr 9 1990
PO Number: Palasades
PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar13 1990 Lab Number : 14854

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14854
Langelier_Index	LX	0.01			0.59
Saturation_Index	pHs	0.01			7.24
Stability_Index	pH	0.01			6.65
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	107	7.68	<0.001
Dichlorodifluorometh	mg/L	0.001	104	4.93	<0.001
Bromomethane	mg/L	0.001	107	7.68	<0.001
Chloroethane	mg/L	0.001	107	7.68	<0.001
Trichlorofluorometha	mg/L	0.001	104	4.93	<0.001
trans-1,3,-dichlorop	mg/L	0.001	104	4.58	<0.001
cis-1,3-dichloroprop	mg/L	0.001	106	6.70	<0.001
Methyl-tert-butyleth	mg/L	0.001	103	3.71	<0.001
cis-1,2-dichloroethe	mg/L	0.001	104	4.03	<0.001
Dibromomethane	mg/L	0.001	103	3.06	<0.001
1,1-dichloropropene	mg/L	0.001	102	2.71	<0.001
1,3-dichloropropane	mg/L	0.001	103	3.77	<0.001
1,2,3-trichloropropa	mg/L	0.001	104	3.99	<0.001
2,2-dichloropropane	mg/L	0.001	106	7.10	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	107	7.94	<0.001
Chloroform	mg/L	0.001	104	4.03	<0.001
Bromoform	mg/L	0.001	105	5.25	<0.001
Bromodichloromethane	mg/L	0.001	103	3.06	<0.001
Dibromochloromethane	mg/L	0.001	105	5.31	<0.001
p-xylene	mg/L	0.001	103	3.54	<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
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FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6170

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Meredith Environ.
PO Box 15648
Orlando,FL 32858

Date Reported: Apr 9 1990
PO Number: Palasades
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar13 1990 Lab Number : 14854

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14854
Methylene chloride	mg/L	0.001	102	1.74	<0.001
o-chlorotoluene	mg/L	0.001	104	3.98	<0.001
p-chlorotoluene	mg/L	0.001	104	3.98	<0.001
m-dichlorobenzene	mg/L	0.001	103	3.67	<0.001
o-dichlorobenzene	mg/L	0.001	104	3.98	<0.001
1,1-dichloroethane	mg/L	0.001	106	7.10	<0.001
trans-1,2-dichloroet	mg/L	0.001	104	5.00	<0.001
1,2-dichloropropane	mg/L	0.001	102	2.66	<0.001
1,1,2-trichloroethan	mg/L	0.001	106	6.85	<0.001
1,1,1,2-tetrachloroe	mg/L	0.001	102	2.43	<0.001
1,1,2,2-tetrachloroe	mg/L	0.001	104	3.99	<0.001
Chlorobenzene	mg/L	0.001	102	2.43	<0.001
Toluene	mg/L	0.001	103	3.14	<0.001
Ethylbenzene	mg/L	0.001	103	3.72	<0.001
Bromobenzene	mg/L	0.001	102	2.43	<0.001
m-xylene	mg/L	0.001	103	3.24	<0.001
Styrene	mg/L	0.001	103	3.24	<0.001
o-xylene	mg/L	0.001	103	3.54	<0.001
Dalapon	mg/L	0.000001	99.4	0.37	<0.000001
Oxamyl (Vydate)	mg/L	0.002	108	7.05	<0.002
Simazine	mg/L	0.007	93.6	3.83	<0.007
Picloram	mg/L	0.00007	100	0.23	<0.00007
Dinoseb	mg/L	0.00001	104	2.61	<0.00001
Aldicarb sulfoxide	mg/L	0.002	109	7.79	<0.002
Aldicarb sulfone	mg/L	0.002	106	5.26	<0.002
Metolachlor	mg/L	0.0005	98.9	0.68	<0.0005

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. Rowan, PhD
Jefferson S. Rowan, PhD
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:
Meredith Environ.
PO Box 15648
Orlando,FL 32858

Date Reported: Apr 9 1990
PO Number: Palasades
PO Number
FDHRS Lab# : 93139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar13 1990 Lab Number : 14854

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14854
Carbofuran	mg/L	0.0015	95.4	4.18	<0.0015
Aldicarb	mg/L	0.001	96.7	3.00	<0.001
Atrazine	mg/L	0.002	91.0	5.49	<0.002
Alachlor (Lasso)	mg/L	0.0002	99.1	0.55	<0.0002
Heptachlor	mg/L	0.000005	97.5	1.49	<0.000005
Aldrin	mg/L	0.00007	99.9	0.09	<0.00007
Dieldrin	mg/L	0.00001	92.9	4.27	<0.00001
Dicamba	mg/L	0.00001	101	0.74	<0.00001
Chlordane	mg/L	0.00001	103	3.56	<0.00001
Pentachlorophenol	mg/L	0.005	103	1.77	<0.005
Hexachlorocyclopenta	mg/L	0.005	102	7.27	<0.005
Dioxin	mg/L	0.00001	101	1.44	<0.00001
Isophorone	mg/L	0.005	108	2.01	<0.005
2,4-dinitrotoluene	mg/L	0.005	98.3	1.52	<0.005
Dimethylphthalate	mg/L	0.005	103	8.26	<0.005
Diethylphthalate	mg/L	0.005	106	0.86	<0.005
Di-n-butylphthalate	mg/L	0.005	102	0.59	<0.005
Butyl benzyl phthala	mg/L	0.005	99.7	9.13	<0.005
Bis(2-ethylhexyl)pht	mg/L	0.005	105	0.52	<0.005
1,2,4-trichlorobenze	mg/L	0.005	104	1.81	<0.005
PCB-1016	mg/L	0.0001	106	3.58	<0.0001
PCB-1221	mg/L	0.0001	106	4.16	<0.0001
PCB-1232	mg/L	0.0001	104	3.25	<0.0001
PCB-1242	mg/L	0.0001	104	2.94	<0.0001
PCB-1248	mg/L	0.0001	107	4.80	<0.0001
PCB-1254	mg/L	0.0001	107	4.22	<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 NEWBURYPORT
P. O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Meredith Environ.
PO Box 15648
Orlando,FL 32858

Date Reported: Apr 9 1990
PO Number: Palasades
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar13 1990 Lab Number : 14854

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14854
PCB-1260	mg/L	0.0001	108	5.38	<0.0001
Dioctylphthalate	mg/L	0.005	101	0.09	<0.005
2-chlorophenol	mg/L	0.005	98.2	5.31	<0.005
2-methyl-4,6-dinitop	mg/L	0.005	106	0.76	<0.005
Phenol	mg/L	0.005	97.4	0.18	<0.005
2,4,6-trichloropheno	mg/L	0.005	108	2.86	<0.005

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) 260-0110

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: B91037
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: May31 1991 Lab Number : 17041

REPORT OF ANALYSIS

Vendrom Village, Quail Ridge Palisades 1st Qtr.

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17041
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	80.2	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 SA and EPA approved methodology.

Jefferson B. Flowers, Ph.D.
Technical Director

Page 1 of 1

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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Palisades
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 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 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	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]

PACE, INC.

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-020

Don Corder

(1) Client: Southern States Util.
(2) Address: 1000 Color Place Apopka, FL 32703
(3) Phone: 880-0058 X148
(4) Public Drinking Water ID #:
(5) Public Water System Name: Venetian Gardens/Bridgewater Palms (2nd Qtr. VOA's)
(6) Project #:
(7) PO#: B91037
(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

		Preservative				Plastic Containers						Glass Containers						NOTES:
		HNO3	ZnOAC/NaOH			40ml	125ml	250ml	500ml	1L	Whirl-Pak Bag	40ml	250ml	500ml	1L	2L	4L	
—	X											X						(9) Turn Around Time:
																		10 Working Days:
																		5 Working Days :
																		2 Working Days :
																		1 Working Day :
																		Other :

please composite

(10) Relinquished: (10) Date (10) Time
(11) Received (11) Date (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) 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__

(4) Laboratory Number	(5) Client Sample Identification
7041	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(6) Collectors Signature:	Donna Shaffer	5-30-91	
(7) Transporters Signature:	Donna Shaffer	5-31-91	
(9) Lab Acceptance By:	[illegible]	5-31-91	12:35pm

[illegible] COMPLETION

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: B91037
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

Palisades
~~Quarterly~~ Qtr. VOC.
3rd

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17559
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 S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
461 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: 3354877
Public Water System Name Palisades
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 17559
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 ( )Resampl
( )Special_____
Sampler Name, Title Phone: Lance Shreffler

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:

FDER Lab
FDHRS Lab
INTERIM Lab
SECURED Lab

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
PRIMARY WATER LAB

ATTN: Don Corder

(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) PWS Type: ( ) Community ( ) Non-Community ( ) Special Non-Community
(8) PO#: 891037

	Preservative			Plastic Containers					Glass Containers					
	HNO3	H2SO4	NaOH	60ml	125ml	250ml	500ml	1L	Wheaton 2oz	40ml	250ml	500ml	1L	2L	4L
12										X					

(9) Notes:
Turn Around Times:
10 Working Days:
5 Working Days:
2 Working Days:
1 Working Day:
Other:

(10) Relinquished: (10) Date (10) Time
(11) Received (11) Date (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:
(1 well) Palaccios #579 #3354877
(1 well) Quail Ridge #578 #3354867
(2 wells) Venetian Village #567 #3351426
} please composite

(12) Parameter Group(s) Analyzed: Turbidity ___; Inorganic ___; Trihalomethanes ___; Volatile Organics X
Organic Chemical ___; Secondary Chemical ___; Radiological ___; Unregulated Organics Purgeable ___;
Unregulated Organics Pesticide ___; Unregulated Base Neutral Extractable ___; Unregulated Acid Extractable ___

(13) Laboratory Number	(14) Client Sample Identification
17559	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

(15) Collectors Signature: Lane Shaffer — Date: 8-16-91 — Time: 12:25
(16) Transporters Signature: Lane Shaffer — Date: 8-16-91
(17) Lab Acceptance By: — Date: 8/16/91

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

Palisades
3rd

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18376
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

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

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 — 3rd Quarter

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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3354877
Public Water System Name Palisades
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 18376
Sample Location (be specific): Plant Site - 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 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 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	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# E81139
NCDEHNR Lab# 284
SCDHEC Lab# 99019

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

(1)Client: Williston Stated | (2)Address: 1400 Colon Pl. Apopka 32703 | (3)Phone: 880-0058 ext 148

(4)Public Drinking Water ID #: | (5)Public Water System Name:

(6)Project #: | (8)Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

(7)PO#: PP1037

		Preservative				Plastic Containers						Glass Containers						NOTES:
			HNO3	ZnAc/NaOH			60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	3L	
(16)	1												X						1- Palisades 1- Quail Ridge 2- Venetian Village (Please comp.

(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
18376	#1 578 Well - Quails Ridge
	#2 567 Well #1 - Venetian Village
	#3 567 Well #2 - Venetian Village
	#4 579 Well #1 - Palisades
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	[signature]	11-26-91	10:30 am
(14)Transporters Signature:	[signature]	11-26-91	3:30 pm
(15)Lab Acceptance By:	M M McCoy	11-26-91	3:30 pm

Over for numbered instructions.

SSU SERVICES

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

March 9, 1992

Ms. Marie Carrasquille
State of Florida D.E.R.
3319 Maguire Blvd., Suite 232
Orlando, Fl. 32803

Re: Lake County PW
Quail Ridge - PWS ID # 3354867
Palisades - PWS ID # 3354877

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

Enc.

/plb

cc: Jim Ragsdale
Frank Sanderson
Ralph Terrero
Mel Fisher
File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Pl.
Apopka,Fl 32703

Date Reported: Feb28 1992
PO Number: 114569
PO Number Palisades + Quail Ridge
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Palisades/Quail Ridge
Date Sampled:Jan-143 1757 Date Received:Feb26 1992 Lab Number : 19039

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	19039
Ethylene dibromide	mg/L	0.000005	101	8.92	<0.000005
Para-dichlorobenzene	mg/L	0.001	96.2	1.98	<0.001
Vinyl chloride	mg/L	0.001	96.2	2.84	<0.001
1,1-dichloroethene	mg/L	0.001	96.2	2.84	<0.001
1,2-dichloroethane	mg/L	0.001	96.7	2.98	<0.001
1,1,1-trichloroethan	mg/L	0.001	96.8	.172	<0.001
Carbon tetrachloride	mg/L	0.001	97.7	2.70	<0.001
Trichloroethene	mg/L	0.001	97.9	.728	<0.001
Tetrachloroethene	mg/L	0.001	98.8	1.87	<0.001
Benzene	mg/L	0.001	95.4	1.05	<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: 3354867
Public Water System Name Quail Ridge
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 19039
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: John Hamersand - Maint. - 890-0058

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 2/27/92

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	19039	.00002	<0.000005	EPA504.1	.000005	2.27.92
2969	Para-dichlorobenzene	19039	.075	<0.001	EPA502.2	0.001	2/26/92
2976	Vinyl chloride	19039	0.001	<0.001	EPA502.2	0.001	2/26/92
2977	1,1-dichloroethene	19039	0.007	<0.001	EPA502.2	0.001	2/26/92
2980	1,2-dichloroethane	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2981	1,1,1-trichloroethane	19039	0.2	<0.001	EPA502.2	0.001	2/26/92
2982	Carbon tetrachloride	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2984	Trichloroethene	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2987	Tetrachloroethene	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2990	Benzene	19039	0.001	<0.001	EPA502.2	0.001	2/26/92

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 82139
NCCEHNR Lab# 256
SCCHEC Lab# 96018

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

ATTN: DON

(1)Client: SSU | (2)Address: 1880 Color Pl. Apopka, FL. 32703 | (3)Phone: 880-0058

(4)Public Drinking Water ID #: | (5)Public Water System Name:

(6)Project #: PALISADES | (7)PO#: LPO# 114569

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

PALISADES - 1well
Quail Ridge - 1well
<Composite>

(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 #579
	#2 #579
19039	#3 #579
	#4
	#5 #578
	#6 #578
	#7 #578
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	X [signature]	2-26-92	10:00 - 11:30
(14)Transporters Signature:	X [signature]	2-26-92	1:00
(15)Lab Acceptance By:	[signature]	2/26/92	12:56

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

RECEIVED
DEC 17 1991
INSTALLATION

P.O. No. 13003
LAB USE ONLY
ORL
DEC 11 1 46 PM '91
BY: D. ARRANTS

12/12

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Palisades ✓ #577 SYSTEM I.D. NO: 3354877 SYSTEM PHONE #: 800-432-4501

ADDRESS: US Hwy. 27 COUNTY: Lake DER DISTRICT: Central

COLLECTOR: John Havercost COLLECTOR PHONE #: 800-432-4501

SAMPLE SITE (Locality or Subdivision): Palisades

DATE AND TIME COLLECTED: 12-11-91 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) (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	Well	0.0		055350		A		
T	Tank	1.5		055351		A		
R-1	Club House, Palisades	0.0		055354		A		
R-2	16823 Rockwell Hts	1.0		055355		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 666, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 0760-000-0481-1)

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

Palm Port - 440

Putnam County (SSU)

Water

- 1992 FPSC Filing -

Palm Port

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	10/89
Organic	10/89
Volatile Organic Chemicals	1/91
	4/91
	7/91
	10/91
Turbidity	4/90
Microbiological	12/91
Radionuclide	7/91
Secondary Contaminants	4/90
Unregulated Contaminants	1/91

SSU SERVICES
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	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 3

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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
ARA NEWBERRY, FL
P.O. BOX 1510
ALTAMONTE SPRINGS, FL
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 891028
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.
441 NEWPORT
P.O. BOX
ATLANTIC
FLORIDA 32233-0592
BUS

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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, PhD
Jefferson S. Flowers, PhD
484 Newburyport Rd
P.O. Box 5277
Altamonte Springs
Florida 32716-0527
305 862-5784

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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 Newburyport
P.O. Box 150
Altamonte Springs
Florida 32715-0150
Tel: (407) 862-2854
Fax: (407) 862-2854

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Palm Port
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 18155
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 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	16155	.00002	<0.000005	EPA504.1	.000005	2/19/91
2969	Para-dichlorobenzene	16155	.075	<0.001	EPA502.2	0.001	2/13/91
2976	Vinyl chloride	16155	0.001	<0.001	EPA502.2	0.001	2/13/91
2977	1,1-dichloroethene	16155	0.007	<0.001	EPA502.2	0.001	2/13/91
2980	1,2-dichloroethane	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2981	1,1,1-trichloroethane	16155	0.2	<0.001	EPA502.2	0.001	2/13/91
2982	Carbon tetrachloride	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2984	Trichloroethene	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2987	Tetrachloroethene	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2990	Benzene	16155	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	16155		<0.001	EPA502.2	0.001	2/13/91
2212	Dichlorodifluoromethan	16155		<0.001	EPA502.2	0.001	2/13/91
2214	Bromomethane	16155		<0.001	EPA502.2	0.001	2/13/91
2216	Chloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2218	Trichlorofluoromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2224	trans-1,3,-dichloroprop	16155		<0.001	EPA502.2	0.001	2/13/91
2228	cis-1,3-dichloropropene	16155		<0.001	EPA502.2	0.001	2/13/91
2251	Methyl-tert-butylether	16155		<0.001	EPA502.2	0.001	2/13/91
2380	cis-1,2-dichloroethene	16155		<0.001	EPA502.2	0.001	2/13/91
2408	Dibromomethane	16155		<0.001	EPA502.2	0.001	2/13/91
2410	1,1-dichloropropene	16155		<0.001	EPA502.2	0.001	2/13/91
2412	1,3-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2414	1,2,3-trichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2416	2,2-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2931	1,2-dibromo-3-chloropr	16155		<0.001	EPA502.2	0.001	2/13/91
2941	Chloroform	16155		<0.001	EPA502.2	0.001	2/13/91
2942	Bromoform	16155		<0.001	EPA502.2	0.001	2/13/91
2943	Bromodichloromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2944	Dibromochloromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2962	p-xylene	16155		<0.001	EPA502.2	0.001	2/13/91
2964	Methylene chloride	16155		<0.001	EPA502.2	0.001	2/13/91
2965	o-chlorotoluene	16155		<0.001	EPA502.2	0.001	2/13/91
2966	p-chlorotoluene	16155		<0.001	EPA502.2	0.001	2/13/91
2967	m-dichlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2968	o-dichlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2978	1,1-dichloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2979	trans-1,2-dichloroethyl	16155		<0.001	EPA502.2	0.001	2/13/91
2983	1,2-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2985	1,1,2-trichloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2986	1,1,1,2-tetrachloroetha	16155		<0.001	EPA502.2	0.001	2/13/91
2988	1,1,2,2-tetrachloroetha	16155		<0.001	EPA502.2	0.001	2/13/91
2989	Chlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91

2991	Toluene	16155	<0.001	EPA502.2	0.001	2/13/91
2992	Ethylbenzene	16155	<0.001	EPA502.2	0.001	2/13/91
2993	Bromobenzene	16155	<0.001	EPA502.2	0.001	2/13/91
2995	m-xylene	16155	<0.001	EPA502.2	0.001	2/13/91
2996	Styrene	16155	<0.001	EPA502.2	0.001	2/13/91
2997	o-xylene	16155	<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	Dalacon	16155		<0.000001	EPA515	.000001	2/21/91
2036	Oxamyl (Vydate)	16155		<0.002	EPA531	0.002	2/18/91
2037	Simazine	16155		<0.007	EPA505	0.007	2/21/91
2040	Picloram	16155		<0.00007	EPA515	0.00007	2/21/91
2041	Dinoseb	16155		<0.00001	EPA515	0.00001	2/21/91
2043	Aldicarb sulfoxide	16155		<0.002	EPA531	0.002	2/18/91
2044	Aldicarb sulfone	16155		<0.002	EPA531	0.002	2/18/91
2045	Metolachlor	16155		<0.0005	EPA505	0.0005	2/21/91
2046	Carbofuran	16155		<0.001	EPA531	0.001	2/18/91
2047	Aldicarb	16155		<0.002	EPA531	0.002	2/18/91
2050	Atrazine	16155		<0.002	EPA505	0.002	2/21/91
2051	Alachlor (Lasso)	16155		<0.0002	EPA505	0.0002	2/21/91
2065	Heptachlor	16155		<.000005	EPA508	.000005	2/21/91
2356	Aldrin	16155		<0.00007	EPA508	0.00007	2/21/91
2364	Dieldrin	16155		<0.00001	EPA508	0.00001	2/21/91
2440	Dicamba	16155		<0.00001	EPA515	0.00001	2/21/91
2959	Chlordane	16155		<0.00001	EPA508	0.00001	2/21/91
9114	Pentachlorophenol	16155		<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	Hexachlorocyclopentadi	16155		<0.001	EPA508	0.001	2/21/91
2063	Dioxin	16155		<0.00001	EPA613	0.00001	2/21/91
2262	Isophorone	16155		<0.001	EPA609	0.001	2/14/91
2270	2,4-dinitrotoluene	16155		<0.001	EPA609	0.001	2/14/91
2282	Dimethylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2284	Diethylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2290	Di-n-butylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2294	Butyl benzyl phthalate	16155		<0.001	EPA606	0.001	2/14/91
2298	Bis(2-ethylhexyl)phthal	16155		<0.001	EPA606	0.001	2/14/91
2378	1,2,4-trichlorobenzene	16155		<0.001	EPA612	0.001	2/14/91
2388	PCB-1016	16155		<0.0001	EPA505	0.0001	2/21/91
2390	PCB-1221	16155		<0.0001	EPA505	0.0001	2/21/91
2392	PCB-1232	16155		<0.0001	EPA505	0.0001	2/21/91
2394	PCB-1242	16155		<0.0001	EPA505	0.0001	2/21/91
2396	PCB-1248	16155		<0.0001	EPA505	0.0001	2/21/91
2398	PCB-1254	16155		<0.0001	EPA505	0.0001	2/21/91

2400	PCB-1260	16155	<0.0001	EPA505	0.0001	2/21/91
9089	Dioctylphthalate	16155	<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	16155		<0.001	EPA604	0.001	2/14/91
9112	2-methyl-4,6-dinitophe	16155		<0.001	EPA604	0.001	2/14/91
9115	Phenol	16155		<0.001	EPA604	0.001	2/14/91
9116	2,4,6-trichlorophenol	16155		<0.001	EPA604	0.001	2/14/91

Comments:

To: Jim Meyer, FGUA

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
	Woodlawn	#446	2541280
#3	Duncan 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

WWTP Operations

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 458
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: BS1028
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : ES3019
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3
Date Received: Apr17 1991 Lab Number : 16691

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16691
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.

Jeffrann E. Flowers, Ph.D.
Technical Director

Jeffrann E. Flowers, Ph.D.
Jefferson E. Flowers, Ph.D.
481 NEWBURYPORT
P O BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5986
FAX (407) 260-6191

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Palm Port
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 16691
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/(() 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	16691	.00002	<.000005	EPA504.1	.000005	4/26/91
2969	Para-dichlorobenzene	16691	.075	<0.001	EPA502.2	0.001	4/25/91
2976	Vinyl chloride	16691	0.001	<0.001	EPA502.2	0.001	4/25/91
2977	1,1-dichloroethene	16691	0.007	<0.001	EPA502.2	0.001	4/25/91
2980	1,2-dichloroethane	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2981	1,1,1-trichloroethane	16691	0.2	<0.001	EPA502.2	0.001	4/25/91
2982	Carbon tetrachloride	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2984	Trichloroethene	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2987	Tetrachloroethene	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2990	Benzene	16691	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 # : 91-07-476
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	ICOMP 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 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 # 91-07-176

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

SAMPLE# 016
MATRIX WATER
TEST CODE ICOMP

NUMBER OF SAMPLES COMPOSITED:

	Sample Identification	Date and time
#1	Pamona Park	07/30/91
#2	Hermits Cove	07/30/91
#3	Palm Port	07/30/91
#4	River Grove	07/30/91
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-176

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 # 91-07 176

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

SAMPLE# 02A
MATRIX METHOD BLAN
TEST CODE PW3028

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.

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	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: Palm Port
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: 91-07-476-01A
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 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 3 of 5

1 INVOICE TO: (COMPANY AND INDIVIDUAL)	ADDRESS (CITY, STATE, ZIP)	2 CONTACT PERSON/PHONE # INVOICE	3 OLI WORK ORDER # (LAB USE)
SSU SERVICES	1000 COLOR PLACE APOPKA, FL		9107476
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 POMONA PARK, FL 32181	PAUL THOMPSON	
(OPTIONAL) ADDITIONAL REPORTS SENT TO:	ADDRESS (CITY, STATE, ZIP) 7		
CLIENT PROJECT NAME 8	CLIENT PROJECT # 9		

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
# 2540905 POMONA PARK	7-10-91		✓				WELLS	8	✓	
# 2540482 HERMITS COVE	7-10-91		✓				WELLS	4	✓	
# 2540861 ALTOM PARK	7-10-91		✓				WELLS	4	✓	
# 2540959 RIVER RANCH	7-9-91		✓				WELLS	4	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	PAUL O. THOMPSON	7/11/91 8:00AM	Ron Bourgoin
2nd	Ron Bourgoin	7/31 11:00	Deedee Homan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0437

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 # : 91-10-433
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

BRI ANDT LABORATORIES,INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-133

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	PAMUNA PARK (1 & 2)	10/30/91 13:15
#2	HERMITS COVE (3)	10/30/91 10:40
#3	PALM PORT (4)	10/30/91 09:10
#4	RIVER GROVE (5)	10/30/91 10:10
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-433

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 # 31 [illegible] 133

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 # : 9110633-01A
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	76	76	1

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
Ethylene Dibromide	58	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: 2540865
Public Water System Name: Palm Port
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: 91-10-433
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 [signature]

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 1487 Orlando, FL 32814
407 896-6645 FAX (407) 896-6568

CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ____ of ____

SSU SERVICES P.O. BOX 458 POMONA PARK FL 32181		911433
ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP): SAME	CONTACT PERSON & PHONE # FOR REPORT: PAUL D. THOMPSON	RE NUMBER & AB USE: 5587
(OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP)		
CLIENT PROJECT NAME:	CLIENT PROJECT P.O.#: L114422	

	SAMPLE IDENTIFICATION	DATE/TIME		COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSES: VOC	REMARKS
1-2	POMONA PARK	11:15	10/28/91		✓	✓			WELL	8	✓	
3	HERMITS COVE	10:40	10/28/91		✓	✓			WELL	4	✓	
4	PALM PORT	9:10	10/28/91		✓	✓			WELL	4	✓	
5	RIVER GROVE	10:10	10/28/91		✓	✓			WELL	4	✓	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY
1st	M Baltzley	10/28 1440	Ron Bamford
2nd	Ron Bamford	10-30 1620	Ruth Flemsicki
3rd			

ADDITIONAL REMARKS:

COOLER #s:

SAMPLER'S SIGNATURE:

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0445

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 # : 91-07-278
Date Received: 07/18/91
Date Reported: 07/23/91
OLI Contact: L_BALTZLEY

Work ID: Palm Port
Samples collected by: Client
Total Samples: 1

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Palm Port (440)	G_A Gross Alpha (water)

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: 07/18/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-278

SAMPLE ID Palm Port (440)
DATE COLLECTED 07/18/91 10:00:00
TEST NAME Gross Alpha (water)

SAMPLE# 01A
MATRIX WATER
TEST CODE G A

VERIFIED LD

UNITS pCi/l
ANALYST JK/JB
METHOD: EPA_900.0

DATE ANALYZED: 07/19/91
TIME ANALYZED: 1500

CODE	ELEMENT	RESULT	DET_LIMIT
G_A	Gross Alpha	1.3	0.5
Ctn_Err	Counting Error	+/- 1.0	0.4

Southern States Utilities
Attn: Paul Thompson

Report No: 91-07-278
Page No: 3

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Gross Alpha	0.0	93	07/19/91	JE/JB

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 _____ of _____

1 ADDRESS (CITY, STATE, ZIP)	CONTACT PERSON/PHONE # / INVOICE 2	O.R. WORK ORDER # (LAB USE) 3
SSU Services 1000 Color Place Apopka		9107278
4 REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)	**5 CONTACT PERSON/PHONE # / REPORT**	**6 RB NUMBER (LAB USE)**
SSU Services PO Box 458 Pomona Park Fl. 32181	(904) 649-4143	4492
7 OPTIONAL: ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)		
8 CLIENT PROJECT NAME: Palm Port	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: Gross Alpha	19 REMARKS
Palm Port (44)	7/18/91 10			X			Radionuclides	2	X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	7/5 9:35	
2nd	Roy White	7/18-11:00	Ron Bumgardner
3rd	Ron Bumgardner	7/18 13:00	Debbie Homan

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE: Roy White

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0449

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 # : 90-04-209
Date Received: 04/18/90
Date Reported: 06/05/90
OLI Contact: E_HOBBS

Work ID: Palm Port
Total Samples: 3

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Palm Port	PWS031 Secondary Chem. Analysis
02 Day 1	TURB Turbidity
03 Day 2	

Copy of results to:

Southern States Utilities
Attn: Jerry Boyd
Post Office Box 458
Pamona Park, Florida 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.

Acting
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 04/18/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-04-209

SAMPLE ID Palm Port
DATE COLLECTED 04/18/90 13:00:00
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			140	SM 407	1.0	04/24/90
1019	Carbonate CaCO3			NOT ANALYZED			
1021	Hydroxide CaCO3			NOT ANALYZED			
1022	Copper			<0.010	EPA 200.7	0.010	06/01/90
1023	Bicarbonate CaCO3			NOT ANALYZED			
1025	Fluoride			0.28	EPA 340.2	0.1	04/29/90
1026	Bicarbonate HCO3			NOT ANALYZED			
1027	Hydrogen Sulfide			NOT ANALYZED			
1028	Iron			<0.100	EPA 200.7	0.100	06/01/90
1031	Magnesium			NOT ANALYZED			
1032	Manganese			<0.050	EPA 200.7	0.050	06/01/90
1055	Sulfate			63.7	EPA 375.4	1.0	04/19/90
1095	Zinc			<0.050	EPA 200.7	0.050	06/01/90
1901	Carbon Dioxide			4.5	SM 406 C	1.0	04/30/90
1905	Color (color units)			5	EPA 270.2	5 PCU	04/19/90
1915	Total Hardness			142	EPA 200.7	0.050	06/01/90
1917	NCH as CaCO3			NOT ANALYZED			
1920	Odor			2	EPA 140.1	1	04/19/90
1924	Field pH (units)			NOT ANALYZED			
1925	Lab pH (units)			NOT ANALYZED			
1926	Field Conductivity			NOT ANALYZED			

ORLANDO LABORATORIES,INC.
Received: 04/18/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-04-209
Continued From Above

SAMPLE ID Palm Port
DATE COLLECTED 04/18/90 13:00:00
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			NOT ANALYZED			
1930	TDS			640	EPA 160.1	1.0	04/20/90
1931	Phenolphthalein Alk.			<2.0	EPA 310.1	2.0	04/20/90
1996	Field Temp. (C)			NOT ANALYZED			
1997	Langlier Index pHs			7.72	CALC.	N/A	05/01/90
1998	Saturation Index			NOT ANALYZED			
1999	Stability Index			NOT ANALYZED			
2909	Foaming Agents			<.1	EPA 425.1	0.1	04/20/90
9996	Field OD			NOT ANALYZED			
9997	Field Chlorine			NOT ANALYZED			

Comments:

ORLANDO LABORATORIES,INC.
Received: 04/18/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-04-209

SAMPLE ID	Day 1	SAMPLE #	02A
DATE COLLECTED	04/17/90 14:00:00	MATRIX	WATER

TURB	<1	NTU

SAMPLE ID	Day 2	SAMPLE #	03A
DATE COLLECTED	04/18/90 13:00:00	MATRIX	WATER

TURB	<1	NTU

Southern States Utilities
Attn: Aaron Perlowich

Report No: 90-04-209
Page No: 5

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Turbidity	<1	N/A	04/19/90	KM
Sulfate	8	97	04/19/90	KM
Odor	<1	N/A	04/20/90	KM
Color	<1	N/A	04/19/90	KM
MBAS	<1	110	04/20/90	KM
Total Alkalinity	1	89	04/20/90	KM
TDS	7	104/97	04/20/90	DB
Chloride	3	103	04/24/90	KM
Fluoride	3	94	04/29/90	SRK
Copper	<1	99	06/01/90	BB
Iron	1	104	06/01/90	BB
Manganese	<1	101	06/01/90	BB
Zinc	<1	109	06/01/90	BB
Calcium	1	104	06/01/90	BB

End of Report

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

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

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: PWS031
Subcontracted Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 04/18/90
Laboratory Sample Number: 90-04-209
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): --/--/--
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 6-5-90

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 148127, Orlando, FL 32814
(407) 896-6645 FAX (407) 896-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page _____ of _____ Nº 04898

(INVOICE TO: (COMPANY AND INDIVIDUAL)) ADDRESS (CITY, STATE, ZIP) 1	CONTACT PERSON/PHONE # INVOICE 2	OLI WORK ORDER # (LAB USE) 3
Southern States Utilities Apopka		9004209
ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL) ADDRESS (CITY, STATE, ZIP) 4	CONTACT PERSON/PHONE # REPORT 5	RB NUMBER (LAB USE) 6
" " "		994
(OPTIONAL) ADDITIONAL REPORTS SENT TO: ADDRESS: (CITY, STATE, ZIP) 7		
Jerry Boyd P.O. Box 458 Pomona Park Fl. 32181		
CLIENT PROJECT NAME 8	CLIENT PROJECT # 9	
Palm Port		

SAMPLE IDENTIFICATION 10	DATE/TIME 11	COMP	GRAB	WATER	SOIL	OTHER 12	SAMPLE DESCRIPTION 13	NUMBER OF CONTAINERS 17	REQUESTED ANALYSIS: Secondary, Turbidity 18	REMARKS 19
Palm Port	4/16 1:00			X				3	X	
Day 1	4/17 / 2:00 pm			X				1	X	
Day 2	4/18 / 1:00			X				1	X	

TRANSFER NUMBER	RELINQUISHED BY 14	DATE/TIME 15	ACCEPTED BY 16
1st	[signature]	4/17 848	
2nd	Roy W [signature]	4/18 3:00	Deedee Homan 4/18 1500
3rd			

ADDITIONAL REMARKS 20

COOLER #'s 21

22

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0456

TECHNICAL SERVICES, INC.
PUBLIC DRINKING WATER ANALYSIS REPORTING

PUBLIC WATER SYSTEM INFORMATION - Southern States Utilities (Customer's Name)
Public Water System I.D. Number: Palm Port
Public Water System Name: Southern States Utilities
Public Water System Type (check one): ( ) Community ( ) Non-Community ( ) Special Non-Community

PUBLIC CERTIFICATION INFORMATION:
Lab Certification Number: FDHRS #82145
Parameter Groups Analyzed: (X)Turbidity (X)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): Not Applicable

SAMPLE INFORMATION:
Sample Date (MM/DD/YY): October 27, 1989
Laboratory Sample Number(s): 91540
Sample Location (be specific): Palm Port Plant #440
Sample Type (check all applicable): ( )Check ( )Clearance ( )Raw ( )Regular Distribution ( )Well ( )Plant Tap
( )Maximum Residence Time ( )Composite ( )Resample
( )Special
Sampler's Name & Title: Sampled by customer
Sampler's Company: Southern States Utilities
Sampler's Phone Number: (904) 261-0821

ANALYSIS INFORMATION:
Extraction Date (MM/DD/YY): 11/01/89 (515.1), 11-07-89 (509A)
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: (X)Turbidity (X)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.

James A Burden
Laboratory Director
TECHNICAL SERVICES, INC.

Date: December 5, 1989

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

SOUTHERN STATES UTILITIES
LABORATORY NUMBER 91540

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	91540		8.7	EPA180.1	10-27-89

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	91540		<0.005	EPA206.3	0.005	11-02-89
1010	Barium	91540		0.021	EPA200.7	0.01	11-10-89
1015	Cadmium	91540		<0.005	EPA200.7	0.005	11-10-89
1020	Chromium	91540		0.012	EPA200.7	0.01	11-10-89
1025	Fluoride	91540		0.284	EPA340.2	0.1	11-01-89
1030	Lead	91540		< 0.02	EPA239.2	0.02	11-07-89
1035	Mercury	91540		< 0.0002	EPA245.1	0.0002	10-28-89
1040	Nitrate (as N)	91540		0.054	EPA353.2	0.02	10-27-89
1045	Selenium	91540		<0.005	EPA270.3	0.005	11-02-89
1050	Silver	91540		< 0.01	EPA200.7	0.01	11-10-89
1052	Sodium	91540		59.0	EPA200.7	0.1	11-08-89

Comments:

Lab. Certification #82145
Lab./Sample No.: 91540
Date Reported: December 5, 1989

SOUTHERN STATES UTILITIES
LABORATORY NUMBER 91540

TECHNICAL SERVICES, INC.
2471 Swan Street
Jacksonville, Florida 32204

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	91540		BDL*	509A	0.00002	11-07-89
2010	Lindane	91540		BDL	509A	0.00001	11-07-89
2015	Methoxychlor	91540		BDL	509A	0.0001	11-07-89
2020	Toxaphene	91540		BDL	509A	0.0002	11-07-89
2105	2,4-D	91540		BDL	515.1	0.001	11-02-89
2110	2,4,5-TP (Silvex)	91540		BDL	515.1	0.0005	11-02-89

Comments: * BDL - Below Detection Limit

Lab. Certification #82145
Lab./Sample No.: 91540
Date Reported: December 5, 1989

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

I.D. No. 23003
FOR LAB USE ONLY
Dec 4 1 58 PM '91
BY: B AAZANIS
12/5

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Palm Port SYSTEM I.D. NO: 3540815 SYSTEM PHONE #: 2
ADDRESS: East River Rd. COUNTY: Putnam DER DISTRICT: 2
COLLECTOR: Ray White COLLECTOR PHONE #: 649-4143
SAMPLE SITE (Locality or Subdivision): Subdivision
DATE AND TIME COLLECTED: 12/4/91 8:00 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:

12/6

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	—	7.8	051671	M	A		
2	Dist. 1 Lot 3 Cypress	.8		051672		A		
3	Dist 2 Lot 108 Palm	.6		051673		(P) (1)	(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.

DEC 12 199

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 K. Rollins
Dept. of Env. Regul.

( ) 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 666, Jan 91 (Obsoletes previous editions which may not be used) (Stock Number: 0160-000-0615-8)

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

LD NO. 13603
REC'D ORL
FOR LAB USE ONLY
Dec 3 3 34 PM '91
BY

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Palm Port SYSTEM I.D. NO: 2340865 SYSTEM PHONE #: 649-4143
ADDRESS: E. River Rd COUNTY: Putnam DER DISTRICT: 2
COLLECTOR: R. White COLLECTOR PHONE #: 649-4143
SAMPLE SITE (Locality or Subdivision): Subdivision
DATE AND TIME COLLECTED: 12-9-91 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
Dist. #1 ✓	Lot 107 Palm	1.0	—	~~5516~~ 568		A		
#2 ✓	Lot 108 Palm	1.0	—	~~5519~~ 569		A		
#3 ✓	Lot 110 Palm	1.0	—	~~5520~~ 570		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

LHD
Blanca R. Rodriguez, Engineer
Dept. of Env. Regulation

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

DEC 27 1991
DEC 16 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 665, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 6760-000-6655-1)

Palm Terrace - 1429

Pasco County (SSU)

Water

- 1992 FPSC Filing -

Palm Terrace

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	8/89
Organic	8/89
Volatile Organic Chemicals	1/91
	4/91
	8/91
	10/91
Turbidity	8/89
Microbiological	12/91
Radionuclide	8/89
Secondary Contaminants	8/89
Unregulated Contaminants	8/89

ORLANDO LABORATORIES INC.

RECEIVED AUG 3 0 1989

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 # : 89-08-106
Date Received: 08/09/89
Date Reported: 08/28/89
OLI Contact: E_HOBBS

Work ID: Palm Terrace Pasco County
Total Samples: 4

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report			
01 CL Smith	501R	Trihalomethanes	SD_WC	Secondary (Wet Chem
02 Method Blank	504R	EDB	SE_FUR	Selenium
03 Trip Blank	504U	DBCP	TURB	Turbidity
04 CL Smith (Resample)	524R	DEP .7-550 Regulated VOA		
	524U	DEP .7-550 Unregulated VOA		
	531U	DEP .7-550 Unregulated 531		
	608R	DEP .7-550 Reg. Pesticides		
	608U	DEP .7-550 Unreg Pesticide		
	615R	DEP .7-550 Reg. Herbicides		
	615U	DEP .7-550 Unreg Herbicide		
	622U	DEP .7-550 Unreg OP Pest.		
	625U	DEP .7-550 Unregulated BNA		
	AG_FUR	Silver		
	AS_FUR	Arsenic		
	BA_ICP	Barium		
	CD_FUR	Cadmium		
	CR_FUR	Chromium		
	F	Fluoride		
	G_A_B	Gross Alpha/Gross Beta		
	HG_CV	Mercury		
	NA_ICP	Sodium		
	NO3_N	Nitrogen, Nitrate		
	PB_FUR	Lead		
	RAD223	Radium 223 (water)		
	RAD228	Radium 228 (water)		
	SB_AA	Antimony (AA)		

OLI Florida Department of Health & Rehabilitative Service Identification Numbers are: Drinking Water Certification Number E[illegible], Environmental Certification Number 280037

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Victor Kowalski
VICTOR KOWALSKI
LABORATORY DIRECTOR

Susan M. Lkask
SUSAN LUKASIK
QUALITY CONTROL

The Analytical Specialists

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID [illegible]
DATE COLLECTED 08/09/89 10:00:00

SAMPLE # 01A,B,C,D
MATRIX WATER

AG_FUR 0.010 mg/l	AS_FUR 0.010 mg/l	BA_ICP 0.100 mg/l	CD_FUR 0.005 mg/l	CR_FUR 0.010 mg/l	F .12 mg/l	
HG_CV 0.0005 mg/l	NA_ICP 36.4 mg/l	NO3_N 1.4 mg/l	PB_FUR 0.010 mg/l	SE_FUR 0.005 mg/l		

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME Trihalomethanes

SAMPLE# 01A
MATRIX WATER
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 8/11/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Chloroform	43.0
Bromodichloromethane	3.0
Dibromochloromethane	1.0 U
Bromoform	1.0 U
Total THM's	46.3

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME EDB

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 10
% MOISTURE NA

	RESULT/QUALIFIER
EDB	0.2 U

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME DBCP

SAMPLE# 01A
MATRIX WATER
TEST CODE 504II

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JHN

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 10
% MOISTURE NA

	RESULT	QUALIFIER
DBCP	0.2	U

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME DER 17-550 Unregulated 531 Pest.

SAMPLE# 01A
MATRIX WATER
TEST CODE 53111

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/21/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT\QUALIFIER
Aldicarb	1.0 U
Aldicarb Sulfoxide	1.0 U
Aldicarb Sulfone	1.0 U
Carbofuran	1.0 U
Oxamyl	1.0 U

Jrlando Laboratories, Inc.
Received: 08/05/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME DER 17-550 Reg. Pesticides

SAMPLE# 01A
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/15/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Endrin	0.10 U
Lindane	0.05 U
Methoxychlor	0.50 U
Toxaphene	1.00 U

Work Order # 89-08-106

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID CL Smith
DATE COLLECTED 08/03/89 10:00:00
TEST NAME DER 17-550 Unreg Pesticide

SAMPLE# 01A
MATRIX WATER
TEST CODE 6080J

DATE EXTRACTED 08/14/89
DATE RUN 08/15/89
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHH

	RESULT/QUALIFIER
Aldrin	0.05 U
Chlordane	0.50 U
Dieldrin	0.10 U
Heptachlor	0.05 U
PCB-1016	0.50 U
PCB-1221	0.50 U
PCB-1232	0.50 U
PCB-1242	0.50 U
PCB-1248	0.50 U
PCB-1254	1.00 U
PCB-1260	1.00 U

SURROGATES	%RECOVERY
Dibutylchlorendate	72

Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID: CL Smith
DATE COLLECTED: 08/09/89 10:00:00
TEST NAME: DER 17-550 Reg. Herbicides

SAMPLE#: 01A
MATRIX: WATER
TEST CODE: 615R

SAMPLE TYPE: WATER
UNITS: ug/l
ANALYST: JHW

DATE EXTRACTED: 08/11/89
DATE RUN: 08/14/89
DILUTION FACTOR: 1
% MOISTURE: NA

	RESULT/QUALIFIER
2,4-D	2.0 U
2,4,5-TP (Silvex)	1.0 U

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-105

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME OER 17-550 Unreg Herbicide

SAMPLE# 01A
MATRIX WATER
TEST CODE 615U

DATE EXTRACTED 08/11/89
DATE RUN 08/14/89
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JHW

	RESULT/QUALIFIER
Picloram	10.0 U
Dinoseb	1.0 U
Dicamba	1.0 U
Dalapon	10.0 U

Work Order # 89-08-106

Orlando Laboratories, Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME DER 17-550 Unreg OP Pest.

SAMPLE# 01A
MATRIX WATER
TEST CODE 622U

DATE EXTRACTED 08/14/89
DATE RUN 08/16/89
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

	RESULT/QUALIFIER
Simazine	0.5 U
Atrazine	0.5 U
Alachlor	0.5 U
Metolachlor	0.5 U

Orlando Laboratories,Inc.
Received: 08/03/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME OER 17-550 Unregulated BNA

SAMPLE# 01A
MATRIX WATER
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Phenol	10 U
2-Chlorophenol	10 U
Isophorone	10 U
1,2,4-Trichlorobenzene	10 U
Hexachlorocyclopentadiene	10 U
2,4,6-Trichlorophenol	10 U
Dimethylphthalate	10 U
2,4-Dinitrotoluene	10 U
Diethylphthalate	10 U
2-Methyl-4,6-Dinitrophenol	50 U
Pentachlorophenol	50 U
Di-n-butyl phthalate	10 U
Butyl Benzyl Phthalate	10 U
Bis(2-Ethylhexyl)phthalate	10 U
Di-n-octyl-Phthalate	10 U
2,3,7,8-TCDD	1000 U

SURROGATES	%RECOVERY
2-Fluorophenol	48
Phenol-D5	49
Nitrobenzene-D5	87
2-Fluorobiphenyl	100
2,4,6-Tribromophenol	109
Terphenyl-D14	106

Orlando Laboratories,Inc. REPORT OF ANALYSIS Work Order # 89-03-106
Received: 03/00/89 Results by Sample

PLE ID CL Smith
DATE COLLECTED 03/09/89 10:00:00
TEST NAME Gross Alpha/Gross Beta

SAMPLE# 010
MATRIX WATER
TEST CODE G A B

VERIFIED JAC

ELEMENT	RESULT	DET_LIMIT
Gross Alpha	2.1	0.5
Counting Error	3.2	0.4
Gross Beta	3.6	0.5
Counting Error	3.6	0.4

ANALYST GZT JAB
UNITS pCi/l

AMPLE ID: QL South
ATE COLLECTED: 08/09/89 10:00:00
EST NAME: Radium 226 (Water)

UNITS: pCi/l

Code	Element	RESULT	DET_LIMIT
Rad226	Radium 226	0.9	0.2
Ctn_Err	Counting Error	0.2	0.2

ANALYST: GZT-JAB

rlando Laboratories,Inc.
eceived: 08/09/89

REPORT OF ANALYSIS
Results by Sample

AMPLE ID CL Smith
ATE COLLECTED 08/09/89 10:00:00
EST NAME Radium 228 (water)

SAMPLE# 010
MATRIX WATER
TEST CODE RAD228

UNITS pCi/l

Code	Element	RESULT	DET_LIMIT
Rad228	Radium 228	<0.7	0.7
Ctn_Err	Counting Error	0.09	0.09

ANALYST JAB

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME Secondary (AA) Inorganic

SAMPLE# 01
MATRIX WATER
TEST CODE SD_AA

CODE	METAL	RESULT	UNITS	ANALYST
Cu	Copper	<0.010	mg/l	CJP
Fe	Iron	<0.100	mg/l	CJP
Mn	Manganese	<0.050	mg/l	CJP
Zn	Zinc	<0.050	mg/l	CJP

Irlandc Laboratories,Inc.
Received: 08/03/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID CL Smith
DATE COLLECTED 08/09/89 10:00:00
TEST NAME Secondary (Wet Chem) Inorganic

SAMPLE# 01C
MATRIX WATER
TEST CODE SO WC

Chloride	60	mg/l	CFG
Color-	<5	PCU	DTA
MBAS	<0.1	mg/l	DTA
Sulfate	28	mg/l	DTA
Total Dissolved Solids	380	mg/l	DR
pH (Laboratory)	8.0	UNITS	DTA
Odor Threshold	1	UNITS	DTA
Fluoride-	0.12	mg/l	RJW
Corrosivity	-0.3	N/A	PSO

Orlando Laboratories, Inc.
Received: 08/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Trihalomethanes

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 501R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 8/11/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Chloroform	1.0 U
Bromodichloromethane	1.0 U
Dibromochloromethane	1.0 U
Bromoform	1.0 U
Total THM's	1.0 U

Orland. Laboratories,Inc.
Received: 08/03/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME EDB

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 504R

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

	RESULT/QUALIFIER
EDB	0.02 U

Orlando Laboratories, Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-105

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DBCP

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 504U

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
DBCP	0.02 U

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Regulated VOA

SAMPLE# 020
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

rlando Laboratories,Inc.
eceived: 08/08/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated VOA

SAMPLE# 005
MATRIX METHOD BLANK
TEST CODE 5240U

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 08/11/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Bromobenzene	0.5U
Bromodichloromethane	0.5U
Bromoform	0.5U
Bromomethane	0.5U
Chlorobenzene	0.5U
Chloroethane	0.5U
Chloroform	0.5 U
p-Chlorotoluene	0.5 U
Chloromethane	0.5U
Dibromochloromethane	0.5U
1,1-Dichloroethane	0.5U
trans-1,3-Dichloropropene	0.5U
cis-1,2-Dichloroethene	0.5U
trans-1,2-Dichloroethene	0.5U
1,2-Dichloropropane	0.5U
1,3-Dichloropropane	0.5U
2,2-Dichloropropane	0.5U
cis-1,3-Dichloropropene	0.5U
Ethylbenzene	0.5U
Methylene Chloride	1.0
1,1,2-Trichloroethane	0.5U
Trichlorofluoromethane	0.5U
1,2,3-Trichloropropane	0.5U
Toluene	0.5U
meta-Xylene	0.5U
ortho-Xylene	0.5U
para-Xylene	0.5U
Styrene	0.5U
meta-Dichlorobenzene	0.5U
Ortho-Dichlorobenzene	0.5U
1,1,1,2-Tetrachloroethane	0.5U
1,1,2,2-Tetrachloroethane	0.5U
Methyl tert-butyl-ether	0.5U
1,1-Dichloropropene	0.5U
o-Chlorotoluene	0.5U
Dibromomethane	0.5U
Dichlorodifluoromethane	0.5U

SURROGATES	%RECOVERY
1,2-Dichloroethane	80
Toluene-D8	98
Bromofluorobenzene	90

Orlando Laboratories, Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-100

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated 531

SAMPLE# QCA
MATRIX METHODBLANK
TEST CODE 531U

SAMPLE TYPE WATER
UNITS mg/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/21/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT\QUALIFIER
Aldicarb	1.0 U
Aldicarb Sulfoxide	1.0 U
Aldicarb Sulfone	1.0 U
Carbofuran	1.0 U
Oxamyl	1.0 U

Orlando Laboratories, Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Reg. Pesticides

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 602R

DATE EXTRACTED 08/14/89
DATE RUN 08/15/89
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

	RESULT/QUALIFIER
Endrin	0.10 U
Lindane	0.05 U
Methoxychlor	0.50 U
Toxaphene	1.00 U

NTENTIONALLY LEFT BLANK

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Pesticide

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 6081

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/15/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Aldrin	0.05 U
Chlordane	0.50 U
Dieldrin	0.10 U
Heptachlor	0.05 U
PCB-1016	0.50 U
PCB-1221	0.50 U
PCB-1232	0.50 U
PCB-1242	0.50 U
PCB-1248	0.50 U
PCB-1254	1.00 U
PCB-1260	1.00 U

SURROGATES	%RECOVERY
Dibutylchlorendate	71

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Req. Herbicides

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHH

DATE EXTRACTED 08/11/89
DATE RUN 08/14/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
2,4-D	2.0 U
2,4,5-TP (silvex)	1.0 U

Orlando Laboratories, Inc.
Received: 08/03/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg Herbicide

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE 6150

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JHW

DATE EXTRACTED 08/11/89
DATE RUN 08/14/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Picloram	10.0 U
Dinoseb	1.0 U
Dicamba	1.0 U
Dalapon	10.0 U

Orlando Laboratories, Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME DER 17-550 Unreg OP Pest.

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 6220

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 08/14/89
DATE RUN 08/16/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Simazine	0.5 U
Atrazine	0.5 U
Alachlor	0.5 U
Metolachlor	0.5 U

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME OER 17-550 Unregulated BNA

SAMPLE# 02A
MATRIX METHODBLANK
TEST CODE 625U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 08/14/89
DATE RUN 08/17/89
DILUTION FACTOR 1
% MOISTURE NA

	RESULT/QUALIFIER
Phenol	10 U
2-Chlorophenol	10 U
Isophorone	10 U
1,2,4-Trichlorobenzene	10 U
Hexachlorocyclopentadiene	10 U
2,4,6-Trichlorophenol	10 U
Dimethylphthalate	10 U
2,4-Dinitrotoluene	10 U
Diethylphthalate	10 U
2-Methyl-4,6-Dinitrophenol	50 U
Pentachlorophenol	50 U
Di-n-butyl phthalate	10 U
Butyl Benzyl Phthalate	10 U
Bis(2-Ethylhexyl)phthalate	10 U
Di-n-octyl-Phthalate	10 U
2,3,7,8-TCDD	1000 U

SURROGATES	%RECOVERY
2-Fluorophenol	65
Phenol-D5	80
Nitrobenzene-D5	70
2-Fluorobiphenyl	86
2,4,6-Tribromophenol	98
Terphenyl-D14	105

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
Results by Sample

Work Order # 89-08-106

SAMPLE ID	CL Smith (Resample)	SAMPLE #	04A
DATE COLLECTED	08/22/89 08:00:00	MATRIX	WATER

TURB	<1	NTU

Orlando Laboratories,Inc.
Received: 08/09/89

REPORT OF ANALYSIS
NonReported Work

Work Order # 89-08-106

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01C : NOTEST
02A : NOTEST

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-17-1989

LAB SAMPLE # : 8908106-01A
ANALYSIS DATE : 08/17/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	101	51	102	51	1
2-chlorophenol	200	0	111	56	132	66	17
1,4-dichlorobenzene	100	0	72	72	79	79	9
n-nitroso-di-n-propylamine	100	0	66	66	62	62	6
1,2,4-trichlorobenzene	100	0	77	77	85	85	10
4-chloro-3-methylphenol	200	0	74	37	78	39	5
acenaphthene	100	0	79	79	86	86	8
4-nitrophenol	200	0	171	86	138	69	21
2,4-dinitrotoluene	100	0	92	92	84	84	9
pentachlorophenol	200	0	240	120	200	100	18
pyrene	100	0	81	81	80	80	1

COMMENTS :

ORLANDO LABORATORIES INC.
820 HUMPHRIES AVE.
ORLANDO FL 32803
407-896-6645

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-18-1989

LAB SAMPLE # : 8908131-2A
ANALYSIS DATE : 08/17/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ethylene dibromide	100	0	66	66	69	69	22

COMMENTS :

ORLANDO LABORATORIES, INC.
820 HUMPHRIES AVE.
ORLANDO FL 32703
407-896-6645

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-18-1989

LAB SAMPLE # : 8908106-01A
ANALYSIS DATE : 08/16/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
dioxins	100	0	32	32	78	78	84

COMMENTS :

ORLANDO LABORATORIES, INC.
820 HUMPHRIES AVE.
ORLANDO FL 32703
407-896-6645

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-21-1989

LAB SAMPLE # : 8908106-01A
ANALYSIS DATE : 08/15/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
lindane	100	0	110	110	86	86	24
heptachlor	100	0	92	92	77	77	18
aldrin	100	0	72	72	58	58	22
dieldrin	100	0	94	94	78	78	29
endrin	100	0	169	169	136	126	29
4,4'-ddt	100	0	34	34	27	27	23

COMMENTS :

ORLANDO LABORATORIES, INC.
820 HUMPHRIES AVE.
ORLANDO FL 32703
407-896-6645

Southern States Utilities
Attn: Aaron Perlowich

Report No: 89-06-106

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Turbidity	<1	N/A	08/22/89	PSO
Chromium	2	104	08/14/89	JC/CP
Silver	<1	102	08/15/89	JC
Lead	2	93	08/15/89	JC
Cadmium	<1	94	08/17/89	JH
Arsenic	<1	112	08/17/89	JH/JC
Mercury	<1	91	08/16/89	JH
Selenium	<1	95	08/20/89	CJP
Copper	1	102	08/20/89	CJP
Manganese	<1	100	08/20/89	CJP
Zinc	1	102	08/20/89	CJP
Barium	<1	98	08/20/89	CJP
Iron	<1	99	08/20/89	CJP
Sodium	1	98	08/20/89	CJP
Chloride	<1	96/100	08/10/89	CFG
MBAS	<1	92	08/10/89	DA
Turbidity	<1	N/A	08/10/89	DA
Odor	<1	N/A	08/10/89	DA
Color	<1	N/A	08/10/89	DA
Sulfate	<1	97/100	08/10/89	DA
Fluoride	2	89	08/10/89	RJW
Nitrate Nitrogen	3	97/98	08/15/89	CFG
TDS	3	93	08/17/89	DR
Gross Alpha	2.1 *	89	08/18/89	JAB
Gross Beta	0.3 *	106	08/18/89	JAB
Radium 226	1.1 *	91	08/21/89	JAB
Radium 228	0 *	101	08/18/89	JAB

* The duplicates for these parameters are the actual differences rather than the percent differences as specified.

End of Report

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

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 08-16-1989

LAB SAMPLE # : 8908075-01A
ANALYSIS DATE : 08/14/89

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
2,4,5-TP (SILVEX)	100	0	58	58	81	81	33

COMMENTS :

ORLANDO LABORATORIES, INC.
820 HUMPHRIES AVE.
ORLANDO FL 32703
407-896-6645

CHAIN-OF-CUSTODY RECORD

Page ____ of ____ № 01778

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando, FL 32814
(407) 896-5645 · FAX (407) 898-6588

INVOICE TO: Southern States Utilities	ADDRESS 1000 Color Place Apopka FL	CONTACT/PHONE # 1-800-432-4501	OLL.WORK ORDER #: 8908106
REPORT TO: Frank Sanderson	ADDRESS 1000 Color Place Apopka FL		RS NUMBER
CLIENT PROJECT NAME: CL Smith (well)	CLIENT PROJECT #		
CLIENT PROJECT LOCATION: Port Richey FL. 10822 Premier			

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: Turbidity	REMARKS
	CL Smith	8/22	8:30							X	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	8/22/89 1:15		J. Schmidt	8/22/89 1:15
	Larry Ramey			

ADDITIONAL REMARKS

Larry Ramey
SAMPLER'S SIGNATURE

Rev 10/89

Original - Client

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando, FL 32814
(407) 396-6645 FAX (407) 898-6588

CHAIN-OF-CUSTODY RECORD

Page ____ of ____ № 01209

INVOICE TO: Southern States	ADDRESS: 1000 Cobb Place, on File	CONTACT/PHONE #: 880-0400	OLI WORK ORDER #: 8908166
REPORT TO: Same	ADDRESS: (Frank Sanderson)		RB NUMBER: 2030
CLIENT PROJECT NAME: Palm Terrace	CLIENT PROJECT #:		
CLIENT PROJECT LOCATION: Pasco County, City of Port Richey			

LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS: Per 1550	Trans Org	Vinyl Chl Org	Primary Inverse	Recoverable	Surfactants	Ext 226	Ext 227	Turbidity	REMARKS
	C.L. Smith	8/9	10:00		✓	✓		Full 1550 A.I		✓	✓	✓	✓	✓	✓	✓	✓	✓	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	Lanny Laney	8/9/89 1420		8/9/89 1420

ADDITIONAL REMARKS:

Lanny Laney

Original - Client
Yellow - Lab

Rev 03/89

0504

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

1st Qrtr V.O.C.

Received From:

SSU
8234 Causeway Blvd.
Tampa,FL 33619

Palm Terrace (C.C.Smith)

Date Reported: Feb 8 1991
PO Number: B-91024

PO Number
FDHRS Lab# : B3139
FDER Lab# : E83018
NCDEHNR Lab# : 296
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

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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6511330
Public Water System Name Palm Terrace (C.L. Smith)
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):
Laboratory Sample Number 16146
Sample Location (be specific): well C.L. Smith Premier Dr.
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: Larry Ramsey
813-565-7342

ANALYSIS INFORMATION
Extraction Date 1/29/91
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 2/7/91

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

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# E83015
FDHRS Lab# 82150
NCDEHNR Lab# 256
SCDHEC Lab# 96018

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

(1)Client	(2)Address	(3)Phone
SSO	1000 COLOR PLACE Apopka, FL. 32703	1-800-432-4599
(4)Public Drinking Water ID # 6511330	(5)Public Water System Name: C.L. SMITH	
(6)Project # PASCO COUNTY	(6)Public Water System Type	
(7)PO#	(X) Community ( ) Non-Community ( ) Special Non-Community	

(9)	(2)	Preservative			Plastic Containers						Glass Containers						NOTES:
		HNO3	ZnOAC/NaOH		60ml	1L	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
											X					X	Lab Composite 1 Sample 2 wells

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

(10)Kit Relinquished:	(10)Date	(11)Kit Received	(11)Date 11/25/91
	(10)Time		(11)Time 3:00 PM

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 11 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: Larry Ramsey TITLE: Operator II PHONE: (813) 567-7542
SAMPLER'S SIGNATURE: Larry Ramsey
NOTES: VOC's ONLY
DO NOT COMPOSITE WITH OTHER WELLS (ATTN: MIKE LANE)
Dump 4 L.

(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
96146	#1 WELL - RAW - VOC
	#2 1 4L BROWN JUG
	#3 4 40 ML CONTAINERS
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16)Collectors Signature:	Larry Ramsey	11/29/91	10:45am
(17)Transporters Signature:	Mike L Varela	11/29/91	
(19)Lab Acceptance By:	Brenda Goolsby	11/29/91	2:55 pm

Steve Welsh 12/2/91

OVER FOR INSTRUCTIONS FOR COMPLETION

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 83130
NCDEHNR Lab# 284
SCDHEC Lab# 96018

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

(1)Client	(2)Address	(3)Phone
SSU	1000 COLOR PLACE APOPKA, FL. 32703	1-800-432-4501

(4)Public Drinking Water ID # 6511330 (5)Public Water System Name: C.L. SMITH

(6)Project # PASCO COUNTY

(7)PO#

(8)Public Water System Type
(X) Community ( ) Non-Community ( ) Special Non-Community

(9)	②	Preservative: HNO3	ZnOAc+NaOH	Plastic Containers: 60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	Glass Containers: 40ml	250ml	500ml	1L	2L	4L
										X					X

NOTES: LAB Composite
1 Simple 2well

(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 11/25/91 (11)Time 3:00 pm

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 11 DATE 29 YEAR 91
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution
( ) composite, ( ) clerance, ( ) max residence time, ( ) plant tap,
(X) raw, (X) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME: LACRY RAMSEY TITLE: OPERATOR II PHONE: (813) 262-7342
SAMPLER'S SIGNATURE: Lacry Ramsey
NOTES: VOC'S ONLY
DO NOT COMPOSITE WITH OTHER WELLS (ATTN: MIKE LANE)
Dump 4 L.

(13)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__;

(14)Laboratory Number	(15)Client Sample Identification
16146	#1 WELL - RAW - VOC
	#2 1 4L AMBER JUG
	#3 4 40 ML CONTAINERS
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16)Collectors Signature:	Lacry Ramsey	11/29/91	10:00 am
(17)Transporters Signature:	David K Reed	11/29/91	
(19)Lab Acceptance By:	Brenda Goodbody	12/2/91	2:55 pm

Steve Welsh 12/2/91

0509

OVER FOR INSTRUCTIONS FOR COMPLETION

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Palm Terrace

Date Reported: May14 1991
PO Number: 891024
PO Number S.S.U.
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Apr30 1991 Lab Number : 16802

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16802
Ethylene dibromide	mg/L	0.000005	110	6.81	<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.
Method: 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
(407) 339-5984
FAX (407) 260-6110

2nd QTR

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6511330
Public Water System Name Palm Terrace (Sun. Services)
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): 4-30-91
Laboratory Sample Number 16802
Sample Location (be specific): well at Premiere Inn.
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time (X)Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Loren Ramsey Oper. II
(813) 352-4441

ANALYSIS INFORMATION
Extraction Date 5/6/91
Laboratory Cont Dr. J.S. Flowers
Resample Requested? (che ()Yes (X) No
ANALYSIS SUBMITTEL Turbidity___;Inorganic___; Trihalomethane ___;
Volatile Organic_Y_; 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	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:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 83130
NCDEHNR Lab# 256
SCDHEC Lab# 96018

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

Dewey Chancey

(1) Client	(2) Address	(3) Phone
SSU	1003 Colonial Pl Apopka Fl 32703	(813) 855-2504

(4) Public Drinking Water ID #	(5) Public Water System Name: 1427 1429
(6) Project #	(8) Public Water System Type
(7) PO# 91024	(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	(8) Turn Around Time:
9													X						10 Working Days:
																			5 Working Days :
																			3 Working Days :
																			1 Working Day :
																			Other :

(11) Relinquished:	(10) Date / (11) Time	(12) Received	(11) Date / (11) Time
Laurie Lebeck	4-10-91 1:30pm		

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 top,
(X) raw, (X) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: EDWARD EBERL TITLE: _____ PHONE: 838/2504
SAMPLER'S SIGNATURE: Edward Eberl
NOTES:

COMPOSITE SAMPLES

VOC'S

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethanes__; 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
16802	#2 2/H 15 1427 ZEPHYRHILLS 6 BOTTLES
	#3 1429 3 BOTTLES
	#4 TO BE COMPOSITES
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	Edward Eberl	4/30	2:00
(17) Transporters Signature:	Edward Eberl	4/30	2:10
(19) Lab Acceptance By:			

OVER FOR INSTRUCTIONS FOR COMPLETION

CHEMICAL LABORATORIES INCORPORATED

3rd. Qtr. C.L. Smith/Elmar.
4t Palm Terrace

Received From:
SSU
2424 82nd St.S
Tampa,FL 33619

Date Reported: Aug 7 1991
PO Number: 8-91024
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: Aug 1 1991 Lab Number : 17441

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17441
Ethylene dibromide	mg/L	0.000005	95.9	8.50	<0.000005
Para-dichlorobenzene	mg/L	0.001	80.6	3.03	<0.001
Vinyl chloride	mg/L	0.001	96.0	2.52	<0.001
1,1-dichloroethene	mg/L	0.001	96.0	2.52	<0.001
1,2-dichloroethane	mg/L	0.001	85.0	.382	<0.001
1,1,1-trichloroethan	mg/L	0.001	85.1	2.26	<0.001
Carbon tetrachloride	mg/L	0.001	84.8	4.93	<0.001
Trichloroethene	mg/L	0.001	84.9	.861	<0.001
Tetrachloroethene	mg/L	0.001	84.7	1.54	<0.001
Benzene	mg/L	0.001	103	.480	<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 1 of 1

Jefferson L. Rosen, Ph.D.
Jefferson S. Rosen, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6190

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6511330 C.L. Smith Well
Public Water System Name _____
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): 9-18-91
Laboratory Sample Number 17441
Sample Location (be specific): C.L. Smith Well Premier DR.
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____

ANALYSIS INFORMATION
Extraction Date 9/3/91
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 Andrew B. Harrison
Title Laboratory Manager
Laboratory Flowers Chemical Laboratories,Inc.
Date 8/7/91

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

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:

3RD

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

FDER Lab# 203018
FDHR Lab# 83139
NCDEHNR Lab# 390
SCDHEC Lab# 96012

Attn: Dennis Fuller

(1) Client: S-CL Services
(2) Address: 2424-82nd ST S. Tampa FL 33619
(3) Phone: (813) 858-2504

Public Drinking Water ID #:
Project #: 0B-91024
(5) Public Water System Name:
(6) 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 Bag		40ml	250ml	500ml	1L	2L	4L
3	4								X					

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

13 VOA.
PLZ Comp

(10) Relinquished: [signature] 7/91
(10) Date: 7-17
(10) Time:
(11) Received:
(11) Date:
(11) Time:

(12) LINE INFORMATION; SAMPLE DATE: MONTH 7 DATE 31 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: DAVE BARRETT TITLE: OPERATOR PHONE: 813-558-2504
SAMPLER/S SIGNATURE: David Barrett
COMPOSITE
PALM TERRACE # 1429
ZEPHRYHILLS # 1427

(13) Chapter(s) Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organic X;
Regulated Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Regulated Organic Pesticide__; Unregulated Base/Neutral Extractable__; Unregulated Acid Extractable__;

Laboratory Number	(15) Client Sample Identification
7441	#1 PALM TERRACE # 1429 WELL
	#2 ZEPHRYHILLS # 1427 WELL # 1
	#3 ZEPHRYHILLS # 1427 WELL # 2
	#4
	#5
	#6
	#7
	#8
	#9
	#10

	Signature	Date	Time
(14) Collector's Signature:	David Barrett	7-19-91	
(16) Transporter's Signature:	[signature]	7/19/91	1107
(17) Accepted by:			

OVER FOR INSTRUCTIONS FOR COMPLETION

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
2424 82nd St.S
Tampa,FL 33619

Date Reported: Oct22 1991
PO Number: B91024
PO Number 1427-1429
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1427-1429
Date Received: Oct17 1991 Lab Number : 18047

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18047
Ethylene dibromide	mg/L	0.000005	96.2	2.27	<0.000005
Para-dichlorobenzene	mg/L	0.001	96.5	6.36	<0.001
Vinyl chloride	mg/L	0.001	99.7	3.54	<0.001
1,1-dichloroethene	mg/L	0.001	99.7	3.54	<0.001
1,2-dichloroethane	mg/L	0.001	99.2	4.72	<0.001
1,1,1-trichloroethan	mg/L	0.001	101	1.80	<0.001
Carbon tetrachloride	mg/L	0.001	100	2.23	<0.001
Trichloroethene	mg/L	0.001	101	1.44	<0.001
Tetrachloroethene	mg/L	0.001	80.4	2.80	<0.001
Benzene	mg/L	0.001	97.0	1.56	<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) 260-0110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6511330
Public Water System Name C.L. Smith (Palm Terrace)
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): C.L. Smith Well At Premier DR
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resample
( )Special_____
Sampler Name, Title Phone:_____
_____

ANALYSIS INFORMATION
Extraction Date 10/18/91
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 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/(() 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:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

4 +L / Q+R.

FDER Lab# E83018
FDHRS Lab# 83100
NCDEHNR Lab# 296
SCDHEC Lab# 92019

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

(1)Client	(2)Address	(3)Phone
SSU	3427 82nd Street South Tampa Fl. 33619	813-626-4612

(4)Public Drinking Water ID # | (5)Public Water System Name:

(6)Project # 1427-1429 | (8)Public Water System Type

(7)PO# B-91024 | (X) Community ( ) Non-Community ( ) Special Non-Community

		Preservative			Plastic Containers						Glass Containers						NOTES:
Rel. Inits	Field	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)	2	b									✓						

(17)Kit Relinquished:	(17)Date	(17)Time	(9)Kit Received	(9)Date	(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
18047 1	#1 COMPOSITE 1427-1429
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	Diana D Edwards	10/16/91	3:00 PM
(14)Transporters Signature:	Edward Gonsh	10/17/91	1:10 PM
(15)Lab Acceptance By:		10/17/91	1915

Over for numbered instructions.

WATER BACTERIOLOGY
PASCO COUNTY ENVIRONMENTAL LABORATORY
8944 GOVERNMENT DR. - NEW PORT RICHEY, FL 34654
(813) 847-8902; [illegible]
LABORATORY ID# 84237; 844123

DATE COLLECTED	TIME	COLLECTION	TIME RECEIVED	DATE TESTED	TIME TESTED
12-1-91	7:25	LARRY RAMSEY	10:20	12-3-91	3:50 PM

TYPE OF SUPPLY	COMMUNITY	NON-COMM	NON-TRANSIENT - NON COMM	PRIVATE WELL	BATHING POOL	BOTTLED WATER	OTHER
	✓						

NAME OF S/D OR LOCALITY BEING SAMPLED	NAME OR LOCATION OF WATER PLANT	SYSTEM ID #
C.L. SMITH	PREMIER GOLF COURSE A	6511390

TYPE OF SAMPLE	COMPLIANCE	REPEAT	REPLACEMENT	BAR CHLORINATED	WELL SURVEY	OTHER (SPECIFY)
	✓					

DISTRIBUTION	TNTC OR C
✓	

RAW	TURBID
✓	

OTHER

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT
S.S.U. SERVICES
1000 COLOR PLACE
APOPKA, FL. 32703

LAB. NO.	COLL. NO.	SAMPLE POINT	Cl RESIDUAL	PH	NON COLIFORM	TOTAL	CONFIRM TOTAL	CONFIRM FECAL	METHOD
5259	1	C.L. SMITH WELL		7.3	A	A			MF
52100	2	STORAGE TANK	1.0	7.2	A	A			MF
5261	3	7016 PREMIER	0.7	7.3	A	A			MF
5262	4	7201 RHIEBECK	0.6	7.3	A	A			MF

REMARKS:

Reviewing Official: _____

Title: _____

- ☐ SATISFACTORY
- ☐ INCOMPLETE COLLECTION INFORMATION
- ☐ REPEAT SAMPLES
- ☐ REPLACEMENT SAMPLES

WATER BACTERIOLOGY
PASCO COUNTY ENVIRONMENTAL LABORATORY
8964 GOVERNMENT DR. · NEW PORT RICHEY, FL 34654
(813) 847-8902
LABORATORY ID# 54237; 54123

DATE COLLECTED	TIME	COLLECTOR	TIME RECEIVED	DATE TESTED	TIME TESTED
12-3-91	9:35	Lacey Ramsey	10:20	12-3-91	3:55 pm

TYPE OF SUPPLY	COMMUNITY	NON-COMM	NONTRANSIENT - NON COMM	PRIVATE WELL	SWIMMING POOL	BOTTLED WATER	OTHER
	✓						

NAME OF S/D OR LOCALITY BEING SAMPLED	NAME OF LOCATION OF WATER PLANT	SYSTEM ID #
Palm Terrace	Rancho Port Richey FL	6511321

TYPE OF SAMPLE						OTHER (SPECIFY)
	COMPLIANCE ✓	REPEAT	REPLACEMENT	MAIN CLEARANCE	WELL SURVEY	
	DISTRIBUTION ✓		TATIC OR C			
	RAW		TURBID			
			OTHER			

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT
S.S.U. Shermer
1000 Collage Place
Apollo, FL 32703

LAB. NO.	COLL. NO.	SAMPLE POINT	CL RESIDUAL	PH	NON COLIFORM	TOTAL	CONFIRM TOTAL	CONFIRM FECAL	METHOD
52603	5	7610 Abbottsville	0.9	7.5	A	A			MF
52604	6	7611 Birchwood	0.6	7.3	A	A			MF

REMARKS:

Reviewing Official: _____

Title: _____

- ☐ SATISFACTORY
- ☐ INCOMPLETE COLLECTION INFORMATION
- ☐ REPEAT SAMPLES
- ☐ REPLACEMENT SAMPLES

Palms Mobile Home Park - 559

Lake County (SSU)

Water

- 1992 FPSC Filing -

Palm Mobile Home

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
	4/91
	7/91
	10/91
Turbidity	1/91
Microbiological	12/91
Radionuclide	1/91
Secondary Contaminants	1/91
Unregulated Contaminants	1/91

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: Palms Mobile Homes PWS ID #3350981

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, Primary and Secondary Analysis for the above referenced facility.

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

ORLANDO LABORATORIES INC.

File

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Work Order # : 91-01-315
Date Received: 01/23/91
Date Reported: 02/06/91
OLI Contact: L_BALTZLEY

Attn: Aaron Perlovich

Work ID: 559 Palm Mobile Homes PWS 3350781 (10th)
Total Samples: 2

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Distribution	1_COMP Composite Data For Samples
02 Method Blank	PWS026 Turbidity Analysis
	PWS028 Volatile Organic Analysis
	PWS029 Organic Chemical Analysis
	PWS030 Inorganic Analysis
	PWS031 Secondary Chem. Analysis
	PWS033 Radiological Analysis
	PWS034 Unreg-Organic Purgeable
	PWS035 Unreg-Organic Pesticides
	PWS036 Unreg-Base Neutral Extract
	PWS037 Unreg-Acid Extractable

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 83141. Environmental Certification Number E83032

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

Acting
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

Dedicated To Excellence

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

ORLANDO LABORATORIES, INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Composite Data For Samples

SAMPLE# 01A
MATRIX WATER
TEST CODE 1 COMP

NUMBER OF SAMPLES COMPOSITED: 5

	Sample Identification	Date & Time Collected
#1	PICCIOLA ISLAND WELL #1	01/23/91 10:00
#2	PICCIOLA ISLAND WELL #2	01/23/91 10:00
#3	HOBBY HILLS WELL #1	01/23/91 11:00
#4	HOBBY HILLS WELL #2	01/23/91 11:00
#5	PALM MOBILE HP WELL #1	01/23/91 12:00
#6		
#7		
#8		
#9		
#10		
#11		
#12		

The results for this composite can be found under the Sample ID of: DISTRIBUTION

Comments SAMPLES WERE COMPOSITED FOR PALM MOBILE HOME PARK, HOBBY HILLS AND PICCIOLA ISLAND.

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
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			1.1	EPA 180.1	01/24/91

Comments:

Resampled
3-7-91
ok
Attached

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Volatile Organic Analysis

SAMPLE# 01B
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	01/28/91
2969	Para-dichlorobenzene			0.0005	U	EPA 524	0.0005	01/24/91
2976	Vinyl Chloride			0.0005	U	EPA 524	0.0005	01/24/91
2977	1,1-Dichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2980	1,2-Dichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2981	1,1,1-trichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2982	Carbon Tetrachloride			0.0005	U	EPA 524	0.0005	01/24/91
2984	Trichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2987	Tetrachloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2990	Benzene			0.0005	U	EPA 524	0.0005	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
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	01/27/91
2010	Lindane			0.00005	U	EPA 608	0.00005	01/27/91
2015	Methoxychlor			0.00050	U	EPA 608	0.00050	01/27/91
2020	Toxaphene			0.00100	U	EPA 608	0.00100	01/27/91
2105	2,4-D			0.0020	U	EPA 615	0.0020	01/28/91
2110	2,4,5-TP (Silvex)			0.0010	U	EPA 615	0.0010	01/28/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
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	01/28/91
1010	Barium			<0.100	EPA 200.7	0.100	02/01/91
1015	Cadmium			<0.005	EPA 213.2	0.005	01/28/91
1020	Chromium			<0.010	EPA 218.2	0.010	01/29/91
1025	Fluoride			<0.10	EPA 340.2	0.1	01/28/91
1030	Lead			<0.010	EPA 239.2	0.010	01/29/91
1035	Mercury			<0.0005	EPA 245.1	0.0005	02/05/91
1040	Nitrate (as N)			0.37	EPA 352.2	0.03	01/31/91
1045	Selenium			<0.010	EPA 270.2	0.005	01/31/91
1050	Silver			<0.010	EPA 272.2	0.010	01/25/91
1052	Sodium			10.0	EPA 200.7	0.001	02/01/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
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			66.0	EPA 200.7	0.1	02/01/91
1017	Chloride			23	SM 407	1.0	01/25/91
1019	Carbonate CaCO3			NOT ANALYZED			
1021	Hydroxide CaCO3			NOT ANALYZED			
1022	Copper			<0.010	EPA 200.7	0.010	02/01/91
1023	Bicarbonate CaCO3			NOT ANALYZED			
1025	Fluoride			<0.10	EPA 340.2	0.1	01/28/91
1026	Bicarbonate HCO3			NOT ANALYZED			
1027	Hydrogen Sulfide			NOT ANALYZED			
1028	Iron			0.560	EPA 200.7	0.100	02/01/91
1031	Magnesium			NOT ANALYZED			
1032	Manganese			<0.030	EPA 200.7	0.030	02/01/91
1055	Sulfate			<1.0	EPA 375.4	1.0	01/26/91
1095	Zinc			<0.005	EPA 200.7	0.050	02/01/91
1901	Carbon Dioxide			2.7	SM 406 C	1.0	02/01/91
1905	Color (color units)			<5.0	EPA 270.2	5 PCU	01/25/91
1915	Total Hardness			164	EPA 200.7	0.050	02/01/91
1917	NCH as CaCO3			NOT ANALYZED			
1920	Odor			16	EPA 140.1	1	01/25/91
1924	Field pH (units)			6.9			
1925	Lab pH (units)			8.02	EPA 150.1	N/A	01/24/91
1926	Field Conductivity			562			

ORLANDO LABORATORIES, INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315
Continued From Above

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
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			150	EPA 310.1	2.0	01/24/91
1930	TDS			230	EPA 160.1	1.0	01/29/91
1931	Phenolphthalein Alk.			<2.0	EPA 310.1	2.0	01/24/91
1996	Field Temp. (C)			24.6			
1997	Langlier Index pHs			7.45	CALC	N/A	02/04/91
1998	Saturation Index			0.57	CALC	N/A	02/04/91
1999	Stability Index			6.88	CALC	N/A	02/04/91
2909	Foaming Agents			<0.10	EPA 425.1	0.1	01/25/91
9996	Field DO			5.0			
9997	Field Chlorine			1.2			

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
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		1.6	EPA 900.0	+/- 1.6	01/28/91
4006	Total Uranium		N/A			
4010	Total Radium		N/A			
4020	Radium-226		N/A			
4030	Radium-228		N/A			
4100	Gross Beta		2.1	EPA 900.0	+/- 1.8	01/28/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Unreg-Organic Purgeable

SAMPLE# 01B
MATRIX WATER
TEST CODE PWS034

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			0.00050 U	EPA 524	0.00050	01/24/91
2212	Dichlorodifluoro methane			0.00050 U	EPA 524	0.00050	01/24/91
2214	Bromomethane			0.00050 U	EPA 524	0.00050	01/24/91
2216	Chloroethane			0.00050 U	EPA 524	0.00050	01/24/91
2218	Trichlorofluoro methane			0.00050 U	EPA 524	0.00050	01/24/91
2224	trans-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/24/91
2228	cis-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/24/91
2251	Methyl tert-butyl -ether			0.00050 U	EPA 524	0.00050	01/24/91
2380	cis-1,2-Dichloro ethene			0.00050 U	EPA 524	0.00050	01/24/91
2408	Dibromomethane			0.00050 U	EPA 524	0.00050	01/24/91
2410	1,1-Dichloropropene			0.00050 U	EPA 524	0.00050	01/24/91
2412	1,3-Dichloropropane			0.00050 U	EPA 524	0.00050	01/24/91
2414	1,2,3-Trichloro propane			0.00050 U	EPA 524	0.00050	01/24/91
2416	2,2-Dichloropropane			0.00050 U	EPA 524	0.00050	01/24/91
2931	1,2-dibromo-3-chloro propane			0.00020 U	EPA 504	0.00020	01/28/91
2941	Chloroform			0.00050 U	EPA 524	0.00050	01/24/91
2942	Bromoform			0.00050 U	EPA 524	0.00050	01/24/91
2943	Bromodichloro methane			0.00050 U	EPA 524	0.00050	01/24/91

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315
Continued From Above

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Unreg-Organic Purgeable

SAMPLE# 01B
MATRIX WATER
TEST CODE PWS034

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

2944 Dibromochloro methane			0.00050	U	EPA 524	0.00050	01/24/91
2962 para-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2964 Methylene Chloride			0.00050	U	EPA 524	0.00050	01/24/91
2965 o-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2966 p-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2967 meta-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2968 o-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2978 1,1-Dichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2979 trans-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/24/91
2983 1,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/24/91
2985 1,1,2-Trichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2986 1,1,1,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2988 1,1,2,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2989 Chlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2991 Toluene			0.00050	U	EPA 524	0.00050	01/24/91
2992 Ethylbenzene			0.00050	U	EPA 524	0.00050	01/24/91
2993 Bromobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2995 meta-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2996 Styrene			0.00050	U	EPA 524	0.00050	01/24/91
2997 ortho Xylene			0.00050	U	EPA 524	0.00050	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Unreg-Organic Pesticides

SAMPLE# 01B
MATRIX WATER
TEST CODE PWS035

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(2)
(PWS035)

Parameter ID	Name	Sample Number	Location Code	Analysis Result(ug/l)		Analytical Method	Det. Lt. Used	Analysis Date
2031	Dalapon			0.00100	U	EPA 615	0.00100	01/28/91
2036	Oxamyl (Vydate)			0.00200	U	EPA 531	0.00200	01/30/91
2037	Simazine			0.00005	U	EPA 622	0.00005	01/27/91
2040	Picloram			0.00100	U	EPA 615	0.00100	01/28/91
2041	Dinoseb			0.00200	U	EPA 615	0.00200	01/28/91
2043	Aldicarb sulfoxide			0.00200	U	EPA 531	0.00200	01/30/91
2044	Aldicarb sulfone			0.00200	U	EPA 531	0.00200	01/30/91
2045	Metolachlor			0.00005	U	EPA 622	0.00005	01/27/91
2046	Carbofuran			0.00150	U	EPA 531	0.00150	01/30/91
2047	Aldicarb			0.00100	U	EPA 531	0.00100	01/30/91
2050	Atrazine			0.00005	U	EPA 622	0.00005	01/27/91
2051	Alachlor (Lasso)			0.00005	U	EPA 622	0.00005	01/27/91
2065	Heptachlor			0.00005	U	EPA 608	0.00005	01/27/91
2356	Aldrin			0.00005	U	EPA 608	0.00005	01/27/91
2364	Dieldrin			0.00010	U	EPA 608	0.00010	01/27/91
2440	Dicamba			0.00200	U	EPA 615	0.00200	01/28/91
2959	Chlordane			0.00050	U	EPA 608	0.00050	01/27/91
2326	Pentachlorophenol			0.05000	U	EPA 625	0.05000	01/25/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Unreg-Base Neutral Extract

SAMPLE# 01B
MATRIX WATER
TEST CODE PWS036

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			0.01000	U	EPA 625	0.01000	01/25/91
2063	Dioxin			0.01000	U	EPA 625	0.01000	01/25/91
2262	Isophorone			0.01000	U	EPA 625	0.01000	01/25/91
2270	2,4-dinitrotoluene			0.01000	U	EPA 625	0.01000	01/25/91
2282	Dimethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2284	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2290	Dinbutylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2294	Butyl benzyl phathalate			0.01000	U	EPA 625	0.01000	01/25/91
2298	Bis(2-ethylhexyl) phthalate			0.01000	U	EPA 625	0.01000	01/25/91
2378	1,2,4-trichloro benzene			0.01000	U	EPA 625	0.01000	01/25/91
2386	PCB-1016			0.00050	U	EPA 608	0.00050	01/27/91
2390	PCB-1221			0.00050	U	EPA 608	0.00050	01/27/91
2392	PCB-1232			0.00050	U	EPA 608	0.00050	01/27/91
2394	PCB-1242			0.00050	U	EPA 608	0.00050	01/27/91
2396	PCB-1248			0.00050	U	EPA 608	0.00050	01/27/91
2398	PCB-1254			0.00100	U	EPA 608	0.00100	01/27/91
2400	PCB-1260			0.00100	U	EPA 608	0.00100	01/27/91
9089	Dioctylphthalate			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Distribution
DATE COLLECTED 01/23/91
TEST NAME Unreg-Acid Extractable

SAMPLE# 018
MATRIX WATER
TEST CODE PWS037

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			0.01000	U	EPA 625	0.01000	01/25/91
9112	2-methyl-4,6-dinito phenol			0.05000	U	EPA 625	0.05000	01/25/91
9115	Phenol			0.01000	U	EPA 625	0.01000	01/25/91
9116	2,4,6-trichloro-phenol			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

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

SAMPLE# 02A
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	01/28/91
2969	Para-dichlorobenzene			0.0005	U	EPA 524	0.0005	01/24/91
2976	Vinyl Chloride			0.0005	U	EPA 524	0.0005	01/24/91
2977	1,1-Dichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2980	1,2-Dichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2981	1,1,1-trichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2982	Carbon Tetrachloride			0.0005	U	EPA 524	0.0005	01/24/91
2984	Trichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2987	Tetrachloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2990	Benzene			0.0005	U	EPA 524	0.0005	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

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	01/27/91
2010	Lindane			0.00005	U	EPA 608	0.00005	01/27/91
2015	Methoxychlor			0.00050	U	EPA 608	0.00050	01/27/91
2020	Toxaphene			0.00100	U	EPA 608	0.00100	01/27/91
2105	2,4-D			0.0020	U	EPA 615	0.0020	01/28/91
2110	2,4,5-TP (Silvex)			0.0010	U	EPA 615	0.0010	01/28/91

Comments:

ORLANDO LABORATORIES,INC. REPORT OF ANALYSIS Work Order # 91-01-315
Received: 01/23/91 Results by Sample

SAMPLE ID Method Blank SAMPLE# 02A
DATE COLLECTED not specified MATRIX METHOD BLANK
TEST NAME Unreg-Organic Purgeable TEST CODE PWS034

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			0.00050 U	EPA 524	0.00050	01/24/91
2212	Dichlorodifluoro methane			0.00050 U	EPA 524	0.00050	01/24/91
2214	Bromomethane			0.00050 U	EPA 524	0.00050	01/24/91
2216	Chloroethane			0.00050 U	EPA 524	0.00050	01/24/91
2218	Trichlorofluoro methane			0.00050 U	EPA 524	0.00050	01/24/91
2224	trans-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/24/91
2228	cis-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/24/91
2251	Methyl tert-butyl ether			0.00050 U	EPA 524	0.00050	01/24/91
2380	cis-1,2-Dichloro ethene			0.00050 U	EPA 524	0.00050	01/24/91
2408	Dibromomethane			0.00050 U	EPA 524	0.00050	01/24/91
2410	1,1-Dichloropropene			0.00050 U	EPA 524	0.00050	01/24/91
2412	1,3-Dichloropropane			0.00050 U	EPA 524	0.00050	01/24/91
2414	1,2,3-Trichloro propane			0.00050 U	EPA 524	0.00050	01/24/91
2418	2,2-Dichloropropane			0.00050 U	EPA 524	0.00050	01/24/91
2931	1,2-dibromo-3-chloro propane			0.00020 U	EPA 504	0.00020	01/28/91
2941	Chloroform			0.00050 U	EPA 524	0.00050	01/24/91
2942	Bromoform			0.00050 U	EPA 524	0.00050	01/24/91
2943	Bromodichloro methane			0.00050 U	EPA 524	0.00050	01/24/91

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS034

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

2944	Dibromochloro methane			0.00050	U	EPA 524	0.00050	01/24/91
2962	para-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2964	Methylene Chloride			0.00050	U	EPA 524	0.00050	01/24/91
2965	o-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2966	p-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2967	meta-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2968	o-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2978	1,1-Dichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2979	trans-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/24/91
2983	1,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/24/91
2985	1,1,2-Trichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2986	1,1,1,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2988	1,1,2,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2989	Chlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2991	Toluene			0.00050	U	EPA 524	0.00050	01/24/91
2992	Ethylbenzene			0.00050	U	EPA 524	0.00050	01/24/91
2993	Bromobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2995	meta-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2996	Styrene			0.00050	U	EPA 524	0.00050	01/24/91
2997	ortho Xylene			0.00050	U	EPA 524	0.00050	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Pesticides

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS035

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(2)
(PWS035)

Parameter ID	Name	Sample Number	Location Code	Analysis Result(mg/l)		Analytical Method	Det. Lt. Used	Analysis Date
2031	Dalapon			0.00100	U	EPA 615	0.00100	01/28/91
2036	Oxamyl (Vydate)			0.00200	U	EPA 531	0.00200	01/30/91
2037	Simazine			0.00005	U	EPA 622	0.00005	01/27/91
2040	Picloram			0.00100	U	EPA 615	0.00100	01/28/91
2041	Dinoseb			0.00200	U	EPA 615	0.00200	01/28/91
2043	Aldicarb sulfoxide			0.00200	U	EPA 531	0.00200	01/30/91
2044	Aldicarb sulfone			0.00200	U	EPA 531	0.00200	01/30/91
2045	Metolachlor			0.00005	U	EPA 622	0.00005	01/27/91
2046	Carbofuran			0.00150	U	EPA 531	0.00150	01/30/91
2047	Aldicarb			0.00100	U	EPA 531	0.00100	01/30/91
2050	Atrazine			0.00005	U	EPA 622	0.00005	01/27/91
2051	Alachlor (Lasso)			0.00005	U	EPA 622	0.00005	01/27/91
2065	Heptachlor			0.00005	U	EPA 608	0.00005	01/27/91
2356	Aldrin			0.00005	U	EPA 608	0.00005	01/27/91
2364	Dieldrin			0.00010	U	EPA 608	0.00010	01/27/91
2440	Dicamba			0.00200	U	EPA 615	0.00200	01/28/91
2959	Chlordane			0.00050	U	EPA 608	0.00050	01/27/91
2939	Pentachlorophenol			0.05000	U	EPA 625	0.05000	01/25/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Base Neutral Extract

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS036

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			0.01000	U	EPA 625	0.01000	01/25/91
2063	Dioxin			0.01000	U	EPA 625	0.01000	01/25/91
2262	Isophorone			0.01000	U	EPA 625	0.01000	01/25/91
2270	2,4-dinitrotoluene			0.01000	U	EPA 625	0.01000	01/25/91
2282	Dimethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2284	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2290	Dinbutylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2294	Butyl benzyl phathalate			0.01000	U	EPA 625	0.01000	01/25/91
2298	Bis(2-ethylhexyl) phthalate			0.01000	U	EPA 625	0.01000	01/25/91
2378	1,2,4-trichloro benzene			0.01000	U	EPA 625	0.01000	01/25/91
2388	PCB-1016			0.00050	U	EPA 608	0.00050	01/27/91
2390	PCB-1221			0.00050	U	EPA 608	0.00050	01/27/91
2392	PCB-1232			0.00050	U	EPA 608	0.00050	01/27/91
2394	PCB-1242			0.00050	U	EPA 608	0.00050	01/27/91
2396	PCB-1248			0.00050	U	EPA 608	0.00050	01/27/91
2398	PCB-1254			0.00100	U	EPA 608	0.00100	01/27/91
2400	PCB-1260			0.00100	U	EPA 608	0.00100	01/27/91
9089	Dioctylphthalate			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-315

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Acid Extractable

SAMPLE# 02A
MATRIX METHOD BLANK
TEST CODE PWS037

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			0.01000	U	EPA 625	0.01000	01/25/91
9112	2-methyl-4,6-dinito phenol			0.05000	U	EPA 625	0.05000	01/25/91
9115	Phenol			0.01000	U	EPA 625	0.01000	01/25/91
9116	2,4,6-trichloro-phenol			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

Southern States Utilities
Attn: Aaron Perlowich

Report No: 91-01-315
Page No: 22

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Gross Alpha	0.2	82	01/28/91	JAB
Gross Beta	0.9	97	01/28/91	JAB
Turbidity	<1	N/A	01/24/91	RAW
Color	<1	N/A	01/25/91	TB
Odor	<1	N/A	01/25/91	TB
pH	<1	N/A	01/24/91	RAW
MBAS	<1	82	01/25/91	JN
Nitrogen, Nitrite	<1	102	01/25/91	RAW
Total Alkalinity	<1	94	01/24/91	RAW
Fluoride	<1	94	01/28/91	TB
Nitrogen, Nitrate	<1	99	01/31/91	SC
Chloride	<1	105	01/25/91	JN
Sulfate	<1	105	01/26/91	TB
TDS	1	N/A	01/29/91	JN
Silver	<1	96	01/25/91	DR
Cadmium	<1	100	01/25/91	DR
Arsenic	<1	100	01/28/91	DR
Chromium	<1	100	01/29/91	DR
Lead	2	95	01/29/91	RJW
Selenium	<1	98	01/31/91	DR
Barium	<1	104	02/01/91	BB
Sodium	<1	106	02/01/91	BB
Copper	<1	102	02/01/91	BB
Iron	<1	108	02/01/91	BB
Manganese	<1	102	02/01/91	BB
Zinc	<1	101	02/01/91	BB
Calcium	<1	107	02/01/91	BB
Mercury	<1	102	02/05/91	LG

NOTE: The duplicates for Gross Alpha & Gross Beta are reported as actual difference rather than percent difference as specified.

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-28-1991

LAB SAMPLE # : 9101313-01A
ANALYSIS DATE : 01/28/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ETHYLENE DIBROMIDE	100	0	91	91	70	70	26 *

COMMENTS : * = parameter outside QC limits. due to matrix interference.

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ETHYLENE DIBROMIDE	58	100	20	35	90	20

ORLANDO LABORATORIES INC.

GC/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-26-1991

LAB SAMPLE # : 9101294-2 524
ANALYSIS DATE : 1/24/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	43	86	46	92	7
trichloroethene	50	0	46	92	51	102	10
benzene	50	0	38	76	43	86	12 *
toluene	50	0	57	114	60	120	5
chlorobenzene	50	0	56	112	54	108	4

COMMENTS : * = parameter outside QC limits. due matrix interference.

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 : 01-26-1991

LAB SAMPLE # : 9101343-2 625
ANALYSIS DATE : 1/25/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	122	61	135	68	10
2-chlorophenol	200	0	195	98	221	111	13
4-chloro-3-methylphenol	200	0	207	104 *	237	119 *	14
4-nitrophenol	200	0	129	65	141	71	9
pentachlorophenol	200	0	236	118 *	259	130 *	9
1,4-dichlorobenzene	100	0	104	104 *	117	117 *	12
n-nitroso-di-n-propylamine	100	0	102	102	109	109	7
1,2,4-trichlorobenzene	100	0	105	105 *	124	124 *	17
acenaphthene	100	0	100	100	109	109	9
2,4-dinitrotoluene	100	0	111	111 *	120	120 *	8
pyrene	100	0	103	103	115	115	11

COMMENTS : * = parameter outside QC limits. due to matrix interference.

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 : 01-30-1991

LAB SAMPLE # : 9101343-04A
ANALYSIS DATE : 01/30/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	91	91	94	94	3

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	62	130	20	60	135	20

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-29-1991

LAB SAMPLE # : 9101343-01a
ANALYSIS DATE : 01/28/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
PICLORAM	100	0	83	83	100	100	19
2,4,5-TP (silver)	100	0	100	100	105	105	5

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

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-28-1991

LAB SAMPLE # : 9101199-01a
ANALYSIS DATE : 01/27/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALACHLOR	100	0	113	113	94	94	18

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALACHLOR	70	130	30	60	140	35

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-28-1991

LAB SAMPLE # : 9101199-01a
ANALYSIS DATE : 01/27/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	117	117	108	108	8
HEPTACHLOR	100	0	119	119	111	111	7
ALDRIN	100	0	114	114	97	97	16
DIELDRIN	100	0	113	113	103	103	9
ENDRIN	100	0	109	109	98	98	11
4,4-DDT	100	0	111	111	97	97	13

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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3350981
Public Water System Name: Palms Mobile Homes
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turb., V. Organics, Org.Chem., Inorganics, Secondaries, Radiological, Unreg-org. Purge., Unreg-Org. Pest., Unreg-Base Neutral Ex. & Unreg Acid Ex.
Subcontracted Lab Certification Number (if any): N/A

SAMPLE INFORMATION
Sample Date (MMDDYY): 01/23/91
Laboratory Sample Number: 91-01-315
Sample Location: Palms Mobile Homes - 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:

ANALYSIS INFORMATION
Extraction Date (MMDDYY): 01/24/91, 01/25/91 & 01/28/91
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 2/8/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

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

0557

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

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

1 INVOICE TO: (COMPANY AND INDIVIDUAL)	ADDRESS (CITY, STATE, ZIP)	CONTACT PERSON/PHONE # INVOICE
SSU Services	1000 Color Place	1-800-432-4501
4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL)	**ADDRESS (CITY, STATE, ZIP)**	**5 CONTACT PERSON/PHONE # REPORT**
Aaron Perlowich	Apopka Fla. 32703	(407) 880-0100
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO:	**ADDRESS: (CITY, STATE, ZIP)**	**17 NUMBER OF CONTAINERS**
Brian Heath	300 N. Fern Lees. Fla. 34748	
8 CLIENT PROJECT NAME	**9 CLIENT PROJECT #**	
#559	Palm Mobile Home	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	COMP	GRAB	WATER	SOIL	12 OTHER	13 SAMPLE DESCRIPTION	18 REQUESTED ANALYSIS: 1755OF	1255VOA	19 REMARKS
Well #	1-23-91 12:00		X	X				X		
Distribution	"		X	X				(X)	X	1755, 1255 VOA

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	1/9 1:30	
2nd	Dana Shuffler	16:20 1-23-91	[signature]
3rd			

20 ADDITIONAL REMARKS: Composite wells from Hobby Hills, Picciola Isld, PalmHP

21 COOLER #'s: 148

22 SAMPLER'S SIGNATURE: Dana Shuffler

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, FL 32703

Attn: Aaron Perlowich

Work Order # : 91-03-089
Date Received: 03/07/91
Date Reported: 03/13/91
OLI Contact: L_BALTZLEY

Work ID: 559 Palm's MHP
Total Samples: 4

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 FE #1	FE_ICP Iron
02 FE #2	TURB Turbidity – OK
03 FE #3	
04 Turbidity	

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 Halarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 03/07/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-03-089

SAMPLE ID FE #1 — SAMPLE # 01A
DATE COLLECTED 02/13/91 16:00:00 — MATRIX WATER

FE_ICP 0.690 mg/l — Will Resample

SAMPLE ID FE #2 — SAMPLE # 02A
DATE COLLECTED 02/15/91 14:30:00 — MATRIX WATER

FE_ICP 0.550 mg/l — Will Resample

SAMPLE ID FE #3 — SAMPLE # 03A
DATE COLLECTED 03/07/91 10:00:00 — MATRIX WATER

FE_ICP 0.550 mg/l — Will Resample

SAMPLE ID Turbidity — SAMPLE # 04A
DATE COLLECTED 03/07/91 10:00:00 — MATRIX WATER

TURB 0.74 NTU — Ok

Southern States Utilities
Attn: Aaron Perlowich

Report No: 91-03-089
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	PPE

NOTE: Due to matrix interference, iron duplicate recovery was outside of QC limits.

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	3 OLI WORK ORDER # (LAB USE)
SSU Services	1000 Color Place	880-0058	9103089
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL)	**ADDRESS (CITY, STATE, ZIP)**	**5 CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
Aaron Perlowich	Apopka, Fla. 32703	904-787-4501	
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO:	**ADDRESS: (CITY, STATE, ZIP)**		
Brian Heath	300 N Fein Lees. Fla. 34748		
8 CLIENT PROJECT NAME	**9 CLIENT PROJECT #**		
PALM's MHP	559		

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: Turbidity Iron	19 REMARKS
FE #1	2-13-91 16:00		X	X			Point of Entry	1	X	
FE #2	2-15-91 14:30		X	X			" "	1	X	
FE #3	3-7-91 10:00		X	X			↓	1	X	
Turbidity	3-7-91 10:00		X	X				1	X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Dana Shuffler	3-7-91/14:30	Deedee Homan
2nd			
3rd			

20 ADDITIONAL REMARKS: --- 189

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0561

SSU SERVICES

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

May 6, 1991

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

Re: Palms Mobile Home PWS ID #3350981
Picciola Island PWS ID #3351009
Hobby Hills PWS ID #3350544

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
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: May 1 1991
PO Number: 111401
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL SAMPLE
Date Received: Apr18 1991
Lab Number : 16698

REPORT OF ANALYSIS

Palms Mobile Homes

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16698
Ethylene dibromide	mg/L	0.000005	97.3	13.0	<0.000005
Para-dichlorobenzene	mg/L	0.001	98.8	5.42	<0.001
Vinyl chloride	mg/L	0.001	94.6	6.87	<0.001
1,1-dichloroethene	mg/L	0.001	94.6	6.37	<0.001
1,2-dichloroethane	mg/L	0.001	94.1	1.49	<0.001
1,1,1-trichloroethan	mg/L	0.001	100	2.61	<0.001
Carbon tetrachloride	mg/L	0.001	103	1.27	<0.001
Trichloroethene	mg/L	0.001	105	.489	<0.001
Tetrachloroethene	mg/L	0.001	106	.068	<0.001
Benzene	mg/L	0.001	105	.502	<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 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3350981
Public Water System Name Palms Mobile Homes
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 16698
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 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 5/1/91

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)
(PWS029)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	16698	.00002	<.000005	EPA504.1	.000005	4/30/91
2969	Para-dichlorobenzene	16698	.075	<0.001	EPA502.2	0.001	4/25/91
2976	Vinyl chloride	16698	0.001	<0.001	EPA502.2	0.001	4/25/91
2977	1,1-dichloroethene	16698	0.007	<0.001	EPA502.2	0.001	4/25/91
2980	1,2-dichloroethane	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2981	1,1,1-trichloroethane	16698	0.2	<0.001	EPA502.2	0.001	4/25/91
2982	Carbon tetrachloride	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2984	Trichloroethene	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2987	Tetrachloroethene	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2990	Benzene	16698	0.001	<0.001	EPA502.2	0.001	4/25/91

Comments:

SSU
SERVICES

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

August 14, 1991

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

Re; Lake County - PW
Carlton Village PWS ID #3350152
Morningview PWS ID #3350852
East Lake Homes PWS ID #3350322
Friendly Center PWS ID #3350426
Hobby Hills PWS ID #3350544
Palms Mobile Homes PWS ID #3350981
Picciola Island PWS ID #3351009

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis third quarter 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
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU Serv/LANCE
1000 Color Place
Apopka,FL 32703

Date Reported: Aug 7 1991
PO Number: 23256
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: GRAB SAMPLE
Date Received: Jul31 1991 Lab Number : 17420

REPORT OF ANALYSIS

Palms Mobile Homes

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17420
Ethylene dibromide	mg/L	0.000005	98.2	.762	<0.000005
Para-dichlorobenzene	mg/L	0.001	93.8	3.03	<0.001
Vinyl chloride	mg/L	0.001	105	1.51	<0.001
1,1-dichloroethene	mg/L	0.001	105	1.51	<0.001
1,2-dichloroethane	mg/L	0.001	99.3	4.74	<0.001
1,1,1-trichloroethan	mg/L	0.001	101	2.84	<0.001
Carbon tetrachloride	mg/L	0.001	99.7	3.23	<0.001
Trichloroethene	mg/L	0.001	103	.830	<0.001
Tetrachloroethene	mg/L	0.001	101	1.21	<0.001
Benzene	mg/L	0.001	96.6	.971	<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: 3350981
Public Water System Name Palms 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) 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 17420
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 Shutter

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: [signature]

Name **Andrew B. Harrison**
Title **Laboratory Manager**
Laboratory **Flowers Chemical Laboratories,Inc.**
Date **8/7/91**

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

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	17420	.00002	<.000005	EPA504.1	.000005	8/5/91
2969	Para-dichlorobenzene	17420	.075	<0.001	EPA502.2	0.001	8/2/91
2976	Vinyl chloride	17420	0.001	<0.001	EPA502.2	0.001	8/2/91
2977	1,1-dichloroethene	17420	0.007	<0.001	EPA502.2	0.001	8/2/91
2980	1,2-dichloroethane	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2981	1,1,1-trichloroethane	17420	0.2	<0.001	EPA502.2	0.001	8/2/91
2982	Carbon tetrachloride	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2984	Trichloroethene	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2987	Tetrachloroethene	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2990	Benzene	17420	0.001	<0.001	EPA502.2	0.001	8/2/91

Comments:

A-1

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-530

FDER Lab# 880018
FDHRS Lab# 88139
NCDEHNR Lab# 379
SCDHEC Lab# 99018

Attn: Dan Cuccler

(1)Client: SSU Services
(2)Address:
(3)Phone:
(4)Public Drinking Water ID #:
(5)Public Water System Name:
(6)Project #:
(7)PO# 23256
(8)Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

(9)		Preservative		Plastic Containers						Glass Containers						NOTES:
		HNO3	ZnOAC/NaOH	60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	(11)Turn Around Time: 10 Working Days: 5 Working Days : 3 Working Day : 1 Working Day : Other :
	16									X						

5 wells
PLZ Compliance

(10)Relinquished: (10)Date (10)Time
(11)Rec 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:

VOA → Hobby Hills[556] / Palm Mobile Homes[559] / Piccola Island[564].

(12)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
17420	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16)Collectors Signature:	James Shaffer	7-31-91	15:45
(17)Transporters Signature:	James Shaffer	7-31-91	15:45
(19)Lab Acceptance By:		7/31/91	1545

SSU SERVICES

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

October 28, 1991

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

Re: Lake County PW
Hobby Hills PWS ID #3350544
Palms Mobile Homes PWS ID #3350981 ←
Picciola Island PWS ID #3351009

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, ~~third~~ 4th quarter 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: Oct21 1991
PO Number: L114552
PO Number Hobby Hills,e
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 558,559,564
Date Received: Oct16 1991
Lab Number : 18036

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18036
Ethylene dibromide	mg/L	0.000005	111	2.25	<0.000005
Para-dichlorobenzene	mg/L	0.001	93.5	1.54	<0.001
Vinyl chloride	mg/L	0.001	107	1.94	<0.001
1,1-dichloroethene	mg/L	0.001	107	1.94	<0.001
1,2-dichloroethane	mg/L	0.001	106	1.35	<0.001
1,1,1-trichloroethan	mg/L	0.001	108	2.17	<0.001
Carbon tetrachloride	mg/L	0.001	106	1.68	<0.001
Trichloroethene	mg/L	0.001	105	.894	<0.001
Tetrachloroethene	mg/L	0.001	103	2.58	<0.001
Benzene	mg/L	0.001	105	1.16	<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.

Johnson S. Flowers, Ph.D.
Technical Director

Johnson 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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Palm Mobile Home
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 18036
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 **10/19/91**

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	18036	.00002	<.000005	EPA504.1	.000005	10/17/91
2969	Para-dichlorobenzene	18036	.075	<0.001	EPA502.2	0.001	10/17/91
2976	Vinyl chloride	18036	0.001	<0.001	EPA502.2	0.001	10/17/91
2977	1,1-dichloroethene	18036	0.007	<0.001	EPA502.2	0.001	10/17/91
2980	1,2-dichloroethane	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2981	1,1,1-trichloroethane	18036	0.2	<0.001	EPA502.2	0.001	10/17/91
2982	Carbon tetrachloride	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2984	Trichloroethene	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2987	Tetrachloroethene	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2990	Benzene	18036	0.001	<0.001	EPA502.2	0.001	10/17/91

Comments:

CHEMICAL LABORATORIES INCORPORATED

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-225

ATTN: Don Corder

(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 # PO# L114552

(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	10ml	250ml	500ml	1L	2L	4L	
(18)	15									K						

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

HOBBY HILLS (2 WELLS)
PALMS M.H. (1 WELL)
PICCIOLA ISLAND (2 WELLS)

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

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

(16)Laboratory Number	(11)Client Sample Identification
180360	#1 #558 - W#1 - 2
	#2 #558 - W#2 - 2
	#3 #559 - W - 2
	#4 #560 - W#1 - 2
	#5 #560 - W#2 - 2
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	Brian Heath	10/16/91	
(14)Transporters Signature:		10-16-91	
(15)Lab Acceptance By:		10/16/91	3:44

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

DRINKING WATER BACTERIOLOGICAL ANALYSIS

3350981 - 12/12

SYSTEM NAME: Palms Mobile home #55 SYSTEM I.D. NO. 2350551 SYSTEM PHONE #: 800-432-4501

ADDRESS: U.S. 27 COUNTY: Glades HRS DISTRICT: Central

COLLECTOR: John Honeycutt COLLECTOR PHONE #: 800-432-4501

SAMPLE SITE (Locality or Subdivision): Palms Mobile home

DATE AND TIME COLLECTED: 12-11-91 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 Plant discharge Well survey Other _____ (Specify)
(Check Box) (Check Box)
[ ] Distribution [ ] THTC 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	COLIFORM	TOTAL	CONFIRM TOTAL	CONFIRM FECAL
W	Well	0.0		05		A		
T	Tank	1.2		05		A		
R-1	24705 Plumosa	1.0		05		A		
R-2	5617 Rim	0.9		05		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 665, Jan 81 (Obsolete previous editions which may not be used) (Stock Number: 0160-000-0665-4)

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: JK

TITLE: DER

Park Manor - 444

Putnam County (SSU)

Water

- 1992 FPSC Filing -

Park Manor

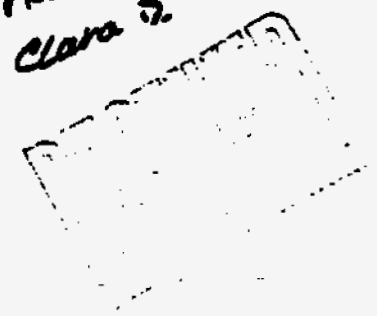
Chemical Analyses

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

330 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

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 S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWNANSVILLE
P.O. BOX 150 537
ALTAMONTE SPRINGS
FLORIDA 32715 0537
BUS (407) 332 5284
Fax (407) 332 5284

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
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.
481 Newman Road
P.O. Box 150197
Altamonte Springs
Florida 32715-0597
Bus (407) 339-7284
Fax (407) 339-7284

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: 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, Ph.D.
Jefferson S. Flowers, Ph.D.
481 Newnan Street
P.O. Box 150597
Altamonte Springs
Florida 32715-0597
Bus (407) 339-5784
Fax (407) 339-6439

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
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
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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 NEWMANSPORT
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:_____
Public Water System Name Park Manor
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_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 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 08/01/8 () 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	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,-dichloropropr	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

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L)	Analytical Method	Det.Limit Used	Analysis Date
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)
(PWS038)

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, 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
	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
SSU Services

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 459
Pomona Park,FL 32181

Date Reported: Apr 29 1991
PO Number : 891029
PO Number SSU Serv.
FDHRS Lab# : 83129
FDER Lab# : E83019
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Apr 17 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.

Jeffrey P. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, PhD
Jefferson L. 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 Park Manor
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 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 ___/___/____
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	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 ER 8033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

Dedicated To Excellence

(407) 896-5645 (800) 826-8320 FAX (407) 898-5588

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# 002A
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 # 91-07-174

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. 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 # 91-07-124

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

SAMPLE# 03A
MATRIX METHOD BLAN
TEST CODE PWS02B

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
NonReported Work

Work Order # 3L-07-174

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	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	90	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: Park Manor
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

0600

ORLANDO LABORATORIES, INC.
P.O. Box 1491 Orlando FL 32814
(407) 896-6645 FAX (407) 896-8588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 1 of 5

INVOICE TO (COMPANY NAME, ADDRESS)	ADDRESS (CITY, STATE, ZIP) 1	CONTACT PERSON, PHONE # INVOICE 2	OLI WORK ORDER # (LAB USE) 3
SSU Services	1000 Color Place Apopka		9107474
ORIGINAL REPORT TO (COMPANY NAME, ADDRESS)	**ADDRESS (CITY, STATE, ZIP) 4**	**CONTACT PERSON, PHONE # REPORT**	**RB NUMBER (LAB USE) 6**
SSU Services	PO Box 458 Panama Park Fl 32181	Paul Thompson 769-4143	
(OPTIONAL) ADDITIONAL REPORTS SENT TO	ADDRESS (CITY, STATE, ZIP) 7		
CLIENT PROJECT NAME 8	CLIENT PROJECT # 9		

SAMPLE IDENTIFICATION 10	DATE/TIME 11	COMP	GRAB	WATER	SOIL	OTHER 12	SAMPLE DESCRIPTION 13	NUMBER OF CONTAINERS 17	REQUESTED ANALYSIS: VOCs 18	REMARKS 19
Interlachen (2340545)	7/30/91 8:00			X			Well	8	X	
Park Manor (2340873)	7/30/91 8:00			X			Well	8	X	
Silver Lake Oaks (2344258)	7/30/91 8:00			X			Well	4	X	

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

ADDITIONAL REMARKS 20

COOLER #'s 21

SAMPLER'S SIGNATURE 22 Roy White

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

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 [illegible]

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 # 31-10-[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 # 91-10-136

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

SAMPLE# 030
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 10 145

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

02A : NITEST

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: 2540873
Public Water System Name: Park Manor
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

6090

ORLANDO LABORATORIES, INC
P.O. Box 14812 Orlando, FL 32814
407 896-6645 FAX (407) 896-6588

CHAIN-OF-CUSTODY RECORD

SEE INSTRUCTIONS ON BACK

Page ___ of ___

COMPANY NAME	ADDRESS (CITY STATE ZIP)		LAB NUMBER
SSU SERVICES	P.O. BOX 458 POMONA PARK FL 32181		9110436
ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL)	ADDRESS (CITY STATE ZIP)		
SAME		PAUL D. TILLMAN PSW	5587
(OPTIONAL) ADDITIONAL REPORTS SENT TO	ADDRESS (CITY STATE ZIP)		
CLIENT PROJECT NAME 6	CLIENT PROJECT P.O. # 5		
	L114422		

	10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSES VOC	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	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	10/28 1440	Ron Bayne
2nd	Ron Bayne	1030 1630	Deedee Homan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

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

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

1 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 TIDMARSH	41647
(OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: PRIMARY / NUTRIENTS; SECONDARY STANDARDS; TURBIDITY; PRIMARY ORGANICS
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	REMARKS 19
WOODRUFF # 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	P.J. Thrift	7/29 1210	Desh 7/30/91
2nd	Ron Bayer	7/31 1100	Darlene Horan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0610

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-478

SAMPLE ID Park Manor #2540873
DATE COLLECTED 07/30/91 08:00:00
TEST NAME Turbidity Analysis

SAMPLE# 03A
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			<0.50	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 Park Manor #2540873
DATE COLLECTED 07/30/91 08:00:00
TEST NAME Organic Chemical Analysis

SAMPLE# 03A
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 Park Manor #2540873
DATE COLLECTED 07/30/91 08:00:00
TEST NAME Inorganic Analysis

SAMPLE# 03A
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			0.130	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)			0.0313	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			3.90	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 Park Manor #2540873
DATE COLLECTED 07/30/91 08:00:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 03A
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			40.0	EPA 200.7	0.1	07/31/91
1017	Chloride			7.04	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			0.130	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			6.10	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			1.9	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			130.0	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)			7.98	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 Park Manor #2540873
DATE COLLECTED 07/30/91 08:00:00
TEST NAME Secondary Chem. Analysis

SAMPLE# 03A
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			101	EPA 310.1	2.0	08/01/91
1930	TDS			124	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			0.2	CALC	N/A	08/06/91
1999	Stability Index			7.6	CALC	N/A	08/06/91
2909	Foaming Agents			<0.10	EPA 425.1	0.1	07/31/91
9996	Field [illegible]			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 # : 910724B-04-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	96	96	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	KM
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 19127 • Orlando, Florida 32814 • (407) 896-6645

PLANT # 444

REPORT OF ANALYSIS

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

Report #: 52431 (5980)
Sample submitted by: Client *
Date sampled: 06-15-88 @ 10:30 am. *
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 06-16-88
SAMPLE IDENTIFICATION: Sample submitted and identified by client as: Park Manor.
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.

Matt A. Zmor
Laboratory Manager

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)

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)

MISCELLANEOUS	WELL #1	WELL #2	WELL #3	WELL #4
Ethylene Dibromide, EDB (ug/l)	ND(0.02)	ND(0.02)	ND(0.02)	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)	7.5	mg/l
Color	(15)	<5	PCU
Foaming Agents, (MBAS)	(0.5)	<0.1	mg/l
Sulfate, SO_4	(250)	2.1	mg/l
Total Dissolved Solids	(500)	150	mg/l
pH (Laboratory)	(6.5-8.5)	7.9	units
Odor Threshold	(3)	1	units
Copper, Cu	(1.0)	<0.010	mg/l
Iron, Fe	(0.3)	0.111	mg/l
Manganese, Mn	(0.05)	<0.050	mg/l
Zinc, Zn	(5)	0.076	mg/l
Phenolphthalein Alkalinity, $CaCO_3$		0	mg/l
Total Alkalinity, $CaCO_3$		62	mg/l
Carbonate Alkalinity, $CaCO_3$		0	mg/l
Bicarbonate Alkalinity, $CaCO_3$		62	mg/l
Carbonates, $CaCO_3$		0	mg/l
Bicarbonates, HCO_3		76	mg/l
Hydroxides, as OH		0	mg/l
Carbon Dioxide, CO_2		1.8	mg/l
Fluoride, F		0.13	mg/l
pHs		8.1	units
Stability Index		8.3	units
Specific Conductance, umhos		252	umhos
Hydrogen Sulfide, H_2S (F-F)		1.8	mg/l
Nitrate Nitrogen, NO_3-N		<0.03	mg/l
Total Hardness, $CaCO_3$		119	mg/l
Magnesium Hardness, $CaCO_3$		24.4	mg/l
Calcium Hardness, $CaCO_3$		94.6	mg/l
Calcium, Ca		37.9	mg/l
Magnesium, Mg		5.92	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	0.13

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 #	PARK MANOR
Gross Alpha	#01051	1.3
Counting error	#01502	±1.3

RESULTS, mg/l

DETERMINATION	ENTRY POINT TO DISTRIBUTION
Total Dissolved Solids, TDS	150
pH, units	7.9
Corrosivity	-0.2
Total Alkalinity, $CaCO_3$	60
Sodium, Na	4.3
Turbidity, NTU	<1.0
Calcium Hardness, $CaCO_3$	103

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	2.2	06-21-88	C.G.
Arsenic	1.1	06-24-88	C.G.
Barium	2.2	06-30-88	C.G.
Cadmium	<1.0	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	06-30-88	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	98/96	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	97/99	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	06-30-88	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.

I.D. No. 13603

FOR LAB USE ONLY RL

Dec 4 1 58 PM '91

12/5

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

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Park Manor SYSTEM I.D. NO: 3540873 SYSTEM PHONE #: 649-4143

ADDRESS: Park Rd. COUNTY: Putnam DER DISTRICT: 2

COLLECTOR: Ray White COLLECTOR PHONE #: 649-4143

SAMPLE SITE (Locality or Subdivision): Subdivision

DATE AND TIME COLLECTED: 12/4/91 9:30 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) (Check Box) [x] Distribution [x] 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 #2		7.4	0 [illegible]	M	A		
2	Dist. 1 Lot 20 Block 2	.5		0 [illegible] 2		A		
3	Dist. 2 Lot 6 Blk 1	.4		0 [illegible] 3		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

DEC 12 '91

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

Bianca R. Rodriguez, Engineer
Dept. of Env. Regulation

( ) 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 815, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 0160-000-8815-1)

Picciola Island - 564

Lake County (SSU)

Water

- 1992 FPSC Filing -

Picciola Island

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	1/91
	4/91
	7/91
	10/91
Turbidity	8/90
Microbiological	12/91
Radionuclide	8/90
Secondary Contaminants	8/90
Unregulated Contaminants	1/91

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

F:1-

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 90-08-380
Date Received: 08/30/90
Date Reported: 09/12/90
OLI Contact: E_HOBBS

Work ID: 564 Picciola Island
Total Samples: 2

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Cooler #63 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 # 90-08-380

SAMPLE ID Cooler #63 distribution
DATE COLLECTED 08/30/90 09:00:00
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			0.46	EPA 180.1	08/31/90

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-380

SAMPLE ID Cooler #63 distribution
DATE COLLECTED 08/30/90 09:00:00
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 # 90-08-380

SAMPLE ID Cooler #63 distribution
DATE COLLECTED 08/30/90 09:00:00
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	09/13/90
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)			0.20	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			4.70	EPA 200.7	0.001	09/07/90

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-380

SAMPLE ID Cooler #63 distribution
DATE COLLECTED 08/30/90 09:00:00
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			39.0	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			0.12	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			2.7	EPA 375.4	1.0	09/04/90
1095	Zinc			<0.050	EPA 200.7	0.050	09/07/90
1901	Carbon Dioxide			1.8	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			96.0	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)			8.11	EPA 150.1	N/A	08/31/90
1926	Field Conductivity			271	EPA 120.1	N/A	08/30/90

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-380
Continued From Above

SAMPLE ID Cooler #63 distribution
DATE COLLECTED 08/30/90 09:00:00
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			120	EPA 310.1	2.0	08/31/90
1930	TDS			140	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)			76 F	EPA 170.1	N/A	08/30/90
1997	Langlier Index pHs			7.74	CALC	N/A	09/11/90
1998	Saturation Index			0.37	CALC	N/A	09/11/90
1999	Stability Index			7.37	CALC	N/A	09/11/90
2909	Foaming Agents			<0.1	EPA 425.1	0.1	08/31/90
9956	Field pH			8.2	EPA 360.1	0.1	08/30/90
9997	Field Chlorine			1.5			

Comments:

NOTE: Field data supplied by client.

ORLANDO LABORATORIES,INC.
Received: 08/30/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-08-380

SAMPLE ID Cooler #63 distribution
DATE COLLECTED 08/30/90 09:00:00
TEST NAME Radiological Analysis

SAMPLE# 014
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		1.1	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 # 90-08-380

SAMPLE ID Method Blank
DATE COLLECTED not specified
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	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: 90-08-380
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

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 (silvex)	100	0	96	96	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: _____
Public Water System Name: Pine Island
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: 90-08-380
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: Brian Heath, Lab Operator, 880-0058

ANALYSIS INFORMATION
Extraction Date (MMDDYY): / / 08/30/90 PWS029 08/31/90 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 _____

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 Services	1000 Color Place Apopka FL 32703	Dawn Balowich 880-0058	900 8380
4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL)	ADDRESS (CITY, STATE, ZIP)	5 CONTACT PERSON/PHONE # REPORT	6 RB NUMBER (LAB USE)
" "	" " " "	" "	1819
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO:	ADDRESS: (CITY, STATE, ZIP)		
8 CLIENT PROJECT NAME: Piccida Island		9 CLIENT PROJECT #: #564	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSES: Primary Inverts, Secondary Inverts, TVS3, Primary Organics, Pest/Herb	REMARKS
Cooler #63	8-30-90 9:00am		X	X			Distribution		X X X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	8/22 9:00	
2nd	[signature]	2:00 8-30-90	[signature]
3rd			

20 ADDITIONAL REMARKS: AD-5.2
Temp 26 F
Conductivity - 271
PH - 7.1

21 COOLER #'s: 63

22 SAMPLER'S SIGNATURE: Brian Heath

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0645

ORLANDO LABORATORIES INC.

Mark

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
1000 Color Place
Apopka, Florida 32703

Attn: Aaron Perlowich

Work Order # : 91-01-312
Date Received: 01/22/91
Date Reported: 02/06/91
OLI Contact: L_BALTZLEY

Item ID: 564 Piccicla Island PWS ID# 335/009
Total Samples: 3

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Composite #1	1_COMP Composite Data For Samples
02 Trip Blank	PWS022 Volatile Organic Analysis
03 Method Blank	PWS034 Unreg-Organic Purgeable
	PWS035 Unreg-Organic Pesticides
	PWS036 Unreg-Base Neutral Extract
	PWS037 Unreg-Acid Extractable

Copy of results to:

Brian Heath
300 N. Fern Drive
Leesburg, FL 34748

The Florida Department of Health [illegible] Laboratory Service Identification Numbers are:
Drinking Water Certification Number [illegible] Environmental Certification Number E83031

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John T. Hall
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
TEST NAME Composite Data For Samples

SAMPLE# 01A
MATRIX WATER
TEST CODE 1 COMP

NUMBER OF SAMPLES COMPOSITED: 5

	Sample Identification	Date & Time Collected
#1	PICCIOLA ISLAND WELL #1	01/23/91 10:00
#2	PICCIOLA ISLAND WELL #2	01/23/91 10:00
#3	HOBBY HILLS WELL #1	01/23/91 11:00
#4	HOBBY HILLS WELL #2	01/23/91 11:00
#5	PALM MOBILE HP WELL #1	01/23/91 12:00
#6		
#7		
#8		
#9		
#10		
#11		
#12		

The results for this composite can be found under the Sample ID of: COMPOSITE #1

Comments SAMPLES WERE COMPOSITED FOR PALM MOBILE HOME PARK, HOBBY HILLS AND PICCIOLA ISLAND.

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
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	01/28/91
2969	Para-dichlorobenzene			0.0005	U	EPA 524	0.0005	01/24/91
2976	Vinyl Chloride			0.0005	U	EPA 524	0.0005	01/24/91
2977	1,1-Dichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2980	1,2-Dichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2981	1,1,1-trichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2982	Carbon Tetrachloride			0.0005	U	EPA 524	0.0005	01/24/91
2984	Trichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2987	Tetrachloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2990	Benzene			0.0005	U	EPA 524	0.0005	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
TEST NAME Unreg-Organic Purgeable

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS034

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			0.00050 U	EPA 524	0.00050	01/24/91
2212	Dichlorodifluoro methane			0.00050 U	EPA 524	0.00050	01/24/91
2214	Bromomethane			0.00050 U	EPA 524	0.00050	01/24/91
2216	Chloroethane			0.00050 U	EPA 524	0.00050	01/24/91
2218	Trichlorofluoro methane			0.00050 U	EPA 524	0.00050	01/24/91
2224	trans-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/24/91
2228	cis-1,3-Dichloro propene			0.00050 U	EPA 524	0.00050	01/24/91
2251	Methyl tert-butyl -ether			0.00050 U	EPA 524	0.00050	01/24/91
2380	cis-1,2-Dichloro ethene			0.00050 U	EPA 524	0.00050	01/24/91
2408	Dibromomethane			0.00050 U	EPA 524	0.00050	01/24/91
2410	1,1-Dichloropropene			0.00050 U	EPA 524	0.00050	01/24/91
2412	1,3-Dichloropropane			0.00050 U	EPA 524	0.00050	01/24/91
2414	1,2,3-Trichloro propane			0.00050 U	EPA 524	0.00050	01/24/91
2416	2,2-Dichloropropane			0.00050 U	EPA 524	0.00050	01/24/91
2931	1,2-dibromo-3-chloro propane			0.00020 U	EPA 504	0.00020	01/28/91
2941	Chloroform			0.00050 U	EPA 524	0.00050	01/24/91
2942	Bromoform			0.00050 U	EPA 524	0.00050	01/24/91
2943	Bromodichloro methane			0.00050 U	EPA 524	0.00050	01/24/91

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313
Continued From Above

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
TEST NAME Unreg-Organic Purgeable

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS034

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

2944	Dibromochloro methane			0.00050	U	EPA 524	0.00050	01/24/91
2962	para-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2964	Methylene Chloride			0.00050	U	EPA 524	0.00050	01/24/91
2965	o-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2966	p-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2967	meta-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2968	o-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2978	1,1-Dichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2979	trans-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/24/91
2983	1,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/24/91
2985	1,1,2-Trichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2986	1,1,1,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2988	1,1,2,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2989	Chlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2991	Toluene			0.00050	U	EPA 524	0.00050	01/24/91
2992	Ethylbenzene			0.00050	U	EPA 524	0.00050	01/24/91
2993	Bromobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2995	meta-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2996	Styrene			0.00050	U	EPA 524	0.00050	01/24/91
2997	ortho Xylene			0.00050	U	EPA 524	0.00050	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
TEST NAME Unreg-Organic Pesticides

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS035

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(2)
(PWS035)

Parameter ID	Name	Sample Number	Location Code	Analysis Result(mg/l)		Analytical Method	Det. Lt. Used	Analysis Date
2031	Dalapon			0.00100	U	EPA 615	0.00100	01/28/91
2036	Oxamyl (Vydate)			0.00200	U	EPA 531	0.00200	01/30/91
2037	Simazine			0.00005	U	EPA 622	0.00005	01/27/91
2040	Picloram			0.00100	U	EPA 615	0.00100	01/28/91
2041	Dinoseb			0.00200	U	EPA 615	0.00200	01/28/91
2043	Aldicarb sulfoxide			0.00200	U	EPA 531	0.00200	01/30/91
2044	Aldicarb sulfone			0.00200	U	EPA 531	0.00200	01/30/91
2045	Metolachlor			0.00005	U	EPA 622	0.00005	01/27/91
2046	Carbofuran			0.00150	U	EPA 531	0.00150	01/30/91
2047	Aldicarb			0.00100	U	EPA 531	0.00100	01/30/91
2050	Atrazine			0.00005	U	EPA 622	0.00005	01/27/91
2051	Alachlor (Lasso)			0.00005	U	EPA 622	0.00005	01/27/91
2065	Heptachlor			0.00005	U	EPA 608	0.00005	01/27/91
2356	Aldrin			0.00005	U	EPA 608	0.00005	01/27/91
2364	Dieldrin			0.00010	U	EPA 608	0.00010	01/27/91
2440	Dicamba			0.00200	U	EPA 615	0.00200	01/28/91
2959	Chlordane			0.00050	U	EPA 608	0.00050	01/27/91
2326	Pentachlorophenol			0.05000	U	EPA 625	0.05000	01/25/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
TEST NAME Unreg-Base Neutral Extract

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS036

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			0.01000	U	EPA 625	0.01000	01/25/91
2063	Dioxin			0.01000	U	EPA 625	0.01000	01/25/91
2262	Isophorone			0.01000	U	EPA 625	0.01000	01/25/91
2270	2,4-dinitrotoluene			0.01000	U	EPA 625	0.01000	01/25/91
2282	Dimethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2284	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2290	Dinbutylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2294	Butyl benzyl phathalate			0.01000	U	EPA 625	0.01000	01/25/91
2298	Bis(2-ethylhexyl) phthalate			0.01000	U	EPA 625	0.01000	01/25/91
2378	1,2,4-trichloro benzene			0.01000	U	EPA 625	0.01000	01/25/91
2388	PCB-1016			0.00050	U	EPA 608	0.00050	01/27/91
2390	PCB-1221			0.00050	U	EPA 608	0.00050	01/27/91
2392	PCB-1232			0.00050	U	EPA 608	0.00050	01/27/91
2394	PCB-1242			0.00050	U	EPA 608	0.00050	01/27/91
2396	PCB-1248			0.00050	U	EPA 608	0.00050	01/27/91
2398	PCB-1254			0.00100	U	EPA 608	0.00100	01/27/91
2400	PCB-1260			0.00100	U	EPA 608	0.00100	01/27/91
9089	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Composite #1
DATE COLLECTED 01/23/91
TEST NAME Unreg-Acid Extractable

SAMPLE# 01A
MATRIX WATER
TEST CODE PWS037

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			0.01000	U	EPA 625	0.01000	01/25/91
9112	2-methyl-4,6-dinito phenol			0.05000	U	EPA 625	0.05000	01/25/91
9115	Phenol			0.01000	U	EPA 625	0.01000	01/25/91
9116	2,4,6-trichloro-phenol			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

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	01/28/91
2969	Para-dichlorobenzene			0.0005	U	EPA 524	0.0005	01/24/91
2976	Vinyl Chloride			0.0005	U	EPA 524	0.0005	01/24/91
2977	1,1-Dichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2980	1,2-Dichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2981	1,1,1-trichloroethane			0.0005	U	EPA 524	0.0005	01/24/91
2982	Carbon Tetrachloride			0.0005	U	EPA 524	0.0005	01/24/91
2984	Trichloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2987	Tetrachloroethene			0.0005	U	EPA 524	0.0005	01/24/91
2990	Benzene			0.0005	U	EPA 524	0.0005	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS034

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			0.00050	U	EPA 524	0.00050	01/24/91
2212	Dichlorodifluoro methane			0.00050	U	EPA 524	0.00050	01/24/91
2214	Bromomethane			0.00050	U	EPA 524	0.00050	01/24/91
2216	Chloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2218	Trichlorofluoro methane			0.00050	U	EPA 524	0.00050	01/24/91
2224	trans-1,3-Dichloro propene			0.00050	U	EPA 524	0.00050	01/24/91
2228	cis-1,3-Dichloro propene			0.00050	U	EPA 524	0.00050	01/24/91
2251	Methyl tert-butyl -ether			0.00050	U	EPA 524	0.00050	01/24/91
2380	cis-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/24/91
2408	Dibromomethane			0.00050	U	EPA 524	0.00050	01/24/91
2410	1,1-Dichloropropene			0.00050	U	EPA 524	0.00050	01/24/91
2412	1,3-Dichloropropane			0.00050	U	EPA 524	0.00050	01/24/91
2414	1,2,3-Trichloro propane			0.00050	U	EPA 524	0.00050	01/24/91
2416	2,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/24/91
2931	1,2-dibromo-3-chloro propane			0.00020	U	EPA 504	0.00020	01/28/91
2941	Chloroform			0.00050	U	EPA 524	0.00050	01/24/91
2942	Bromoform			0.00050	U	EPA 524	0.00050	01/24/91
2943	Bromodichloro methane			0.00050	U	EPA 524	0.00050	01/24/91

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313
Continued From Above

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Purgeable

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS034

UNREGULATED ORGANIC PURGEABLE ANALYSIS
17-550.410(1)
(PWS034)

2944 Dibromochloro methane			0.00050	U	EPA 524	0.00050	01/24/91
2962 para-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2964 Methylene Chloride			0.00050	U	EPA 524	0.00050	01/24/91
2965 o-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2966 p-Chlorotoluene			0.00050	U	EPA 524	0.00050	01/24/91
2967 meta-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2968 o-Dichlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2978 1,1-Dichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2979 trans-1,2-Dichloro ethene			0.00050	U	EPA 524	0.00050	01/24/91
2983 1,2-Dichloropropane			0.00050	U	EPA 524	0.00050	01/24/91
2985 1,1,2-Trichloroethane			0.00050	U	EPA 524	0.00050	01/24/91
2986 1,1,1,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2988 1,1,2,2-Tetrachloro ethane			0.00050	U	EPA 524	0.00050	01/24/91
2989 Chlorobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2991 Toluene			0.00050	U	EPA 524	0.00050	01/24/91
2992 Ethylbenzene			0.00050	U	EPA 524	0.00050	01/24/91
2993 Bromobenzene			0.00050	U	EPA 524	0.00050	01/24/91
2995 meta-Xylene			0.00050	U	EPA 524	0.00050	01/24/91
2996 Styrene			0.00050	U	EPA 524	0.00050	01/24/91
2997 ortho-Xylene			0.00050	U	EPA 524	0.00050	01/24/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Organic Pesticides

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS035

UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(2)
(PWS035)

Parameter ID	Name	Sample Number	Location Code	Analysis Result(mg/l)		Analytical Method	Det. Lt. Used	Analysis Date
2031	Dalapon			0.00100	U	EPA 615	0.00100	01/28/91
2036	Oxamyl (Vydate)			0.00200	U	EPA 531	0.00200	01/30/91
2037	Simazine			0.00005	U	EPA 622	0.00005	01/27/91
2040	Picloram			0.00100	U	EPA 615	0.00100	01/28/91
2041	Dinoseb			0.00200	U	EPA 615	0.00200	01/28/91
2043	Aldicarb sulfoxide			0.00200	U	EPA 531	0.00200	01/30/91
2044	Aldicarb sulfone			0.00200	U	EPA 531	0.00200	01/30/91
2045	Metolachlor			0.00005	U	EPA 622	0.00005	01/27/91
2046	Carbofuran			0.00150	U	EPA 531	0.00150	01/30/91
2047	Aldicarb			0.00100	U	EPA 531	0.00100	01/30/91
2050	Atrazine			0.00005	U	EPA 622	0.00005	01/27/91
2051	Alachlor (Lasso)			0.00005	U	EPA 622	0.00005	01/27/91
2065	Heptachlor			0.00005	U	EPA 608	0.00005	01/27/91
2356	Aldrin			0.00005	U	EPA 608	0.00005	01/27/91
2364	Dieldrin			0.00010	U	EPA 608	0.00010	01/27/91
2440	Dicamba			0.00200	U	EPA 615	0.00200	01/28/91
2959	Chlordane			0.00050	U	EPA 608	0.00050	01/27/91
2326	Pentachlorophenol			0.05000	U	EPA 625	0.05000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Base Neutral Extract

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS036

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			0.01000	U	EPA 625	0.01000	01/25/91
2063	Dioxin			0.01000	U	EPA 625	0.01000	01/25/91
2262	Isophorone			0.01000	U	EPA 625	0.01000	01/25/91
2270	2,4-dinitrotoluene			0.01000	U	EPA 625	0.01000	01/25/91
2282	Dimethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2284	Diethylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2290	Dinbutylphthalate			0.01000	U	EPA 625	0.01000	01/25/91
2294	Butyl benzyl phathalate			0.01000	U	EPA 625	0.01000	01/25/91
2299	Bis(2-ethylhexyl) phthalate			0.01000	U	EPA 625	0.01000	01/25/91
2378	1,2,4-trichloro benzene			0.01000	U	EPA 625	0.01000	01/25/91
2300	PCB-1016			0.00050	U	EPA 608	0.00050	01/27/91
2398	PCB-1221			0.00050	U	EPA 608	0.00050	01/27/91
2390	PCB-1232			0.00050	U	EPA 608	0.00050	01/27/91
2394	PCB-1242			0.00050	U	EPA 608	0.00050	01/27/91
2395	PCB-1248			0.00050	U	EPA 608	0.00050	01/27/91
2396	PCB-1254			0.00100	U	EPA 608	0.00100	01/27/91
2401	PCB-1260			0.00100	U	EPA 608	0.00100	01/27/91
9062	Di-n-octylphthalate			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-01-313

SAMPLE ID Method Blank
DATE COLLECTED not specified
TEST NAME Unreg-Acid Extractable

SAMPLE# 03A
MATRIX METHOD BLANK
TEST CODE PWS037

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			0.01000	U	EPA 625	0.01000	01/25/91
9112	2-methyl-4,6-dinitophenol			0.05000	U	EPA 625	0.05000	01/25/91
9115	Phenol			0.01000	U	EPA 625	0.01000	01/25/91
9116	2,4,6-trichlorophenol			0.01000	U	EPA 625	0.01000	01/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 01/23/91

REPORT OF ANALYSIS
NonReported Work

Work Order # 91-01-313

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 : 01-26-1991

LAB SAMPLE # : 9101294-2 524
ANALYSIS DATE : 1/24/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	43	86	46	92	7
trichloroethene	50	0	46	92	51	102	10
benzene	50	0	38	76	43	86	12 *
toluene	50	0	57	114	60	120	5
chlorobenzene	50	0	56	112	54	108	4

COMMENTS : * = parameter outside QC limits. due to matrix interference.

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

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-30-1991

LAB SAMPLE # : 9101343-04A
ANALYSIS DATE : 01/30/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	91	91	94	94	3

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	62	130	20	60	135	20

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-28-1991

LAB SAMPLE # : 9101199-01a
ANALYSIS DATE : 01/27/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	117	117	108	108	8
HEPTACHLOR	100	0	119	119	111	111	7
ALDRIN	100	0	114	114	97	97	16
DIELDRIN	100	0	113	113	103	103	9
ENDRIN	100	0	109	109	98	98	11
4,4-DDT	100	0	111	111	97	97	13

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 : 01-29-1991

LAB SAMPLE # : 9101343-01a
ANALYSIS DATE : 01/28/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
PICLORAM	100	0	83	83	100	100	19
2,4,5-TP (silver)	100	0	100	100	105	105	5

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

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-28-1991

LAB SAMPLE # : 9101199-01a
ANALYSIS DATE : 01/27/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALACHLOR	100	0	113	113	94	94	18

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALACHLOR	70	130	30	60	140	35

ORLANDO LABORATORIES INC.

GC/MS SEMI-VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 01-26-1991

LAB SAMPLE # : 9101343-2 625
ANALYSIS DATE : 1/25/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	122	61	135	68	10
2-chlorophenol	200	0	195	98	221	111	13
4-chloro-3-methylphenol	200	0	207	104 *	237	119 *	14
4-nitrophenol	200	0	129	65	141	71	9
pentachlorophenol	200	0	236	118 *	259	130 *	9
1,4-dichlorobenzene	100	0	104	104 *	117	117 *	12
n-nitroso-di-n-propylamine	100	0	102	102	109	109	7
1,2,4-trichlorobenzene	100	0	105	105 *	124	124 *	17
acenaphthene	100	0	100	100	109	109	9
2,4-dinitrotoluene	100	0	111	111 *	120	120 *	8
pyrene	100	0	103	103	115	115	11

COMMENTS : * = parameter outside QC limits. due to matrix interference.

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 : 01-28-1991

LAB SAMPLE # : 9101313-01A
ANALYSIS DATE : 01/28/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ETHYLENE DIBROMIDE	100	0	91	91	70	70	26 *

COMMENTS : * = parameter outside QC limits. due to matrix interference.

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ETHYLENE DIBROMIDE	50	100	20	35	90	20

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 336/009
Public Water System Name: Pine Island
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: V. Organics, Unreg-Organic Purge., Unreg-Organic Pesticides, Unreg-Base Neutral Ex. & Unreg-Acid Extractable.

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 01/23/91
Laboratory Sample Number: 91-01-313
Sample Location: Plant - Pine Island
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): 01/24/91, 01/25/91 & 01/28/91
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 2/7/91

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 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 Services 1000 Color Place Apopka FL. 32703	1-800-432-4501	9110515
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)	**5 CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
" " " " " " " " " " " "	(407) 880-0100	2990
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)	**17 NUMBER OF CONTAINERS**	
Brian Heath 300 N. Fern Dr. Sanford FL. 34748		
8 CLIENT PROJECT NAME	**9 CLIENT PROJECT #**	
#564	Piccida Island	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	18 REQUESTED ANALYSIS: 175V-U	19 REMARKS
Well #1	1-23-91 10:00AM		X	X			Well #1	X	
Well #2	1-23-91 10:00AM		X	X			" #2	X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st		1/9 9:00	
2nd	Lance Mueller	16:20 1-23-91	
3rd			

20 ADDITIONAL REMARKS	21 COOLER #'s
See Remarks on CoC R'Book 2996	XTRA

22 SAMPLER'S SIGNATURE: Brian E. Heath

ORIGINAL - LAB
YW - FILE

6990

SSU
SERVICES

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

May 6, 1991

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

Re: Palms Mobile Home PWS ID #3350981
Picciola Island PWS ID #3351009
Hobby Hills PWS ID #3350544

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
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: May 1 1991
PO Number: 111401

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

For: WELL SAMPLE
Date Received: Apr18 1991 Lab Number : 16698

REPORT OF ANALYSIS

Piccolo Island

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16698
Ethylene dibromide	mg/L	0.000005	97.3	13.0	<0.000005
Para-dichlorobenzene	mg/L	0.001	98.8	5.42	<0.001
Vinyl chloride	mg/L	0.001	94.6	6.87	<0.001
1,1-dichloroethene	mg/L	0.001	94.6	6.87	<0.001
1,2-dichloroethane	mg/L	0.001	94.1	1.49	<0.001
1,1,1-trichloroethan	mg/L	0.001	100	2.61	<0.001
Carbon tetrachloride	mg/L	0.001	103	1.27	<0.001
Trichloroethene	mg/L	0.001	105	.489	<0.001
Tetrachloroethene	mg/L	0.001	106	.068	<0.001
Benzene	mg/L	0.001	105	.502	<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 32715-057
305 [illegible]

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3351009
Public Water System Name Pinellas Island
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 16698
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 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 5/1/91

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)
(PWS029)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	16698	.00002	<.000005	EPA504.1	.000005	4/30/91
2969	Para-dichlorobenzene	16698	.075	<0.001	EPA502.2	0.001	4/25/91
2976	Vinyl chloride	16698	0.001	<0.001	EPA502.2	0.001	4/25/91
2977	1,1-dichloroethene	16698	0.007	<0.001	EPA502.2	0.001	4/25/91
2980	1,2-dichloroethane	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2981	1,1,1-trichloroethane	16698	0.2	<0.001	EPA502.2	0.001	4/25/91
2982	Carbon tetrachloride	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2984	Trichloroethene	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2987	Tetrachloroethene	16698	0.003	<0.001	EPA502.2	0.001	4/25/91
2990	Benzene	16698	0.001	<0.001	EPA502.2	0.001	4/25/91

Comments:

SSU
SERVICES

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

August 14, 1991

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

Re; Lake County - PW
Carlton Village PWS ID #3350152
Morningview PWS ID #3350852
East Lake Homes PWS ID #3350322
Friendly Center PWS ID #3350426
Hobby Hills PWS ID #3350544
Palms Mobile Homes PWS ID #3350981
Picciola Island PWS ID #3351009

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis third quarter 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
Frank Sanderson
Ralph Terrero
Clara Dozier
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU Serv/LANCE
1000 Color Place
Apopka,FL 32703

Date Reported: Aug 7 1991
PO Number: 23256
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: GRAB SAMPLE
Date Received: Jul31 1991 Lab Number : 17420

REPORT OF ANALYSIS

Priscola Island

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17420
Ethylene dibromide	mg/L	0.000005	98.2	.762	<0.000005
Para-dichlorobenzene	mg/L	0.001	93.8	3.03	<0.001
Vinyl chloride	mg/L	0.001	105	1.51	<0.001
1,1-dichloroethene	mg/L	0.001	105	1.51	<0.001
1,2-dichloroethane	mg/L	0.001	99.3	4.74	<0.001
1,1,1-trichloroethan	mg/L	0.001	101	2.84	<0.001
Carbon tetrachloride	mg/L	0.001	99.7	3.23	<0.001
Trichloroethene	mg/L	0.001	103	.830	<0.001
Tetrachloroethene	mg/L	0.001	101	1.21	<0.001
Benzene	mg/L	0.001	96.6	.971	<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 L. 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: 3351009
Public Water System Name Pine Island
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 17420
Sample Location (be specific): ___ & 2 Wells
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resample
( )Special_____
Sampler Name, Title Phone: Lance Shaffer

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 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	17420	.00002	<.000005	EPA504.1	.000005	8/5/91
2969	Para-dichlorobenzene	17420	.075	<0.001	EPA502.2	0.001	8/2/91
2976	Vinyl chloride	17420	0.001	<0.001	EPA502.2	0.001	8/2/91
2977	1,1-dichloroethene	17420	0.007	<0.001	EPA502.2	0.001	8/2/91
2980	1,2-dichloroethane	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2981	1,1,1-trichloroethane	17420	0.2	<0.001	EPA502.2	0.001	8/2/91
2982	Carbon tetrachloride	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2984	Trichloroethene	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2987	Tetrachloroethene	17420	0.003	<0.001	EPA502.2	0.001	8/2/91
2990	Benzene	17420	0.001	<0.001	EPA502.2	0.001	8/2/91

Comments:

A-1

[redacted] LABORATORIES

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-839

Attn: Dan Crocker

(1) Client: SSU Services | (2) Address: | (3) Phone:

(4) Public Drinking Water ID #: | (5) Public Water System Name:

(6) Project #: | (8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

(7) PO#: 23256

(9)		Preservative: HNO3	Preservative: ZnOAC/NaOH	Plastic Containers: 60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	Glass Containers: 40ml	250ml	500ml	1L	2L	4L
	16									X					

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

5 wells
PLZ Composite

(12) Oil Relinquished: | (13) Date: | (14) Time: | (15) Oil Received: | (16) Date: | (17) 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: VOA → Hobby Hills[558]/102, Palm Mobile Homes[559], Picciola Island[564]/102.

(18) 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
17420	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	[signature]	7-31-91	15:45
(17) Transporters Signature:	[signature]	7-31-91	15:45
(19) Lab Acceptance By:	[signature]	7/31/91	2:45

SSU SERVICES

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

October 28, 1991

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

Re: Lake County PW
Hobby Hills PWS ID #3350544
Palms Mobile Homes PWS ID #3350981
Picciola Island PWS ID #3351009

Dear Ms. Carrasquillo,

Enclosed please find results for Volatile Organic Analysis, ~~third~~ 4th quarter 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: Oct21 1991
PO Number: L114552
PO Number Hobby Hills,e
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 558,559,564
Date Received: Oct16 1991
Lab Number : 18036

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18036
Ethylene dibromide	mg/L	0.000005	111	2.25	<0.000005
Para-dichlorobenzene	mg/L	0.001	93.5	1.54	<0.001
Vinyl chloride	mg/L	0.001	107	1.94	<0.001
1,1-dichloroethene	mg/L	0.001	107	1.94	<0.001
1,2-dichloroethane	mg/L	0.001	106	1.35	<0.001
1,1,1-trichloroethan	mg/L	0.001	108	2.17	<0.001
Carbon tetrachloride	mg/L	0.001	106	1.68	<0.001
Trichloroethene	mg/L	0.001	105	.894	<0.001
Tetrachloroethene	mg/L	0.001	103	2.58	<0.001
Benzene	mg/L	0.001	105	1.16	<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.
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P.O. BOX 150-597
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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 Piccola Island
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 18036
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 10/19/91

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	18036	.00002	<.000005	EPA504.1	.000005	10/17/91
2969	Para-dichlorobenzene	18036	.075	<0.001	EPA502.2	0.001	10/17/91
2976	Vinyl chloride	18036	0.001	<0.001	EPA502.2	0.001	10/17/91
2977	1,1-dichloroethene	18036	0.007	<0.001	EPA502.2	0.001	10/17/91
2980	1,2-dichloroethane	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2981	1,1,1-trichloroethane	18036	0.2	<0.001	EPA502.2	0.001	10/17/91
2982	Carbon tetrachloride	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2984	Trichloroethene	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2987	Tetrachloroethene	18036	0.003	<0.001	EPA502.2	0.001	10/17/91
2990	Benzene	18036	0.001	<0.001	EPA502.2	0.001	10/17/91

Comments:

FLOWERS

CHEMICAL LABORATORIES, INC.

FDER Lab# E83018
FDHRS Lab# E81128
NCDEHNR Lab# 284
SCDHEC Lab# 99019

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

ATTN: Don Corder

(1)Client: SSU

(2)Address: 1000 COUR PLACE APOPKA, FL. 32703

(3)Phone: 880-0058

(4)Public Drinking Water ID #:

(5)Public Water System Name:

(6)Project #: MPOs L 114552

(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 :
(16) 15										X						HOBBY HILLS (2 WELLS) PALMS M.H. (1 WELL) PICCIOLA ISLAND (2 WELLS)

(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 HECK - WTP1 - 2
	#2 HECK - WTP2 - 2
180316	#3 PCRA - WTP - 2
	#4 PICA - WTP1 - 2
	#5 PICA - WTP2 - 2
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	[signature]	10/16/91	
(14)Transporters Signature:	[signature]	10-16-91	
(15)Lab Acceptance By:	[signature]	10/16/91	3:44

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

I.D. NO. 13003
FOR LAB USE ONLY
REPORT
DEC 12 1 18 PM '91
BY: D. RAZANIS
12/13

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Picciola Isle #564 SYSTEM I.D. NO: 3351009 SYSTEM PHONE #: 800-432-4501

ADDRESS: Albert COUNTY: Lake Co DER DISTRICT: Cen/Fcl

COLLECTOR: John Havercost COLLECTOR PHONE #: 800.432.4501

SAMPLE SITE (Locality or Subdivision): Picciola

DATE AND TIME COLLECTED: 12-12-91 10:30am

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
W-1	Well #1	0.0		053798		A		
W-2	Well #2	0.0		053799		A		
T	Tank	1.5		053800		A		
R-1	33425 Picciol Dr.	1.2		053801		A		
R-2	05245 Fredrick	1.6		053802		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 865, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5760-000-0865-1)

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: _____

TITLE: DER

Pine Ridge Estates - 782

Osceola County (SSU)

Water

- 1992 FPSC Filing -

Pineridge Estates

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	3/88
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 Pine Ridge Water System
ID #3494292

Dear Ms. Carrasquillo,

Please find enclosed for your records, Primary Organics, Inorganics, Secondary Contaminants, and Turbidity analysis for the [redacted] Pineridge distribution system.

We have noted that the M.C.L. for Turbidity, Iron and 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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr 9 1991
PO Number: 22372
PO Number Pine Ridge
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16554

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16554
Turbidity	NTU	0.05	100	.000	1.1
Arsenic	mg/L	0.0005	107	2.11	<0.0005
Barium	mg/L	0.01	105	2.11	0.22
Cadmium	mg/L	0.001	99.9	.263	0.005
Chromium	mg/L	0.005	107	.364	<0.005
Fluoride	mg/L	0.05	104	1.56	0.105
Lead	mg/L	0.001	94.0	10.3	0.0082
Mercury	mg/L	0.0002	102	4.05	<0.0002
Nitrate(as N)	mg/L	0.01	142	2.47	0.0477
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	0.0775
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	46.5
Chloride	mg/L	0.015	101	2.47	6.32
Carbonate_CaCO3	mg/L	0.1			72.3
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	105	.413	0.019
Bicarbonate _CaCO3	mg/L	0.1			71.7
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 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: Apr 9 1991
PO Number: 22372
PO Number Pine Ridge
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar27 1991 Lab Number : 16554

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16554
Iron	mg/L	0.01	101	.433	0.305
Magnesium	mg/L	0.01	108	.722	10.01
Manganese	mg/L	0.005	103	.728	0.08
Sulfate	mg/L	0.2	91.5	2.1	52.7
Zinc	mg/L	0.001	102	1.05	0.051
Carbon_Dioxide	mg/L	0.1			1.9
Color	mg/L	5	-	.000	15
Total_Hardness	mg/L	0.1			157.6
NCH_as_CaCO3	mg/L	0.1			85.3
Odor(TON)	TON	1	-	-	<1
Field_pH	pH	0.01			7.4
Lab_pH	pH	0.01	100	.316	7.9
Field Conductivity	umhos/c	0.01			7
Total Alkalinity	mg/L	0.1	99.4	.667	72.3
TDS	mg/L	2.5	95.3	3.77	200
Phenolphthalein Alk.	mg/L	0.1			-
Field Temp. (C)	oC	1			25
Langelier Index	LX	0.01			-0.05
Saturation Index	pHs	0.01			7.95
Stability Index	pH	0.01			8
Foaming Agents	mg/L	0.1	99.7	1.02	<0.1
Field DO	mg/L	0.1			6
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) 260-6110

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	16554	1	1.10	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	16554	0.05	<0.0005	EPA206.3	0.0005	4/5/91
1010	Barium	16554	1	.220	EPA208.1	0.01	4/5/91
1015	Cadmium	16554	0.01	.00500	EPA213.1	0.001	4/4/91
1020	Chromium	16554	0.05	<0.005	EPA218.1	0.005	4/4/91
1025	Fluoride	16554	4	.105	EPA340.1	0.05	3/28/91
1030	Lead	16554	0.05	.00820	EPA239.2	0.001	4/8/91
1035	Mercury	16554	0.002	<0.0002	EPA245.1	0.0002	4/2/91
1040	Nitrate(as N)	16554	10	.0477	EPA353.1	0.01	04-03-91
1045	Selenium	16554	0.01	<0.0005	EPA270.3	0.0005	4/5/91
1050	Silver	16554	0.05	<0.005	EPA272.1	0.005	4/1/91
1052	Sodium	16554	160	.0775	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	16554	0.0002	<.000001	EPA508	.000001	4/1/91
2010	Lindane	16554	0.004	<.000001	EPA508	.000001	4/1/91
2015	Methoxychlor	16554	0.1	<0.00001	EPA508	0.00001	4/3/91
2020	Toxaphene	16554	0.005	<0.0001	EPA508	0.0001	4/1/91
2105	2,4-D	16554	0.1	<0.00005	EPA515	0.00005	4/3/91
2110	2,4,5-TP(Silvex)	16554	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	16554		46.5	EPA215.1	0.1	4/4/91
1017	Chloride	16554	250	6.32	EPA300.0	0.015	04-01-91
1019	Carbonate CaCO3	16554		72.3	SM314A	0.1	4/4/91
1021	Hydroxide CaCO3	16554		0.0	SM406C	0.1	4/4/91
1022	Copper	16554	1	.0190	EPA220.1	0.005	4/3/91
1023	Bicarbonate CaCO3	16554		71.7	SM406C	0.1	4/4/91
1026	Carbonate Alkalinity	16554		0.5	SM406C	0.1	4/4/91

1027	Hydrogen Sulfide	16554			EPA376.1	0.5	
1028	Iron	16554	0.3	.305	EPA236.1	0.01	4/2/91
1031	Magnesium	16554		10.1	EPA242.1	0.01	4/4/91
1032	Manganese	16554	0.05	.0800	EPA243.1	0.005	3/29/91
1055	Sulfate	16554	250	52.7	EPA300.0	0.200	4/8/91
1095	Zinc	16554	5	.0510	EPA289.1	0.001	4/3/91
1901	Carbon Dioxide	16554		1.8	SM406C	0.1	4/4/91
1905	Color	16554	15	15.0	EPA110.1	5	4/1/91
1915	Total Hardness	16554		157.6	SM314A	0.1	4/4/91
1917	NCH as CaCO3	16554		85.3	SM314A	0.1	4/4/91
1920	Odor(TON)	16554	3	<1	EPA140.1	1	4/1/91
1924	Field pH	16554	6.5-8.5	7.4	EPA150.1	0.01	
1925	Lab pH	16554	6.5-8.5	7.90	EPA150.1	0.01	4/1/91
1926	Field Conductivity	16554		7.0	-	0.01	
1927	Total Alkalinity	16554		72.3	EPA310.1	0.1	3/29/91
1930	TDS	16554	500	200	EPA160.1	2.5	4/1/91
1931	Phenolphthalein Alk.	16554			EPA310.1	0.1	
1996	Field Temp. (C)	16554		25.0	-		1 4/4/91
1997	Langelier Index	16554	-0.2:+0.2	-0.05	SM203	0.01	4/4/91
1998	Saturation Index	16554		7.95	SM203	0.01	4/4/91
1999	Stability Index	16554		8.00	SM203	0.01	4/4/91
2909	Foaming Agents	16554	0.5	<0.1	EPA425.1	0.1	4/1/91
9996	Field DO	16554		6.0	-	0.1	
9997	Field Chlorine	16554			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3494792
Public Water System Name Pine Ridge Oscola 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 16554
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 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 4/9/91

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

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
Sampler Signature Date Sampled

FCL Client No. S033
FCL Project Manager LAURIE SEBECK
FCL Lab Coordinator Steve Welsh
Requested Due Date:
P.O. Number 22373
Project Name / No. PINE RIDGE #349434 PLANT # 78
Contact SAM SPEERS

$475.00

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST
1				16554						
2										
3										
4										
5										
6										

CARRIER	BAILERS	SHIP DATES: OUT / DATE	SHIP DATES: RETURNED / DATE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				Stephen Nicholas	3-21			3/27	3:10

SPECIAL INSTRUCTIONS
PH 7.4
DO [redacted] 2.0
TEMP. 77°F
CONDUCT. 9.0

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

0693

S S U
SERVICES

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

May 24, 1991

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

Re: Drinking Water Analysis Re-sample
for Pineridge Water System
ID #349492

Dear Ms. Carrasquillo,

Please find enclosed for your records, re-sample analysis for Turbidity for the Pineridge water distribution system. The Iron and Manganese re-samples exceeded M.C.L. limits and will be re-sampled again.

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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: May15 1991
PO Number: 22691
PO Number Pineridge
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: TB FE/MN
Date Received: May 9 1991 Lab Num: 16860-16863

REPORT OF ANALYSIS

	Turbidity NTU	Calcium mg/L	Chloride mg/L	Carbonate_CaCO3 mg/L
Recovery:	95.0			
Precision:	.000			
Detection limit:	0.05	0.1	0.015	0.1
Client ID Lab Number				
16860	0.74	-	-	-
16861	0.15	-	-	-
16862	0.22	-	-	-

Data Release Authorized by

Date Analysis Began

Date Analysis Completed

Results of analysis in accordance with FDER and EPA approved methodology.

Andrew Harrison
Laboratory Manager

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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: May15 1991
PO Number: 22691
PO Number Pineridge
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: TB FE/MN
Date Received: May 9 1991 Lab Num: 16860-16862

REPORT OF ANALYSIS

	Hydrogen_Sulfide mg/L	Iron mg/L	Magnesium mg/L	Manganese mg/L
Accuracy:		110		110
Precision:		1.71		1.41
Det.Limit:	0.5	0.01	0.01	0.005
Client ID				
Lab Number				
1				
16860	-	0.889	-	1.05
2				
16861	-	0.756	-	0.85
3				
16862	-	0.869	-	1.09

Data Release Authorization
Data 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 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: 3494292
Public Water System Name Pine Ridge
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 ___;
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: 16860
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

DER /ACPHU Reviewing Offical:

_____

Mail Results to the
Appropriate DER or ACPHU Office:

_____
_____
_____
_____

PWSA.01 Sample Interpretation (check one):
Effective 0 () 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	16860	1	.740	EPA180.1	0.05	5/15/91

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	16860			EPA215.1	0.05	
1017	Chloride	16860	250		EPA300.0	0.1	
1019	Carbonate_CaCO3	16860			SM314A	0.015	
1021	Hydroxide_CaCO3	16860			SM406C	.0.1	
1022	Copper	16860	1		EPA220.1	0.1	
1023	Bicarbonate_CaCO3	16860			SM406C	0.005	
1026	Carbonate_Alkalinity	16860			SM406C	0.1	
1027	Hydrogen_Sulfide	16860			EPA376.1	0.1	
1028	Iron	16860	0.3	.889	EPA236.1	0.50	5/14/91
1031	Magnesium	16860			EPA242.1	0.01	
1032	Manganese	16860	0.05	1.05	EPA243.1	0.010	5/15/91
1055	Sulfate	16860	250		EPA300.0	0.005	
1095	Zinc	16860	5		EPA289.1	0.200	
1901	Carbon_Dioxide	16860			SM406C	0.001	
1905	Color	16860	15		EPA110.1	0.1	
1915	Total_Hardness	16860			SM314A	5	
1917	NCH_as_CaCO3	16860			SM314A	0.1	
1920	Odor(TON)	16860	3		EPA140.1	0.1	
1924	Field_pH	16860	6.5-8.5		EPA150.1	1	
1925	Lab_pH	16860	6.5-8.5		EPA150.1	0.01	
1926	Field_Conductivity	16860			-	0.01	
1927	Total_Alkalinity	16860			EPA310.1	0.1	
1930	TDS	16860	500		EPA160.1	2.5	
1931	Phenolphthalein_Alk.	16860			EPA310.1	0.1	
1996	Field_Temp. (C)	16860			-		1
1997	Langelier_Index	16860	-0.2:+0.2		SM203	0.01	
1998	Saturation_Index	16860			SM203	0.01	
1999	Stability_Index	16860			SM203	0.01	
2909	Foaming_Agents	16860	0.5		EPA425.1	0.1	
9996	Field_DO	16860			-	0.1	
9997	Field_Chlorine	16860			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3490292
Public Water System Name Pine Ridge
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_X_;Inorganic_X_; 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: 16861
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

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	16861	1	.150	EPA180.1	0.05	5/15/91

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	16861			EPA215.1	0.05	
1017	Chloride	16861	250		EPA300.0	0.1	
1019	Carbonate CaCO3	16861			SM314A	0.015	
1021	Hydroxide CaCO3	16861			SM406C	0.1	
1022	Copper	16861	1		EPA220.1	0.1	
1023	Bicarbonate CaCO3	16861			SM406C	0.005	
1026	Carbonate Alkalinity	16861			SM406C	0.1	
1027	Hydrogen Sulfide	16861			EPA376.1	0.1	
1028	Iron	16861	0.3	.756	EPA236.1	0.50	5/14/91
1031	Magnesium	16861			EPA242.1	0.01	
1032	Manganese	16861	0.05	.850	EPA243.1	0.010	5/15/91
1055	Sulfate	16861	250		EPA300.0	0.005	
1095	Zinc	16861	5		EPA289.1	0.200	
1901	Carbon Dioxide	16861			SM406C	0.001	
1905	Color	16861	15		EPA110.1	0.1	
1915	Total Hardness	16861			SM314A	5	
1917	NCH as CaCO3	16861			SM314A	0.1	
1920	Odor(TON)	16861	3		EPA140.1	0.1	
1924	Field pH	16861	6.5-8.5		EPA150.1	1	
1925	Lab pH	16861	6.5-8.5		EPA150.1	0.01	
1926	Field Conductivity	16861			-	0.01	
1927	Total Alkalinity	16861			EPA310.1	0.1	
1930	TDS	16861	500		EPA160.1	2.5	
1931	Phenolphthalein Alk.	16861			EPA310.1	0.1	
1996	Field Temp. (C)	16861			-		1
1997	Langelier Index	16861	-0.2:+0.2		SM203	0.01	
1998	Saturation Index	16861			SM203	0.01	
1999	Stability Index	16861			SM203	0.01	
2909	Foaming Agents	16861	0.5		EPA425.1	0.1	
9996	Field DO	16861			-	0.1	
9997	Field Chlorine	16861			-	0.1	

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3494292
Public Water System Name Pineridge
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_X_;Inorganic_X_; 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: 16862
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

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	16862	1	.220	EPA180.1	0.05	5/15/91

Comments:

Secondary Chemical Analysis
17-550.320
(PWS031)

Parameter ID	Name	Sample Nu nber	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
1016	Calcium	16862			EPA215.1	0.05	
1017	Chloride	16862	250		EPA300.0	0.1	
1019	Carbonate CaCO3	16862			SM314A	0.015	
1021	Hydroxide CaCO3	16862			SM406C	0.1	
1022	Copper	16862	1		EPA220.1	0.1	
1023	Bicarbonate CaCO3	16862			SM406C	0.005	
1026	Carbonate Alkalinity	16862			SM406C	0.1	
1027	Hydrogen Sulfide	16862			EPA376.1	0.1	
1028	Iron	16862	0.3	.869	EPA236.1	0.50	5/14/91
1031	Magnesium	16862			EPA242.1	0.01	
1032	Manganese	16862	0.05	1.08	EPA243.1	0.010	5/15/91
1055	Sulfate	16862	250		EPA300.0	0.005	
1095	Zinc	16862	5		EPA289.1	0.200	
1901	Carbon Dioxide	16862			SM406C	0.001	
1905	Color	16862	15		EPA110.1	0.1	
1915	Total Hardness	16862			SM314A	5	
1917	NCH as CaCO3	16862			SM314A	0.1	
1920	Odor(TON)	16862	3		EPA140.1	0.1	
1924	Field pH	16862	6.5-8.5		EPA150.1	1	
1925	Lab pH	16862	6.5-8.5		EPA150.1	0.01	
1926	Field Conductivity	16862			-	0.01	
1927	Total Alkalinity	16862			EPA310.1	0.1	
1930	TDS	16862	500		EPA160.1	2.5	
1931	Phenolphthalein Alk.	16862			EPA310.1	0.1	
1996	Field Temp. (C)	16862			-		1
1997	Langelier Index	16862	-0.2:+0.2		SM203	0.01	
1998	Saturation Index	16862			SM203	0.01	
1999	Stability Index	16862			SM203	0.01	
2909	Foaming Agents	16862	0.5		EPA425.1	0.1	
9996	Field DO	16862			-	0.1	
9997	Field Chlorine	16862			-	0.1	

Comments:

A-12

CHEMICAL LABORATORIES INCORPORATED

FDER Lab [illegible]
FDHRS Lab [illegible]
NCDEHNR Lab 248
SCDHEC Lab [illegible]

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

(1)Client	(2)Address	(3)Phone
SSU	1000 Colonial Blvd	939 9100
(4)Public Drinking Water ID # 3494292	(5)Public Water System Name: Pine Ridge	
(6)Project # 782 Pine Ridge	(8)Public Water System Type	
(7)PO# 221691	(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											10 Working Days:
																5 Working Days :
																3 Working Days :
																1 Working Day :
																Other :

(10)Relinquished:	(10)Date	(11)Received	(11)Date
	(10)Time		(11)Time

12) SAMPLE INFORMATION; SAMPLE DATE: MONTH____ DATE____ YEAR____
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, (X) plant tap,
( ) raw, ( ) well, (X) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:
(3) Fe
Mn
Tb

* Sample #3 Turbidity will be brought to lab 5/10

(13)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 ;

(14)Laboratory Number	(15)Client Sample Identification			Date	Time
16860	#1	5/7/91	9:00	(HUNT)	
16861	#2	5/8/91	3:00	(HUNT)	
16862	#3	5/9/91	8:30	(HUNT)	
	#4	5/8/91	3:00		
	#5	5/9/91	8:30		
	#6				
	#7				
	#8				
	#9				
	#10				

(16)Collectors Signature: [illegible] 5/9/91
(17)Transporters Signature: [illegible] 5/9/91 1:45
(19)Lab Acceptance By: [illegible]

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 / Pineridge Estates
Osceola County / PWS ID # 3494292

Dear Ms. Carrisquillo:

Please find enclosed for your records three resample analyses for Manganese for the Pineridge Estates 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 # : 91-12-216
Date Received: 12/13/91
Date Reported: 12/19/91
OLI Contact: J_BEATO

Work ID: Pineridge Est.
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 83141, Environmental Certification Number E83033

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

The Analytical Specialists

ORLANDO LABORATORIES,INC.
Received: 12/13/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-12-216

SAMPLE ID 1	SAMPLE # 01A
DATE COLLECTED 12/11/91 12:15:00	MATRIX WATER
MN_ICP <0.030 mg/l	

SAMPLE ID 2	SAMPLE # 02A
DATE COLLECTED 12/12/91 14:00:00	MATRIX WATER
MN_ICP <0.030 mg/l	

SAMPLE ID 3	SAMPLE # 03A
DATE COLLECTED 12/12/91 11:45:00	MATRIX WATER
MN_ICP <0.030 mg/l	

Southern States Utilities
Attn: Sam Sparks

Report No: 91-12-216
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: 3494292
Public Water System Name: Pineridge Est.
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: 91-12-216
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 12/14/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

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

0709

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)
SSO Services 1000 Colorplace Apopka Fl. 32703

2 CONTACT PERSON PHONE # INVOICE
880-6058 Sam Sparks

3 OLI WORK ORDER # (LAB USE)
9112216

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
Pineridge Est.

9 CLIENT PROJECT #

17 NUMBER OF CONTAINERS

18 REQUESTED ANALYSIS
Manganese

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	REMARKS 19
①	12/11 1215		✓	✓			Entry to distribution	✓
②	12/12 200		✓	✓			"	✓
③	12/13 1145		✓	✓			"	✓

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	12/10 1135	
2nd	William Sparks	12/12 4:00	[signature]
3rd	[signature]	12/13 ~~4:05~~	Ruth Jenrette

20 ADDITIONAL REMARKS

21 COOLER #s

22 William Sparks
SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

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 Pine Ridge Water System
ID #349292

Dear Ms. Carrasquillo,

Please find enclosed for your records, Volatile Organics and Unregulated Contaminant analysis for the Pine Ridge water treatment plant, well #1 and #2.

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 greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm

cc: Charles Sweat
Mel Fisher
Clara Dozier
Ralph Terrero
Osceola County
File

FLOWEL

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# : 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
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	9.92	<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	112	.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-dichloropr	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-dichloropropene	mg/L	0.001	109	4.17	<0.001
1,3-dichloropropane	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-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 FCL QA and EPA approved methodology.

Jeffrey [illegible], 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) 260-6117

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Mar26 1991
PO Number: B91047

PO Number
FDHRS Lab# : B3139
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
o-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	11?	2.77	<0.001
o-dichlorobenzene	mg/L	0.001	109	4.27	<0.001
1,1-dichloroethane	mg/L	0.001	103	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	113	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	.823	<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
Dalapon	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	99.8	1.62	<0.007
Pr[illegible]tram	mg/L	0.00007	117	9.67	<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.

[illegible], Ph.D.
[illegible]

Jefferson L. Flowers, Ph.D.
Jefferson L. 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: Mar26 1991
PO Number: B91047

PO Number
FDHRS Lab# : 93139
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
Dinoseb	mg/L	0.00001	108	7.20	<0.00001
Aldicarb sulfoxide	mg/L	0.002	93.9	.000	<0.002
Aldicarb sulfone	mg/L	0.002	100	15.1	<0.002
Metolachlor	mg/L	0.0005	102	5.55	<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	11.9	<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	107	7.97	<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	3.41	<0.00001
Isophorone	mg/L	0.001	99.3	19.0	<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	99.0	4.37	<0.001
Bis(2-ethylhexyl)pht	mg/L	0.001	103	5.68	<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	3.00	<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 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: 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	%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	.659	<0.0001
Dioctylphthalate	mg/L	0.001	100	3.63	<0.001
2-ch orophenol	mg/L	0.001	94.0	6.62	<0.001
2-methyl-4,6-dinitrop	mg/L	0.001	100	9.37	<0.001
Phenol	mg/L	0.001	105	4.60	<0.001
2,4,6-trichlorophenol	mg/L	0.001	91.3	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

Page - 3 of 4

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: FL 94292
Public Water System Name Pine Ridge Estates 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 ( )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 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	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-tetrachloroetha	16410	<0.001	EPA502.2	0.001	3/17/91
2988	1,1,2,2-tetrachloroetha	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	Picloram	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

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Jun11 1991
PO Number: 891045
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : ES8018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

Port: COMP. SAMPLE
Date Received: Jun 6 1991 Lab Number : 17110

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17110
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	.258	<0.001

Data Release Authorization

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

Andrew Harrison
Laboratory Manager

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) 260-0113

ANALYTICAL & CONSULTING CHEMISTS
CHEMICAL LABORATORIES INCORPORATED

CHAIN OF CUSTODY RECORD

Sam Sparks

CLIENT: SSJ	ADDRESS: 1000 Colon Place Apopka, FL 32703	PHONE: 880-0055 x16.
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
10														X					
1																			X

NOTES: 5 wells 1 sample (Lab comp of Vials)

Kit Relinquished:	Date: Time:	Kit Received:	Date: Time:

Parameters: Proc UA 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
BUS (407) 339-5984
FAX (407) 260-6110

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
Pineridge Estates Water System
ID #3494292

Dear Ms. Carrasquillo,

Please find enclosed for your records, second quarter Volatile Organic analysis for the Pineridge Estates water treatment plant, wells #1 and #2.

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 greatly appreciated.

Sincerely,

SSU Services

Sam Sparks
Division Supervisor

SS/jlm
cc: Charles Sweat
Mel Fisher
Clara Dozier
Osceola County
File

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:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3494292
Public Water System Name Oakridge Estates
Public Water System Type (check one):
( )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 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 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]

FDER Lab# 883618
FDHRS Lab# 83126
FDOE/ERIR Lab# 298
SCDHEC Lab# 96019

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

Attn: Sam Sparks

(1) Client	(2) Address	(3) Phone
ESE	1000 Colorplace Apopka Fl 32703	886-0056

(4) Public Drinking Water ID #	(5) Public Water System Name:
(6) Project #	(8) Public Water System Type
(7) PO# B41045	(X) Community ( ) Non-Community ( ) Special Non-Community

		Preservative				Plastic Containers						Glass Containers						NOTES:
		HNO3	H2SO4	NaOH	ZnOAc	60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
9	15											X						(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, FLEX Cont

(10) Relinquished: [redacted] (11) Date 6-24 (12) Time

(13) Received (14) Date (15) 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: Thomas Eric TITLE: operator II PHONE:_____
SAMPLER'S SIGNATURE: [redacted]
NOTES:

(No Air Bubble
Keep Cold)

(16) Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Trihalomethane__; Volatile Organics X;
Organic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base Neutral Extractable__; Unregulated Acid Extractable__;

(1) Laboratory Number	(15) 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 Well 6/3	
	#3 Intercession City Well #1 6/4	#14 Windsong Well 6/4	
17110	#4 Intercession City Well #2 6/4	#15 Windsong Well 6/4	
	#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
(2) Collectors Signature:	[redacted]	6/3-4-5	
(3) Transporters Signature:	[redacted]	6/11	
(4) Lab Acceptance By:	[redacted]	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
Pine Ridge Water System
PWS ID #3494292

Dear Ms. Carrasquillo,

Please find enclosed for your records, third quarter Volatile Organic analysis for the Pine Ridge treatment plant, well #1 and #2.

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

BG10471

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Sep23 1991
PO Number: HOLD REPOF
PO Number Various
FDHRS Lab# : 83139
FDER Lab# : EB3018
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 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) 260-0112

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3494292
Public Water System Name Pine Ridge 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___;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 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	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:

FLOWERS CHEMICAL LABORATORIES INCORPORATED

B 91047

FDER Lab# E82018
FDHRS Lab# 82139
NCCEHNR Lab# 256
SCCHEC Lab# 96018

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

ATTN: Sam Speers

(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#

(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
(18) 15									X					

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

Intersession City - 2 wells #3490673
Pine Ridge Est - 2 wells #3494292
Windsong - 1 well #3494291

(17)Kit Relinquished: K. Sebeck

(17)Date: 9-12-91

(17)Time: 11:30am

(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
17839	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	Bill Jurdi	9/11	3:25
(14)Transporters Signature:	Bill Jurdi	9/11	3:30
(15)Lab Acceptance By:		9/12	

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
Pineridge Estates / PWS ID # 3494292

Dear Ms. Carrisquillo:

Please find enclosed for your records, fourth quarter Volatile Organic analysis for the Pineridge Estates water treatment plant, well # 1 and well # 2.

These results are combined with two 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: INTER.CITY COMP.
Date Received: Dec11 1991 Lab Number : 18477

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18477
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 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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3494292
Public Water System Name Pineridge Est
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 18477
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 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 06/01/1 () 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# 830018
FDHRS Lab# 82139
NCDENR Lab# 256
SCDHEC Lab# 99019

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 #

(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 (2) TWO SOWS - (1 well) #349029
(15)	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 12-5-91	(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	Lilmsong 1 well
18476	#2	Tropical Park 2 wells
	#3	Bay Lk 1 well
	#4	Lk Asay 1 well
	#5	
	#6	
18477	#7	Intersession City 2 wells
	#8	Pineridge Est 2 wells
	#9	
	#10	

Comp.

		Date	Time
(13)Collectors Signature:	Bill Sewell	12/11	1100
(14)Transporters Signature:			
(15)Lab Acceptance By:		12/11/91	3:27

Over for numbered instructions.

File Pine Ridge

Orlando Laboratories, Inc.

P. O. Box 19127 • Orlando, Florida 32814 • 305/896-6845

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

Report: 51902 (5234)
Sample submitted by: Client(J.Johnson) *
Date Sampled: 03-21-88 *
Date Received: 03-21-88
Date Reported: 04-14-88

PURPOSE: To analyze the samples for Secondary Drinking Water Regulations.
AUTHORIZATION: Sample Identification Form received from client 03-21-88
SAMPLE IDENTIFICATION: Samples submitted and identified by client as:
Pine Ridge Distribution & Entry to Distribution.
PROCEDURE: This water was analyzed according to "Standard Methods for the Examination of Water and Wastewater", 16th Edition, APHA, AWWA, and WPCF (1985).
RESULTS:

RESULTS

DETERMINATION	(MCL)	PINE RIDGE	UNITS
Chloride, Cl	(250)	10	mg/l
Color, PCU	(15)	<5	PCU
Foaming Agents, (MBAS)	(0.5)	<0.10	mg/l
Sulfate, SO_4	(250)	49	mg/l
Total Dissolved Solids	(500)	190	mg/l
pH (Laboratory)	(6.5-8.5)	7.7	units
Odor Threshold	(3)	1	units
Copper, Cu	(1.0)	0.340	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. Zenas
Laboratory Manager

Quality Control

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

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51902 (5234)

GENERAL WATER ANALYSIS

DETERMINATION	PINE RIDGE	UNITS
Phenolphthalein Alkalinity, $CaCO_3$	0	mg/l
Total Alkalinity, $CaCO_3$	102	mg/l
Carbonate Alkalinity, $CaCO_3$	0	mg/l
Bicarbonate Alkalinity, $CaCO_3$	102	mg/l
Carbonates, $CaCO_3$	0	mg/l
Bicarbonates, HCO_3	124	mg/l
Hydroxides, as OH	0	mg/l
Carbon Dioxide, CO_2	4	mg/l
Fluoride, F	0.13	mg/l
pHs	7.7	units
Stability Index	7.7	units
Specific Conductance, umhos	309	umhos
Hydrogen Sulfide, H_2S (F-F)	0.27	mg/l
Nitrate Nitrogen, NO_3-N	<0.03	mg/l
Total Hardness, $CaCO_3$	163	mg/l
Magnesium Hardness, $CaCO_3$	36.9	mg/l
Calcium Hardness, $CaCO_3$	126	mg/l
Calcium, Ca	50.5	mg/l
Magnesium, Mg	8.96	mg/l

MISCELLANOUS	ENTRY TO DISTRIBUTION	UNITS
Corrosivity	-0.1	units
Sodium, Na	3.5	mg/l
Turbidity, NTU	<1.0	NTU

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	PINE RIDGE
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
Fluoride, F	1.0	0.13
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)

MCL = Maximum Contaminant Level.

ND = Not detected to the levels in parentheses.

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51902 (5234)

PURPOSE: To analyze the sample for Gross Alpha
PROCEDURE: EPA METHOD 900.0

RESULTS, pCi/l

DETERMINATION	STORET #	PINE RIDGE
Gross Alpha	#01501	3.8
Counting error	#01502	±2.7

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51902 (5234)
Page 5 of 6

QUALITY CONTROL DATA SHEET

DUPLICATES:

PARAMETER	% DIFFERENCE	DATE	ANALYST
Arsenic	4.0	04-05-88	C.G.
Barium	<1.0	04-06-88	C.G.
Cadmium	8.2	04-05-88	A.H.
Chromium	2.8	03-30-88	A.H.
Lead	3.9	04-04-88	A.H.
Mercury	3.5	04-08-88	J.H.
Selenium	3.2	04-05-88	C.G.
Silver	1.9	03-29-88	A.H.
Calcium	1.1	04-07-88	C.G.
Magnesium	1.1	04-07-88	C.G.
Iron	<1.0	04-04-88	C.G.
Manganese	<1.0	04-06-88	C.G.
Copper	<1.0	04-04-88	J.H.
Zinc	<1.0	04-06-88	J.H.
Chloride	<1.0	03-30-88	J.B.
Color	<1.0	04-02-88	P.S.
MBAS	<1.0	04-05-88	M.S.
Sulfate	4.1	04-06-88	J.B.
TDS	1.6	03-24-88	J.B.
pH	1.4	03-25-88	B.D.
Odor	<1.0	04-06-88	B.D.
Total Alkalinity	1.6	03-25-88	B.D.
Fluoride	1.1	03-24-88	J.B.
Hydrogen Sulfide	<1.0	03-29-88	B.D.
Nitrates	3.6	04-01-88	B.D.
Sodium	<1.0	04-07-88	M.S.
Turbidity	2.8	03-31-88	B.D.
Specific Conductance	<1.0	03-31-88	J.B.
Lindane	2.2	04-04-88	C.O.
Endrin	5.2	04-04-88	C.O.
Methoxychlor	4.1	04-04-88	C.O.
2,4-D	11	04-01-88	C.O.
2,4,5-TP	6.7	04-01-88	C.O.
Gross Alpha	11	03-29-88	J.B.

Southern States Utilities
Attn: Aaron Perlowich

Report #: 51902 (5234)

QUALITY CONTROL DATA SHEET

SPIKES:

PARAMETER	% RECOVERY	DATE	ANALYST
Arsenic	102	04-05-88	C.G.
Barium	102	04-06-88	C.G.
Cadmium	98	04-05-88	A.H.
Chromium	104	03-30-88	A.H.
Lead	99	04-04-88	A.H.
Mercury	100	04-08-88	J.H.
Selenium	96	04-05-88	C.G.
Silver	99	03-29-88	A.H.
Calcium	100	04-07-88	C.G.
Magnesium	99	04-07-88	C.G.
Iron	99	04-04-88	C.G.
Manganese	103	04-06-88	C.G.
Copper	96	04-04-88	J.H.
Zinc	101	04-06-88	J.H.
Chloride	105/105	03-30-88	J.B.
Sulfate	92/96	04-06-88	J.B.
MBAS	97	04-05-88	M.S.
TDS	97/96	03-24-88	J.B.
Total Alkalinity	99	03-25-88	B.D.
Fluoride	101/102	03-24-88	J.B.
Hydrogen Sulfide	111	03-29-88	B.D.
Nitrates	93/97	04-01-88	B.D.
Sodium	103	04-07-88	M.S.
Specific Conductance	97/98	03-31-88	J.B.
Lindane	92	04-04-88	C.O.
Endrin	112	04-04-88	C.O.
Methoxychlor	121	04-04-88	C.O.
2,4-D	100	04-01-88	C.O.
2,4,5-TP	101	04-01-88	C.O.
Gross Alpha	129	03-29-88	J.B.
Gross Alpha	114	03-29-88	J.B.

HRS

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

DEC 3 3 36 PM '91

12/10

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Pineridge SYSTEM I.D. NO: 3490772 SYSTEM PHONE #: Unne

ADDRESS: c/o Lucy Colorplace COUNTY: Orange DER DISTRICT: 03

COLLECTOR: Bill T COLLECTOR PHONE #: Unne

SAMPLE SITE (Locality or Subdivision): Pineridge

DATE AND TIME COLLECTED: 12/9 11:30

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 (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 1	—	7.3	052449		A		
2	well 2	—	7.3	052450		A		
3	3517 Basswood	1.0	7.3	052451		A		
4	3220 Pineridge Cir	0.8	7.3	[illegible]		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 884, Jan 91 (Obsolete previous editions which may not be used) [Stock Number: 8740-000-0883-8]

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

SSU Services
1000 Colorplace
Apopka, Fl 32703

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

REVIEWING OFFICIAL: [signature]

TITLE: DEP

Pine Ridge Utilities - 9002

Citrus County (UFU)

Water

- 1992 FPSC Filing -

Pineridge Utilities

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	1/91
	3/91
	7/91
	10/91
Turbidity	2/90
Microbiological	12/91
Radionuclide	2/90
Secondary Contaminants	2/90
Unregulated Contaminants	1/91

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814 • (407) 898-6645

REPORT OF ANALYSIS

Citrus Springs Utilities
9840 North Citrus Spr. Blvd.
Citrus Springs, Fl 32630

Attn: Bill Yocum

Work Order # : 90-02-157
Date Received: 02/14/90
Date Reported: 03/03/90
OLI Contact: E_HOBBS

Work ID: 6091399 Dist. #25 Pine Ridge
Total Samples: 3

Sampling information is based on data supplied by Client

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Pine Ridge Dist. #24	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
	DERFLD 17-550 Field Data
	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 02/14/90 at 1130 hours
Read date 02/15/90 at 1130 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: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-157

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
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 2/16/90
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: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME DER 17-550 Req. Pest 608s

SAMPLE # 016
MATRIX WATER
TEST CODE 608R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90[illegible]157

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME DER 17-550 Reg. Herb 615

SAMPLE # 014
MATRIX WATER
TEST CODE 615R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-157

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME 17-550 Total Coliform Bact

SAMPLE# 01A
MATRIX WATER
TEST CODE DEMO1

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: 02/14/90
Date Read : 02/15/90

LANGO LABORATORIES, INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
COLLECTED not specified
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/15/90
DATE RUN 2/21/90
DILUTION FACTOR 1
% MOISTURE 100

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
9083	Dioctylphthalate	10	U	10
2062	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

SECTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

1 ; NOTEST

Citrus Springs Utilities
Attn: Bill Yocum

Report No: 90-02-157
Page No: 37

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Turbidity	4	N/A	02/16/90	DB
Odor	<1	N/A	02/16/90	DB
Color	<1	N/A	02/16/90	DB
pH	<1	N/A	02/16/90	DB
Total Alkalinity	1	78	02/16/90	DB
Nitrogen, Nitrate	<1	98	02/19/90	DB
Fluoride	7	113	02/19/90	SRE
Chloride	<1	99/99	02/19/90	DA
Sulfate	3	97	02/20/90	DA
TDS	1	93/92	02/21/90	DA
Silver	8	100	02/16/90	CJF
Arsenic	6	98	02/17/90	CJF
Mercury	2	99	02/15/90	DH
Barium	<1	103	02/21/90	BB
Cadmium	<1	102	02/21/90	BB
Sodium	2	100	02/21/90	BB
Iron	<1	109	02/21/90	BB
Manganese	<1	110	02/21/90	BB
Zinc	<1	105	02/21/90	BB
Calcium	<1	91	02/21/90	BB
Lead	<1	106	02/21/90	CFG
Chromium	<1	94	02/22/90	CJF
Selenium	<1	92	02/22/90	CFG
Copper	3	102	02/23/90	CJF
Gross Alpha	0.0	9.1	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 : 02-26-1990

LAB SAMPLE # : 9002187-001A
ANALYSIS DATE : 02/20/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	72	72	79	79	9
HEPTACHLOR	100	0	87	87	84	84	4
ALDRIN	100	0	96	96	101	101	5
DIELDRIN	100	0	112	112	104	104	7
ENDRIN	100	0	94	94	98	98	4
4,4-DDT	100	0	62	62	76	76	20

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 : 02-25-1990

LAB SAMPLE # : 9002156-1
ANALYSIS DATE : 2/24/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
phenol	200	0	69	35	73	37	6
2-chlorophenol	200	0	175	88	166	83	5
4-chloro-3-methylphenol	200	0	126	63	126	63	0
4-nitrophenol	200	0	172	86	164	82	5
pentachlorophenol	200	0	249	125 *	272	136 *	9
1,4-dichlorobenzene	100	0	76	76	81	81	6
n-nitroso-di-n-propylamine	100	0	106	106	115	115	8
1,2,4-trichlorobenzene	100	0	94	94	99	99 *	5
acenaphthene	100	0	88	88	91	91	3
2,4-dinitrotoluene	100	0	112	112 *	117	117 *	4
pyrene	100	0	114	114	127	127	11

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

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-21-1990

LAB SAMPLE N : [illegible]
ANALYSIS DATE : [illegible]

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
diazinon	100	0	65	65	56	56	15

COMMENTS : * = parameter outside QC limits.

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
diazinon	63	140	18	50	172	22

ORLANDO LABORATORIES, INC.

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-21-1990

LAB SAMPLE # : [illegible]
ANALYSIS DATE : 02/20/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
DALAPON	100	0	168	168	155	155	8
2,4,5-TP (SILVEX)	100	0	131	131	135	135	3
PICLORAM	100	0	138	138	135	135	2

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/MS VOLATILE ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-18-1990

LAB SAMPLE # : 9002187-3
ANALYSIS DATE : 2/16/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
1,1-dichloroethene	50	0	59	118	65	130	10
trichloroethene	50	0	52	104	47	94	10
benzene	50	0	56	112	55	110	2
toluene	50	0	51	102	55	110	8
chlorobenzene	50	0	47	94	49	98	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 : 02-14-1990

LAB SAMPLE # : 9002149-01A
ANALYSIS DATE : 02/14/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ALDICARB	100	0	93	93	94	94	1

COMMENTS :

MATRIX SPIKE QUALITY CONTROL LIMITS

	WATER			SOIL		
	LOWER	UPPER	RPD	LOWER	UPPER	RPD
ALDICARB	77	127	20	72	132	20

ORLANDO LABORATORIES INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 02-15-1990

LAB SAMPLE # : 9002161-01A
ANALYSIS DATE : 02/15/90

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
ETHYLENE DIBROMIDE	100	0	70	70	63	63	11

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

LANDO LABORATORIES,INC.
ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-157

MPLE ID Pine Ridge Dist. #24
LLECTED 02/13/90
ST NAME 17-550 "EDB" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 504R

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/14/90
DATE RUN 02/15/90
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

SAMPLE ID Pine Ridge Dist. #24
COLLECTED 02/13/90
TEST NAME 17-550 "DBCP" Analysis

SAMPLE# 01A
MATRIX WATER
TEST CODE 5041

DATE EXTRACTED 02/14/90
DATE RUN 02/15/90
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

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

:LANDO LABORATORIES,INC.
:ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-157

:PLE ID Pine Ridge Dist. #24
:. OLLECTED 02/13/90
:ST 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 2/16/90
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

LANDO LABORATORIES, INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Non Urban # 90-[illegible]

[illegible] ID Pine Ridge Dist. #24
COLLECTED 02/13/90
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 2/16/90
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

:LANDO LABORATORIES,INC.
:ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-0[illegible]-137
Continued From Above

E ID Pine Ridge Dist. #24
COLLECTED 02/13/90
EST NAME OER 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

RLANDO LABORATORIES, INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90[illegible]167

SAMPLE ID Pine Ridge Dist. #24
COLLECTED 02/13/90
TEST NAME DER 17-550 Unreg Pest 531s

SAMPLE# 01A
MATRIX WATER
TEST CODE 5310

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result		Det. Lt.
2036	Oxymyl (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

LANDO LABORATORIES, INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-02-157

SAMPLE ID Pine Ridge Dist. #24
COLLECTED 02/13/90
TEST NAME OER 17-550 Unreg Pest 608s

SAMPLE # 010
MATRIX WATER
TEST CODE 6080

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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

:LANDO LABORATORIES, INC.
:ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 30[illegible]

:MP' E ID Pine Ridge Dist. #24
A: OLLECTED 02/13/90
:ST NAME DER 17-550 Unreg Pest 515s

SAMPLE# 010
MATRIX WATER
TEST CODE 515U

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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

RLANDO LABORATORIES,INC.
eceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-10-157

SAMPLE ID Pine Ridge Dist. #24
A COLLECTED 02/13/90
EST NAME DER 17-550 Unreg Pest 622s

SAMPLE# 01A
MATRIX WATER
TEST CODE 6220

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHW

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
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

RLANDO LABORATORIES, INC.
eceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME DER 17-550 Unreg BNAs/Pest

SAMPLE # 010
MATRIX WATER
TEST CODE 8250

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED 2/16/90
DATE RUN 2/24/90
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

:LANDO LABORATORIES, INC.
:ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
) OLLECTED not specified
ES1 NAME 17-550 Trihalomethanes

SAMPLE# [illegible]
MATRIX [illegible]
TEST CODE 501K

SAMPLE TYPE WATER
UNITS ug/l
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/16/90
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

_ANDO LABORATORIES,INC.
ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

MPLE ID Method Blank
T OLLECTED not specified
S1 NAME 17-550 "EDB" Analysis

SAMPLE#
MATRIX
TEST CODE

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED 02/14/90
DATE RUN 02/15/90
DILUTION FACTOR 1
% MOISTURE No

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

LANDO LABORATORIES,INC.
ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

MPLE ID Method Blank
.OLLECTED not specified
ST NAME 17-550 "DBCP" Analysis

SAMPLE TYPE WATER
UNITS UG/L
ANALYST JAB

DATE EXTRACTED 02/14/90
DATE RUN 02/15/90
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

LANDO LABORATORIES, INC.
ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible] 157

MPLE ID Method Blank
T OLLECTED not specified
ST NAME DER 17-550 Regulated VOA's

SAMPLE # [illegible]
MATRIX [illegible]
TEST CODE [illegible]

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/16/90
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

LANDO LABORATORIES, INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
COLLECTED not specified
TEST NAME DER 17-550 Unregulated VOA

SAMPLE #
MATRIX
TEST CODE

SAMPLE TYPE WATER
UNITS UG/L
ANALYST EJP

DATE EXTRACTED NA
DATE RUN 2/16/90
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

RLANDO LABORATORIES,INC.
eceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

MPLE ID Method Blank
COLLECTED not specified
EST NAME DER 17-550 Unregulated VOA

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: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
COLLECTED not specified
TEST NAME OER 17-550 Unreg Pest 531s

SAMPLE #
MATRIX
TEST CODE 5311

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JAB

DATE EXTRACTED NA
DATE RUN 02/14/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-531
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PWS035)

Parameter ID	Name	Analysis Result		Det. Lt.
2036	Oxymyl (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

RLANDO LABORATORIES,INC.
eceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

AMPLE ID Method Blank
/ COLLECTED not specified
ES! NAME DER 17-550 Req. Pest 608s

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

METHOD EPA-608
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(a)
(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

ANDO LABORATORIES,INC.
eived: 02/14/00

REPORT OF ANALYSIS
Results by Sample

[illegible]

[illegible]

[illegible]

[illegible] ID Method Blank
[illegible]LECTED not specified
[illegible]T NAME DER 17-550 Unreg Pest GC/Ls

SAMPLE TYPE WATER
UNITS ug/L
ANALYST RAB

DATE EXTRACTED 02/14/00
DATE RUN 02/20/00
DILUTION FACTOR 1
% MOISTURE [illegible]0

METHOD EPA-608
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW3035)

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)
(PW3036)

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

ANDO LABORATORIES,INC.
eived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

MPLE ID Method Blank
COLLECTED not specified
ST NAME UCR 17-550 Reg. Herb 615

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

DATE EXTRACTED 02/[illegible]
DATE RUN 02/[illegible]
DILUTION FACTOR 1
% MOISTURE ---

METHOD EPA-615
ORGANIC CHEMICAL ANALYSIS
17-550.310(2)(b)
(PH3029)

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

PLANDO LABORATORIES, INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Method Blank
COLLECTED not specified
TEST NAME DER 17-550 Unreg Pest 515s

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
DILUTION FACTOR 1
% MOISTURE NA

SAMPLE TYPE WATER
UNITS ug/l
ANALYST RAB

METHOD EPA-515.1
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PW3035)

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

ANDU LABORATORIES, INC.
eived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

PLE ID Method Blank
LLECTED not specified
ST NAME OER 17-550 Unreg Pest OCPs

SAMPLE TYPE WATER
UNITS ug/l
ANALYST JHN

DATE EXTRACTED 02/19/90
DATE RUN 02/20/90
DILUTION FACTOR 1
% MOISTURE NA

METHOD EPA-622
UNREGULATED ORGANIC PESTICIDE ANALYSIS
17-550.410(1)
(PH5035)

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

SLANDD LABORATORIES,INC. REPORT OF ANALYSIS
eceived: 02/14/90 Results by Sample

AMPLE ID Pine Ridge Dist. #24
4 COLLECTED 02/13/90
EST NAME 17-550 Field Data

SAMPLE# 010
MATRIX WATER
TEST CODE DERFLD

SECONDARY CHEMICAL ANALYSIS FIELD DATA
17-550.320
(PWS031)

Parameter ID	Name	Analysis Result	Method	Det.Lt.
1924	Field pH (units)	7.4	EPA150.1	N/A
1926	Field Conductivity (umhos)	NA	EPA120.1	1 umhos
1996	Field Temp. (C)	NA	EPA170.1	N/A
9996	Field DO	NA	EPA360.1	.2mg/l

Note: Date Analyzed is same as date collected.

:LANDO LABORATORIES,INC.
:ceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible] 157

:MPLE ID Pine Ridge Dist. #24
: :OLLECTED 02/13/90
:S: NAME 17-550 Primary WetChem

SAMPLE# 010
MATRIX WATER
TEST CODE DEM10

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	<0.10	EPA340.2	0.1	02/19/90
1040	Nitrate (as N)	0.16	EPA353.2	0.03	02/19/90

RLANDO LABORATORIES,INC.
eceived: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible] 57

AMPLE ID Pine Ridge Dist. #24
COLLECTED 02/13/90
EST NAME DER 17-5 Secondary Metals

SAMPLE# 01A
MATRIX WATER
TEST CODE PCR5031

(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	02/23/90
1028	Iron	<0.100	EPA200.7	0.1	02/21/90
1032	Manganese	<0.050	EPA200.7	0.050	02/21/90
1035	Zinc	<0.050	EPA200.7	0.050	02/21/90
1919	Calcium Hardness	76.4	EPA200.7	2.5	02/21/90

ORLANDO LABORATORIES,INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME DER 17-5 Secondary Wet Chm

SAMPLE# 01A
MATRIX WATER
TEST CODE DER17W

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	5.0	SM 407	1.0	02/19/90
1025	Fluoride	<0.10	EPA340.2	0.1	02/19/90
1055	Sulfate	7.4	EPA375.4	1.0	02/20/90
1901	Carbon Dioxide	1.6	SM 406 C	1.0	02/22/90
1905	Color	<5.0	SM 204 A	5PCU	02/16/90
1920	Odor Threshold	1.0	EPA140.1	1TON	02/16/90
1927	Total Alkalinity	120	EPA310.1	2.0	02/16/90
1930	Total Dissolved Solids	100	EPA160.1	1.0	02/21/90
1931	Phenolphthalein Alk	<2.0	EPA310.1	2.0	02/16/90
1997	Langelier Index pHs	7.8	CALC.	N/A	02/22/90
1998	Saturation Index	0.3	CALC.	N/A	02/22/90
2909	Foaming Agents	<0.1	EPA425.1	0.1	02/16/90

VERIFIED BY SRK

ORLANDO LABORATORIES,INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # [illegible]

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME 17-550 Primary Metals Only

SAMPLE# 010
MATRIX WATER
TEST CODE ORPRI1

(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	02/17/90
1010	Barium	<0.100	EPA200.7	0.100	02/21/90
1015	Cadmium	<0.010	EPA213.2	0.005	02/21/90
1020	Chromium	<0.010	EPA218.2	0.010	02/22/90
1030	Lead	<0.010	EPA239.2	0.010	02/21/90
1035	Mercury	<0.0005	EPA245.1	0.0005	02/15/90
1045	Selenium	<0.005	EPA270.2	0.005	02/22/90
1050	Silver	<0.010	EPA272.2	0.010	02/16/90
1052	Sodium	4.21	EPA200.7	0.001	02/21/90

ORLANDO LABORATORIES,INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

Work Order # 90-05-157

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME Gross Alpha (water)17-550

SAMPLE# 010
MATRIX WATER
TEST CODE DER 04

VERIFIED JAB

RADIOLOGICAL ANALYSIS
17-550.310(5)
(PHS033)

Parameter ID	Name	Analysis Result(pCi/l)	Method	Analysis Error	Analysis Date
4002	Gross alpha incl radon & uranium	0.7	EPA900.0	1.0	02/27/90

ORLANDO LABORATORIES,INC.
Received: 02/14/90

REPORT OF ANALYSIS
Results by Sample

SAMPLE ID Pine Ridge Dist. #24
DATE COLLECTED 02/13/90
TEST NAME 17-550 Turbidity Analysis

SAMPLE# 010
MATRIX WATER
TEST CODE DC5181

TURBIDITY ANALYSIS
17-550.310(3)
(PWS026)

Parameter ID	Name	Analysis Result(NTU)	Method	Analysis Date
0100	Turbidity	<1.0	EPA180.1	02/16/90

SSU SERVICES

To Clare

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

March 5, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa. FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the first quarterly tests taken for volatile organics, unregulated organic purgeables, unregulated organic pesticide, unregulated base neutral extractable and unregulated acid extractable per DER Drinking Water Standards 17550 for the following water plants in Citrus County. Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Golden Terrace - composite, Oak Forest, Rosemont and Rolling Green - composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.B. Williams, General Manager
Pine Ridge & SSU County Plants

REW:sr

Attachments

cc: Charles L. Sweat
Chris Arcand
Frank Sanderson
File

FLOWERS

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprg.
PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PR-2&3
Date Received: Jan24 1991 Lab Number : 16100

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16100
Ethylene dibromide	mg/L	0.000005	91.6	5.28	<0.000005
Para-dichlorobenzene	mg/L	0.001	104	.552	<0.001
Vinyl chloride	mg/L	0.001	88.9	1.25	<0.001
1,1-dichloroethene	mg/L	0.001	88.9	1.25	<0.001
1,2-dichloroethane	mg/L	0.001	102	5.82	<0.001
1,1,1-trichloroethan	mg/L	0.001	95.1	.853	<0.001
Carbon tetrachloride	mg/L	0.001	92.4	.331	<0.001
Trichloroethene	mg/L	0.001	99.5	.655	<0.001
Tetrachloroethene	mg/L	0.001	96.9	.330	<0.001
Benzene	mg/L	0.001	95.1	3.71	<0.001
Chloromethane	mg/L	0.001	112	1.44	<0.001
Dichlorodifluorometh	mg/L	0.001	92.4	.331	<0.001
Bromomethane	mg/L	0.001	112	1.44	<0.001
Chloroethane	mg/L	0.001	88.9	1.25	<0.001
Trichlorofluorometha	mg/L	0.001	92.4	.331	<0.001
trans-1,3,-dichlorop	mg/L	0.001	85.9	1.45	<0.001
cis-1,3-dichloroprop	mg/L	0.001	100	8.83	<0.001
Methyl-tert-butyleth	mg/L	0.001	115	11.5	<0.001
cis-1,2-dichloroethe	mg/L	0.001	100	8.83	<0.001
Dibromomethane	mg/L	0.001	112	1.44	<0.001
1,1-dichloropropene	mg/L	0.001	88.9	1.25	<0.001
1,3-dichloropropane	mg/L	0.001	85.9	1.45	<0.001
1,2,3-trichloropropa	mg/L	0.001	107	3.86	<0.001
2,2-dichloropropane	mg/L	0.001	88.9	1.25	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	107	3.86	<0.001
Chloroform	mg/L	0.001	96.3	.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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprg.
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PR-2&3
Date Received: Jan24 1991 Lab Number : 16100

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16100
Dinoseb	mg/L	0.00001	106	3.28	<0.00001
Aldicarb sulfoxide	mg/L	0.002	95.0	2.23	<0.002
Aldicarb sulfone	mg/L	0.002	100.	3.16	<0.002
Metolachlor	mg/L	0.0005	108	4.60	<0.0005
Carbofuran	mg/L	0.001	96.0	1.06	<0.001
Aldicarb	mg/L	0.002	97.7	2.04	<0.002
Atrazine	mg/L	0.002	101	0.65	<0.002
Alachlor (Lasso)	mg/L	0.0002	107	3.91	<0.0002
Heptachlor	mg/L	0.000005	107	3.99	<0.000005
Aldrin	mg/L	0.00007	109	5.35	<0.00007
Dieldrin	mg/L	0.00001	107	4.26	<0.00001
Dicamba	mg/L	0.00001	108	4.64	<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	91.4	5.24	<0.001
Dioxin	mg/L	0.00001	97.7	3.84	<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	93.5	3.97	<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.
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:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprg.
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PR-2&3
Date Received: Jan24 1991 Lab Number : 16100

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16100
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	99.7	3.44	<0.0001
PCB-1254	mg/L	0.0001	106	3.18	<0.0001
PCB-1260	mg/L	0.0001	94.0	3.69	<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.
461 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: SIT PINE RIDGE - 6091399
Public Water System Name PINE RIDGE
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 16100
Sample Location (be specific): PINERIDGE WELL Q+3
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: LARRY GREENBURG TRAINEE
904 - 489-2452

ANALYSIS INFORMATION
Extraction Date 1/31/91
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 2/15/91

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	16100	.00002	<.000005	EPA504.1	.000005	2/7/91
2969	Para-dichlorobenzene	16100	.075	<0.001	EPA502.2	0.001	1/31/91
2976	Vinyl chloride	16100	0.001	<0.001	EPA502.2	0.001	1/31/91
2977	1,1-dichloroethene	16100	0.007	<0.001	EPA502.2	0.001	1/31/91
2980	1,2-dichloroethane	16100	0.003	<0.001	EPA502.2	0.001	1/31/91
2981	1,1,1-trichloroethane	16100	0.2	<0.001	EPA502.2	0.001	1/31/91
2982	Carbon tetrachloride	16100	0.003	<0.001	EPA502.2	0.001	1/31/91
2984	Trichloroethene	16100	0.003	<0.001	EPA502.2	0.001	1/31/91
2987	Tetrachloroethene	16100	0.003	<0.001	EPA502.2	0.001	1/31/91
2990	Benzene	16100	0.001	<0.001	EPA502.2	0.001	1/31/91

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	16100		<0.001	EPA502.2	0.001	1/31/91
2212	Dichlorodifluoromethan	16100		<0.001	EPA502.2	0.001	1/31/91
2214	Bromomethane	16100		<0.001	EPA502.2	0.001	1/31/91
2216	Chloroethane	16100		<0.001	EPA502.2	0.001	1/31/91
2218	Trichlorofluoromethane	16100		<0.001	EPA502.2	0.001	1/31/91
2224	trans-1,3,-dichloroprop	16100		<0.001	EPA502.2	0.001	1/31/91
2228	cis-1,3-dichloropropene	16100		<0.001	EPA502.2	0.001	1/31/91
2251	Methyl-tert-butylether	16100		<0.001	EPA502.2	0.001	1/31/91
2380	cis-1,2-dichloroethene	16100		<0.001	EPA502.2	0.001	1/31/91
2408	Dibromomethane	16100		<0.001	EPA502.2	0.001	1/31/91
2410	1,1-dichloropropene	16100		<0.001	EPA502.2	0.001	1/31/91
2412	1,3-dichloropropane	16100		<0.001	EPA502.2	0.001	1/31/91
2414	1,2,3-trichloropropane	16100		<0.001	EPA502.2	0.001	1/31/91
2416	2,2-dichloropropane	16100		<0.001	EPA502.2	0.001	1/31/91
2931	1,2-dibromo-3-chloropr	16100		<0.001	EPA502.2	0.001	1/31/91
2941	Chloroform	16100		<0.001	EPA502.2	0.001	1/31/91
2942	Bromoform	16100		<0.001	EPA502.2	0.001	1/31/91
2943	Bromodichloromethane	16100		<0.001	EPA502.2	0.001	1/31/91
2944	Dibromochloromethane	16100		<0.001	EPA502.2	0.001	1/31/91
2962	p-xylene	16100		<0.001	EPA502.2	0.001	1/31/91
2964	Methylene chloride	16100		0.00357	EPA502.2	0.001	1/31/91
2965	o-chlorotoluene	16100		<0.001	EPA502.2	0.001	1/31/91
2966	p-chlorotoluene	16100		<0.001	EPA502.2	0.001	1/31/91
2967	m-dichlorobenzene	16100		<0.001	EPA502.2	0.001	1/31/91
2968	o-dichlorobenzene	16100		<0.001	EPA502.2	0.001	1/31/91
2978	1,1-dichloroethane	16100		<0.001	EPA502.2	0.001	1/31/91
2979	trans-1,2-dichloroethyl	16100		<0.001	EPA502.2	0.001	1/31/91
2983	1,2-dichloropropane	16100		<0.001	EPA502.2	0.001	1/31/91
2985	1,1,2-trichloroethane	16100		<0.001	EPA502.2	0.001	1/31/91
2986	1,1,1,2-tetrachloroetha	16100		<0.001	EPA502.2	0.001	1/31/91
2988	1,1,2,2-tetrachloroetha	16100		<0.001	EPA502.2	0.001	1/31/91
2989	Chlorobenzene	16100		<0.001	EPA502.2	0.001	1/31/91

2991	Toluene	16100	<0.001	EPA502.2	0.001	1/31/91
2992	Ethylbenzene	16100	<0.001	EPA502.2	0.001	1/31/91
2993	Bromobenzene	16100	<0.001	EPA502.2	0.001	1/31/91
2995	m-xylene	16100	<0.001	EPA502.2	0.001	1/31/91
2996	Styrene	16100	<0.001	EPA502.2	0.001	1/31/91
2997	o-xylene	16100	<0.001	EPA502.2	0.001	1/31/91

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	16100		<.000001	EPA515	.000001	2/14/91
2036	Oxamyl (Vydate)	16100		<0.002	EPA531	0.002	2/14/91
2037	Simazine	16100		<0.007	EPA505	0.007	2/14/91
2040	Picloram	16100		<0.00007	EPA515	0.00007	2/14/91
2041	Dinoseb	16100		<0.00001	EPA515	0.00001	2/14/91
2043	Aldicarb sulfoxide	16100		<0.002	EPA531	0.002	2/14/91
2044	Aldicarb sulfone	16100		<0.002	EPA531	0.002	2/14/91
2045	Metolachlor	16100		<0.0005	EPA505	0.0005	2/14/91
2046	Carbofuran	16100		<0.001	EPA531	0.001	2/14/91
2047	Aldicarb	16100		<0.002	EPA531	0.002	2/14/91
2050	Atrazine	16100		<0.002	EPA505	0.002	2/14/91
2051	Alachlor (Lasso)	16100		<0.0002	EPA505	0.0002	2/14/91
2065	Heptachlor	16100		<.000005	EPA508	.000005	2/14/91
2356	Aldrin	16100		<0.00007	EPA508	0.00007	2/14/91
2364	Dieldrin	16100		<0.00001	EPA508	0.00001	2/14/91
2440	Dicamba	16100		<0.00001	EPA515	0.00001	2/14/91
2959	Chlordane	16100		<0.00001	EPA508	0.00001	2/14/91
9114	Pentachlorophenol	16100		<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	16100		<0.001	EPA508	0.001	2/12/91
2063	Dioxin	16100		<0.00001	EPA613	0.00001	2/12/91
2262	Isophorone	16100		<0.001	EPA609	0.001	2/12/91
2270	2,4-dinitrotoluene	16100		<0.001	EPA609	0.001	2/12/91
2282	Dimethylphthalate	16100		<0.001	EPA606	0.001	2/12/91
2284	Diethylphthalate	16100		<0.001	EPA606	0.001	2/12/91
2290	Di-n-butylphthalate	16100		<0.001	EPA606	0.001	2/12/91
2294	Butyl benzyl phthalate	16100		<0.001	EPA606	0.001	2/12/91
2298	Bis(2-ethylhexyl)phthal	16100		<0.001	EPA606	0.001	2/12/91
2378	1,2,4-trichlorobenzene	16100		<0.001	EPA612	0.001	2/12/91
2388	PCB-1016	16100		<0.0001	EPA505	0.0001	2/13/91
2390	PCB-1221	16100		<0.0001	EPA505	0.0001	2/13/91
2392	PCB-1232	16100		<0.0001	EPA505	0.0001	2/13/91
2394	PCB-1242	16100		<0.0001	EPA505	0.0001	2/13/91
2396	PCB-1248	16100		<0.0001	EPA505	0.0001	2/13/91
2398	PCB-1254	16100		<0.0001	EPA505	0.0001	2/13/91

2400	PCB-1260	16100		<0.0001	EPA505	0.0001	2/13/91
9089	Dioctylphthalate	16100		<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	16100		<0.001	EPA604	0.001	2/12/91
9112	2-methyl-4,6-dinitophe	16100		<0.001	EPA604	0.001	2/12/91
9115	Phenol	16100		<0.001	EPA604	0.001	2/12/91
9116	2,4,6-trichlorophenol	16100		<0.001	EPA604	0.001	2/12/91

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# [illegible]
FDHRS Lab# 86191
NOCSHOR Lab# 204
SCDHEC Lab# 96012

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

(1) Client: Citrus Springs Util.
(2) Address: 9840 W. Citrus Springs Blvd. Citrus Springs, FL
(3) Phone: (904) 489-2452
(4) Public Drinking Water ID #: Pine Ridge Well #2A
(5) Public Water System Name: Pine Ridge
(6) Project: Citrus County
(6) Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community
(7) PO#: B19018

(9)		Preservative: HNO3	ZnOAc+NaOH	Plastic Containers: 60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	Glass Containers: 40ml	250ml	500ml	1L	2L	4L
	1X														X
	SU									X					

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

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 1 DATE 23 YEAR 91
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution
(X) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: L Greenberg TITLE: Mr PHONE: 904-489-2452
SAMPLER'S SIGNATURE: [signature]
NOTES:

Composite Wells 2&3 - Pine Ridge

(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
16100	#1 Pine Ridge Well # 2 - Faller Tap
	#2 " " " 2 - Vial
	#3 " " " 2 - Vial
	#4 " " " 2 - Vial
	#5 Pine Ridge Well 2 - Faller Tap
	#6 " " Well 2 - Vial
	#7 " " Well 2 - Vial
	#8 " " Well 2 - Vial
	#9
	#10

		Date	Time
(16) Collectors Signature:	[signature]	1-23-91	10:00 am
(17) Transporters Signature:	[signature]		10:00 AM
(19) Lab Acceptance By:			TIME

OVER FOR INSTRUCTIONS FOR COMPLETION

PINERIDGE WELL #3

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Spgs.Util.
9940 N.CitrusSpgBlv
CitrusSpg,FL 32620

Date Reported: Apr 9 1991
PO Number: B91018
PO Number Citrus Spgs.
FDHRS Lab# : 82139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PINERIDGE 2&3
Date Received: Mar29 1991 Lab Number : 16563

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%REC	%PRC	16563
Ethylene dibromide	mg/L	0.000005	82.8	12.3	<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

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: PINE RIDGE - 609 1399
Public Water System Name PINE RIDGE
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 16563
Sample Location (be specific): PINE RIDGE WELL 2 + 3
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: LARRY GOLDEN BURG TRAINEE
904 - 489 - 2452

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 4/8/91

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	16563	.00002	<.000005	EPA504.1	.000005	4/8/91
2969	Para-dichlorobenzene	16563	.075	<0.001	EPA502.2	0.001	3/30/91
2976	Vinyl chloride	16563	0.001	<0.001	EPA502.2	0.001	3/30/91
2977	1,1-dichloroethene	16563	0.007	<0.001	EPA502.2	0.001	3/30/91
2980	1,2-dichloroethane	16563	0.003	<0.001	EPA502.2	0.001	3/30/91
2981	1,1,1-trichloroethane	16563	0.2	<0.001	EPA502.2	0.001	3/30/91
2982	Carbon tetrachloride	16563	0.003	<0.001	EPA502.2	0.001	3/30/91
2984	Trichloroethene	16563	0.003	<0.001	EPA502.2	0.001	3/30/91
2987	Tetrachloroethene	16563	0.003	<0.001	EPA502.2	0.001	3/30/91
2990	Benzene	16563	0.001	<0.001	EPA502.2	0.001	3/30/91

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Springs
9840 N.CitrusSprgs.B
CitrusSprgs,FL 32630

Date Reported: Jul15 1991
PO Number: B9101B
PO Number Citrus Co-900
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PINE RIDGE
Date Received: Jul 2 1991 Lab Number : 17254

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17254
Ethylene dibromide	mg/L	0.000005	107	7.00	<0.000005
Para-dichlorobenzene	mg/L	0.001	119	3.30	<0.001
Vinyl chloride	mg/L	0.001	93.7	.278	<0.001
1,1-dichloroethene	mg/L	0.001	92.7	.278	<0.001
1,2-dichloroethane	mg/L	0.001	97.3	1.54	<0.001
1,1,1-trichloroethan	mg/L	0.001	94.7	.774	<0.001
Carbon tetrachloride	mg/L	0.001	94.5	.112	<0.001
Trichloroethene	mg/L	0.001	99.0	.225	<0.001
Tetrachloroethene	mg/L	0.001	99.8	1.71	<0.001
Benzene	mg/L	0.001	97.0	.380	<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) 260-0110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 4091399
Public Water System Name Pineridge
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 17254
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 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 7/12/91

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)
(PWS028)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	17254	.00002	<.000005	EPA504.1	.000005	7/12/91
2969	Para-dichlorobenzene	17254	.075	<0.001	EPA502.2	0.001	7/6/91
2976	Vinyl chloride	17254	0.001	<0.001	EPA502.2	0.001	7/6/91
2977	1,1-dichloroethene	17254	0.007	<0.001	EPA502.2	0.001	7/6/91
2980	1,2-dichloroethane	17254	0.003	<0.001	EPA502.2	0.001	7/6/91
2981	1,1,1-trichloroethane	17254	0.2	<0.001	EPA502.2	0.001	7/6/91
2982	Carbon tetrachloride	17254	0.003	<0.001	EPA502.2	0.001	7/6/91
2984	Trichloroethene	17254	0.003	<0.001	EPA502.2	0.001	7/6/91
2987	Tetrachloroethene	17254	0.003	<0.001	EPA502.2	0.001	7/6/91
2990	Benzene	17254	0.001	<0.001	EPA502.2	0.001	7/6/91

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: CITRUS SPRINGS
Address: 9540 N. CITRUS SPRINGS BLVD.
CITRUS SPRINGS, FL. 32630
Phone: 904-489-2752
Sampled By (PRINT): JOHN MACKENZIE
Sampler Signature: John MacKenzie Date Sampled: 7/1/91

FCL Client No:
FCL Project Manager: L. SEBECK
FCL Lab Coordinator: S. WELSH
Requested Due Date: ASAP

P.O. Number: #91018
Project Name / No: Citrus Co. 90000
Contact: R. B. Williams

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST
1	COMPOSIT of 1st Rolling Flow 1+2 RESERVOIR WELL	11:00	D.W.	12751						VOCs
2	OAK FOREST 1+2	7:00								
3	COMPOSIT POW 1-2-3	11:00		12752						
4	GOLDEN TERRACE 1+2									
5	COMPOSIT APACHE STREETS 1+2 CRYSTAL RIVER 1+2	8:00	GOSPIL	12753						
6	COMPOSIT PINE RIDGE 2+3	12:00		12754						

CARRIER	BAILERS	SHIP DATES: OUT / DATE	RETURNED / DATE
UPS		6/17/91	

SPECIAL INSTRUCTIONS
No Air in Vials

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FCL	6/17/91	11:52			

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

DAILY BUSINESS FORMS - (407) 677-7222 AC13 2.3B

0803

Pineridge

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
PO Box 217
Dunnellon,FL 32630

Date Reported: Oct15 1991
PO Number: B91018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 4
Date Received: Oct10 1991 Lab Number : 17960

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17960
Ethylene dibromide	mg/L	0.000005	107	1.55	<0.000005
Para-dichlorobenzene	mg/L	0.001	92.1	2.02	<0.001
Vinyl chloride	mg/L	0.001	109	2.55	<0.001
1,1-dichloroethene	mg/L	0.001	109	2.55	<0.001
1,2-dichloroethane	mg/L	0.001	108	4.12	<0.001
1,1,1-trichloroethan	mg/L	0.001	111	1.32	<0.001
Carbon tetrachloride	mg/L	0.001	109	.847	<0.001
Trichloroethene	mg/L	0.001	101	1.35	<0.001
Tetrachloroethene	mg/L	0.001	97.5	.548	<0.001
Benzene	mg/L	0.001	105	.244	<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: 6091399
Public Water System Name Pineridge
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 17960
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 10/14/91

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	17960	.00002	<.000005	EPA504.1	.000005	10/11/91
2969	Para-dichlorobenzene	17960	.075	<0.001	EPA502.2	0.001	10/11/91
2976	Vinyl chloride	17960	0.001	<0.001	EPA502.2	0.001	10/11/91
2977	1,1-dichloroethene	17960	0.007	<0.001	EPA502.2	0.001	10/11/91
2980	1,2-dichloroethane	17960	0.003	<0.001	EPA502.2	0.001	10/11/91
2981	1,1,1-trichloroethane	17960	0.2	<0.001	EPA502.2	0.001	10/11/91
2982	Carbon tetrachloride	17960	0.003	<0.001	EPA502.2	0.001	10/11/91
2984	Trichloroethene	17960	0.003	<0.001	EPA502.2	0.001	10/11/91
2987	Tetrachloroethene	17960	0.003	<0.001	EPA502.2	0.001	10/11/91
2990	Benzene	17960	0.001	<0.001	EPA502.2	0.001	10/11/91

Comments:

CHEMICA LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 85139
NCCEHNR Lab# 284
SCDHEC Lab# 99019

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

ATTN: Bob Williams

(1)Client	(2)Address	(3)Phone
Citrus Springs Util.	P.O. Box 217 Dunnellon, FL. 32630	(904) 245-1504

(4)Public Drinking Water ID #

(5)Public Water System Name: Citrus Co. Composits

(6)Project: # Citrus Co. Composits

(7)PO# 891018

(8)Public Water System Type
(V) 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.	(12)Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___
(16) 54									X						

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

(10)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

VOC's

(16)Laboratory Number	(11)Client Sample Identification
17957	#1 Composite of Rolling Green Wells 1+2 Oak Forest 1+2 Rosemont Well 1
17958	#2 Composite of Pow 1-2-3 Golden Terr. 1+2
17959	#3 Composite of Homosassa Shores 1+3 Crystal River #2
17960	#4 Composite Pine Ridge 2+3
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	John C Gmac Regn	10/8	4:00 PM
(14)Transporters Signature:			
(15)Lab Acceptance By:		10/10/91	10:10

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
Citrus County Health Unit
3356 Hwy 19 S.
Hernando, Fla 32442
Lab 7UH82349 Lisa Rankin
12/1/91 1:30P

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Pine Ridge (SSU) SYSTEM I.D. NO: 6091399 SYSTEM PHONE #: (904)-489-27
ADDRESS: SR 491 Pine Ridge COUNTY: Citrus DER DISTRICT: SW
COLLECTOR: Mike Baldwin COLLECTOR PHONE #: same
SAMPLE SITE (Locality or Subdivision): Pine Ridge 1:00 P.M.
DATE AND TIME COLLECTED: 12-4-91
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) (Check Box)
[X] Distribution [ ] TNTC or C
[X] 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-A	Well #2		7.8	26877		A		
2-A	Well #2 P.T.	0.8	7.9	26878		A		
3-A	Well #3		7.9	26879		A		
4-A	Well #3 P.T.	0.5	8.0	26880		A		
5-A	4980 Buttercup	0.6	7.8	26881		A		
6-A	4980 Lemon	0.5	7.7	26882		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
Remember to put time S.

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT
Citrus Springs Utilities
P.O. Box 217
Dunnellon Fla 32630

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

REVIEWING OFFICIAL: Brenda Ball
TITLE: EDI

HRS Form 888 (Obsolete previous editions which may be used) (Stock Number 1-000-0888-5)

Piney Woods - 553

Lake County (SSU)

Water

- 1992 FPSC Filing -

Piney 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	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



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

April 19, 1991

Ms. Marie Carrasquillo
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32807-3767

Re: Wedgewood PWS ID #3354701
Piney Woods PWS ID #3351021

Dear Ms. Carrasquillo,

Please find attached results for Pimary Organics, Primary Inorgancis, Secondarys, VOC's, Turbidity & Radiological Analysis for the above mentioned plants. Please enter this in your records.

Thank you for your cooperation.

Sincerely,

SSU Services

Donald B. Corder

Don Corder
Disivison Supervisor

DC/jlm

cc: Charles Sweat
Ralph Terrero
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Apr12 1991
PO Number: B91039
PO Number Piney Woods
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16539

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16539
Turbidity	NTU	0.05	100	.000	6.9
Arsenic	mg/L	0.0005	107	2.11	<0.0005
Barium	mg/L	0.01	101	.858	<0.01
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	0.0949
Lead	mg/L	0.001	104	5.91	0.001
Mercury	mg/L	0.0002	102	4.05	<0.0002
Nitrate(as N)	mg/L	0.01	91.5	2.45	0.0625
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	0.109
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	37.9
Chloride	mg/L	0.015	101	2.47	10.01
Carbonate_CaCO3	mg/L	0.1			<0.1
Hydroxide_CaCO3	mg/L	0.1			<0.1
Copper	mg/L	0.005	105	.413	0.014
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.

[redacted], Ph.D.
Technical Director

Page 1 of 1

William L. Flowers, Ph.D.
Johnnie A. 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: Apr12 1991
PO Number: B91039
PO Number Piney Woods
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WATER SAMPLE
Date Received: Mar26 1991 Lab Number : 16539

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16539
Iron	mg/L	0.01	101	.433	0.215
Magnesium	mg/L	0.01	108	.722	2.9
Manganese	mg/L	0.005	102	.630	0.136
Sulfate	mg/L	0.2	91.9	2.1	2.8
Zinc	mg/L	0.001	102	1.05	0.021
Carbon_Dioxide	mg/L	0.1			<0.1
Color	mg/L	5	-	.000	25
Total_Hardness	mg/L	0.1			<0.1
NCP_as_CaCO3	mg/L	0.1			<0.1
Ocon(TON)	TON	1	-	-	<1
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	100	1.00	7.62
Field Conductivity	umhos/c	0.01			-
Total Alkalinity	mg/L	0.1	99.4	.667	104
TDS	mg/L	2.5	95.3	3.77	171
Phenolphthalein Alk.	mg/L	0.1			-
Field Temp. (C)	oC	1			<1
Langelier Index	LSI	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			2.4

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.

Stephen B. Flowers, Ph.D.
Technical Director

Johnnie L. Flowers, Ph.D.
Johnnie B. 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: 3351021
Public Water System Name Piney 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) Analyzi 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: HRS~~82199~~ 82138

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 16539
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 4/1/91
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 4/12/91

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

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	16539	1	6.90	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	16539	0.05	<0.0005	EPA206.3	0.0005	4/5/91
1010	Barium	16539	1	<0.1	EPA208.1	0.01	4/4/91
1015	Cadmium	16539	0.01	.00300	EPA213.1	0.001	4/4/91
1020	Chromium	16539	0.05	<0.005	EPA218.1	0.005	4/4/91
1025	Fluoride	16539	4	.0949	EPA340.1	0.05	3/28/91
1030	Lead	16539	0.05	<0.01	EPA239.2	0.001	4/4/91
1035	Mercury	16539	0.002	<0.0002	EPA245.1	0.0002	4/2/91
1040	Nitrate(as N)	16539	10	.0625	EPA353.1	0.01	04-03-91
1045	Selenium	16539	0.01	<0.0005	EPA270.3	0.0005	4/5/91
1050	Silver	16539	0.05	<0.005	EPA272.1	0.005	4/1/91
1052	Sodium	16539	160	.109	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	16539	0.0002	<.000001	EPA508	.000001	4/1/91
2010	Lindane	16539	0.004	<.000001	EPA508	.000001	4/1/91
2015	Methoxychlor	16539	0.1	<0.00001	EPA508	0.00001	4/3/91
2020	Toxaphene	16539	0.005	<0.0001	EPA508	0.0001	4/1/91
2105	2,4-D	16539	0.1	<0.00005	EPA515	0.00005	4/3/91
2110	2,4,5-TP(Silvex)	16539	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	16539		37.9	EPA215.1	0.1	4/4/91
1017	Chloride	16539	250	10.1	EPA300.0	0.015	04-01-91
1019	Carbonate CaCO3	16539		<0.1	SM314A	0.1	4/4/91
1021	Hydroxide CaCO3	16539		<0.1	SM406C	0.1	4/4/91
1022	Copper	16539	1	.0140	EPA220.1	0.005	4/3/91
1023	Bicarbonate CaCO3	16539		<0.1	SM406C	0.1	4/4/91
1026	Carbonate Alkalinity	16539		<0.1	SM406C	0.1	4/4/91

1027	Hydrogen Sulfide	16539			EPA376.1	0.5	
1028	Iron	16539	0.3	.215	EPA236.1	0.01	4/2/91
1031	Magnesium	16539		2.90	EPA242.1	0.01	4/4/91
1032	Manganese	16539	0.05	.136	EPA243.1	0.005	3/29/91
1055	Sulfate	16539	250	2.8	EPA300.0	0.200	4/8/91
1095	Zinc	16539	5	.0210	EPA289.1	0.001	4/3/91
1901	Carbon Dioxide	16539		<0.1	SM406C	0.1	4/4/91
1905	Color	16539	15	25.0	EPA110.1	5	4/1/91
1915	Total Hardness	16539		<0.1	SM314A	0.1	4/4/91
1917	NCH as CaCO3	16539		<0.1	SM314A	0.1	4/4/91
1920	Odor(TON)	16539	3	<1	EPA140.1	1	4/1/91
1924	Field pH	16539	6.5-8.5	7.2	EPA150.1	0.01	
1925	Lab pH	16539	6.5-8.5	7.63	EPA150.1	0.01	4/1/91
1926	Field Conductivity	16539		485	-	0.01	
1927	Total Alkalinity	16539		104	EPA310.1	0.1	3/29/91
1930	TDS	16539	500	171	EPA160.1	2.5	4/1/91
1931	Phenolphthalein Alk.	16539			EPA310.1	0.1	
1996	Field Temp. (C)	16539		<1 23	-	1	4/4/91
1997	Langelier Index	16539	-0.2:+0.2	<0.01	SM203	0.01	4/4/91
1998	Saturation Index	16539		<0.01	SM203	0.01	4/4/91
1999	Stability Index	16539		<0.01	SM203	0.01	4/4/91
2909	Foaming Agents	16539	0.5	<0.1	EPA425.1	0.1	4/1/91
9996	Field DO	16539		9.1	-	0.1	
9997	Field Chlorine	16539		1.5	-	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	16539	5	2.4	EPA900	1	4/11/91

Comments:

SSU
SERVICES

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

May 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
Piney Woods/Spring Lake
PWS ID #3351021

Dear Ms. Carrasquillo,

Please find enclosed, results of re-takes on Turbidity, Color and Manganese for the above mentioned facility.

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

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 # : 91-04-476
Date Received: 04/30/91
Date Reported: 05/20/91
OLI Contact: L_BALTZLEY

Work ID: Piney Woods #553
Samples collected by: Client
Total Samples: 4

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 P.W. Color & Turb #1	COLOR Color
02 P.W. Color & Turb #2	MN_ICP Manganese
03 P.W. MN #1	TURB Turbidity
04 P.W. MN #2	

All Florida Department of Health & Rehabilitative Service Identification Numbers are:
Drinking Water Certification Number E[illegible] 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 I.D. Number: 3351021
Public Water System Name: Pinewoods
Public Water System Type (check one):
(✓) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turb. & Secondaries.

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 04/29/91 & 04/30/91
Laboratory Sample Number: 91-04-476
Sample Location: 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: Lance Shelter - Operator - 880-0059

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 HEARBY CERTIFY that all data submitted is correct.

Signature _____

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 5/22/91

Mail Results to the Appropriate DER or ACPHU Office:

DER/ACPHU Reviewing Official

_____

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

ORLANDO LABORATORIES,INC.
Received: 04/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-04-476

SAMPLE ID P.W. Color & Turb #1 — SAMPLE # 01A
DATE COLLECTED 04/29/91 16:45:00 — MATRIX WATER

COLOR	<5 PCU	TURB	<0.50 NTU

SAMPLE ID P.W. Color & Turb #2 — SAMPLE # 02A
DATE COLLECTED 04/30/91 09:30:00 — MATRIX WATER

COLOR	<5 PCU	TURB	<0.50 NTU

SAMPLE ID P.W. MN #1 — SAMPLE # 03A
DATE COLLECTED 04/29/91 16:45:00 — MATRIX WATER

MN_ICP	<0.030 mg/l

SAMPLE ID P.W. MN #2 — SAMPLE # 04A
DATE COLLECTED 04/30/91 09:30:00 — MATRIX WATER

MN_ICP	<0.030 mg/l

Southern States Utilities
Attn: Don Corder

Report No: 91-04-476
Page No: 3

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Manganese	1	94	05/01/91	TB
Turbidity	5	N/A	05/01/91	RG
Color	<1	N/A	05/01/91	RG

ORLANDO LABORATORIES, INC.
P.O. Box 549127, Orlando, FL 32854
(407) 896-0645 FAX (407) 898-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 1 of 1

0822

1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP): Bison Woods 300 N Iron Lee, FL 34748		2 CONTACT PERSON/PHONE # INVOICE: 1-800 432-4501	3 OLI WORK ORDER # (LAB USE): 9104476
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP): Site Services		5 CONTACT PERSON/PHONE # REPORT: 880-0058	6 RB NUMBER (LAB USE):
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP): Ian Corder 1000 Color Place Apopka, Fla 32703			
8 CLIENT PROJECT NAME: Bison Woods FL 553	9 CLIENT PROJECT #: P.O. 111654		

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: Color & Iron	Mg	REMARKS 19
P.W. Color & Iron #1	4/3/91 10:45		X	X			Point of Entry	1	X		
P.W. Color & Iron #2	4/30 " 1:30		X	X			" " "	1	X		
P.W. Mg #1	4/29 " 10:45		X	X			" " "	1		X	
P.W. Mg #2	4/30 " 1:30		X	X			" " "	1		X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Michael Rollins	4/30 1500	
2nd	[illegible]	4/30/91 13:[illegible]	Ruth Hemrick
3rd			

20 ADDITIONAL REMARKS:

21 COOLER #'s: B-16

22 SAMPLER'S SIGNATURE: Karen Shaffer

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

Southern States Utilities
300 N. Fern Dr.
Leesburg, FL 34748

Attn: Brian Heath

Work Order # : 91-05-075
Date Received: 05/03/91
Date Reported: 05/15/91
OLI Contact: L_BALTZLEY

Work ID: #553 Piney Woods
Samples collected by: Client
Total Samples: 2

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 Color #3 Distribution	COLOR Color
02 MN #3 Distribution	MN_ICP Manganese

Copy of results to:

SSU Services
Attn: Don Corder
1000 Color Place
Apopka, FL 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.

John Hobbs
LABORATORY DIRECTOR

Eric Malarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 05/03/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-05-075

SAMPLE ID	Color #3 Distribution	SAMPLE #	01A
DATE COLLECTED	05/03/91 11:00:00	MATRIX	WATER

COLOR	<5
	PCU

SAMPLE ID	MN #3 Distribution	SAMPLE #	02A
DATE COLLECTED	05/03/91 11:00:00	MATRIX	WATER

MN_ICP	<0.030
	mg/l

Southern States Utilities
Attn: Brian Heath

Report No: 91-05-075
Page No: 3

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Manganese	<1	85	05/06/91	TB
Color	<1	N/A	05/04/91	JN

0826

ORLANDO LABORATORIES, INC.
P.O. Box 149127, Orlando, FL 32814
(407) 896-0645 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)
Brian Heath 300 N 7th	1-800-432-4501	9105075
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)	**5 CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
S SV Services Leesburg, Fla. 34748	880-0058	
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY, STATE, ZIP)		
Don Corder 1000 Color Place Apopka, Fla. 32703		
8 CLIENT PROJECT NAME	**9 CLIENT PROJECT #**	
Piney Woods #553	PO # 111654	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: Color	Mn	19 REMARKS
Color #3	5-3-91/11:00		X	X			Distribution	1	X		
Mn #3	5-3-91/11:00		X	X				1		X	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Karen Shaffer	5-3-91 16:15	DeeDee Homan
2nd			
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE: Karen Shaffer

ORIGINAL - LAB

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
Area Supervisor

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

Serving Customers of the Deltona Service Area, Marion Oaks, Pine Ridge, St. Augustine Shores, Seabrook [illegible] and Marion Oaks, Pine Ridge, St. Augustine Shores, Seabrook [illegible] Service Areas

File

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
1000 Color Place
Apopka,FL 32703

Date Reported: April6 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

Springhole/Pinemeadows
Stone Meadow
Sunbrook Pkg

REPORT OF ANALYSIS

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, PhD
Jefferson S. Flowers, PhD
681 NEWBURYPORT
P.O. BOX 140-637
ALTAMONTE SPRINGS
FLORIDA 32714-0637
BUS (407) 695-4936
FAX (407) 695-4977

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
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
Diamyl (Vydate)	mg/L	0.002	93.2	5.66	<0.002
Simazine	mg/L	0.007	99.3	1.68	<0.007
Picloram	mg/L	0.00007	93.3	5.15	<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 NEWBERRY ROAD
P.O. BOX 140
ALTAMONTE SPRINGS
FLORIDA 32716-0140
BUS (407) 862-5554
FAX (407) 862-1177

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	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 550597
ALTAMONTE SPRINGS
FLORIDA 32755-0597
BUS (407) 339-5556
FAX (407) 260-0117

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
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-dinitrop	mg/L	0.001	103	1.95	<0.001
Phenol	mg/L	0.001	98.6	3.79	<0.001
2,4,6-trichlorophenol	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) 339-4384
FAX (407) 260-0111

[redacted]LIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3351021
Public Water System Name Piney Woods/Springlake
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): #1 + #2 wells - Plant S. Ex
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 Approopriate 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)
(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
2952	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)
(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-dinitrophe	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:

13-1

FDER Lab# E83018
FDHRS Lab# 85139
NCDEHNR Lab# 390
SCDHEC Lab# 96010

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

Dan Corder

(1)Client	(2)Address	(3)Phone
Southern States	1000 color place	880-0058 ext 148

(4)Public Drinking Water ID #:
(5)Public Water System Name:
(6)Project # Kinsey Woods - Spring Lake Addition
(7)PO# 891034
(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	
1	4										✓						(9)Turn Around Time:
	1								✓							✓	10 Working Days:
	1	✓						✓									5 Working Days :
	1	✓												✓			3 Working Days :
																	1 Working Day :
																	Other :

(10)Relinquished: (10)Date (10)Time
(11)Received (11)Date (11)Time

1) SAMPLE INFORMATION; SAMPLE DATE: MONTH____ DATE____ YEAR____
SAMPLE TYPE (check all applicable): ( ) shock, ( ) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME:_____ TITLE:_____ PHONE:_____
SAMPLER'S SIGNATURE:_____
NOTES:

Temp 74°
Cond 485
pH 7.2
DO 8.1
Cl2 1.5

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
16538	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16)Collectors Signature:		3-16-91	9:45
(17)Transporters Signature:		3-26-91	
(18)Lab Acceptance By:		3/26/91	4:25

SEE BACK FOR INSTRUCTIONS FOR COMPLETION

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# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: COMP. SAMPLE
Date Received: May31 1991 Lab Number : 17042

REPORT OF ANALYSIS

Pinewoods/Spring Lake
2nd 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	86.6	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 FDL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
NEWBURYPORT
P.O. BOX 150-59
ALTAMONTE SPRINGS
FLORIDA

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Pinewoods/Spring Lake
Public Water System Name 3357021
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 17042
Sample Location (be specific): 2-Wells (Plant St.)
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 Official:

_____

PWSA.01 Sample Interpretation (check one)
Effective 06.01.91 (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	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# E93010
FDHRS Lab# 93139
INCIDENT Lab# 788
SCORED Lab# 90010

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

(1) Client: DON CORDER — SOUTHERN STATES OIL
(2) Address: 1000 COLOR PLACE, APOPKA, FL 32703
(3) Phone: 880-0058 X148
(4) Public Drinking Water ID #:
(5) Public Water System Name: Sunshine Pines Water System (See Attached for Other VOA's)
(6) Project #: PO# 391039
(7) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

		Preservative				Plastic Containers							Glass Containers						
			HNO3	H2SO4	NaOH		60ml	125ml	250ml	500ml	1L	Wheel-Pac Bag	40ml	250ml	300ml	1L	2L	4L
	10												X						

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

Please composite

(10) Relinquished: [signature] — (10) Date: 5-28 — (11) 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: ____
NOTES:

(12) Parameter Group(s) Analyzed: 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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Place
Apopka,FL 32703

Date Reported: Aug23 1991
PO Number: 891039
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

Pinewoods/Spring Lake
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 160-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5994

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 3351021
Public Water System Name: Pinegrove Park/Spring Lake
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 + #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 Shetler - 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 05/01/ () 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	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

Name: Don Corder
Affiliation: SSU
Address: 1000 Color Place Apopka, FL 32703
Phone: 880-0058
Public Drinking Water ID #:
Public Water System Name:
Project #: 891039
Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

Preservative			Plastic Containers						Glass Containers					
	HNO3	H2SO4/NaOH		60ml	125ml	250ml	500ml	1L	Headspace Free	40ml	125ml	250ml	1L	1L	
15										X					

Turn Around Time:
10 Working Days:
5 Working Days:
2 Working Days:
1 Working Day:
Other:

Relinquished: (A) Date (A) Time
Received: (B) Date (B) Time

TITLE INFORMATION; SAMPLE DATE: MONTH____ DAY____ YEAR____
WATER 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:____

FEE:
#560
(water) Sunshine Pkwy - #3350191
#553
(water) Piney Woods / Lawne Lk. Mann - #3351021 > Please composite
(water) Stone Mountain - #3351251
#565

Inorganic Chemical ( ) Arsenic ( ) Fluoride ( ) Inorganic ( ) Fluoroaromatics ( ) Volatile Organic (X)
Volatile Chemical ( ) Secondary Chemical ( ) Radiological ( ) Unregulated Volatile Purgeable ( )
Unregulated Volatile Pesticide ( ) Unregulated Base (Neutral Extractable ( ) Unregulated Acid Extractable ( )

Laboratory Number: 17558

Client Sample Identification:
01
02
03
04
05
06
07
08
09
10

		Date	Time
Collector's Signature:	Lawne Hauffle	8-16-91	
Transporter's Signature:	Lawne Hauffle	8-16-91	
Lab Acceptance (A):		8/16/91	12:25

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

Piney woods

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18375
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) 339-6984
FAX: (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 335/021
Public Water System Name Piney Woods
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 18375
Sample Location (be specific): Plant - #1 + #2 wells
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 - 880-0058

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 INCORPORATED

FDER Lab# E83018
FDHRS Lab# 85139
NCDEHNR Lab# 284
SCDHEC Lab# 96019

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

(1)Client: Southern Stat | (2)Address: 1100 Colon Rd. Apopka 32703 | (3)Phone: 880-CCS 1418

(4)Public Drinking Water ID #: | (5)Public Water System Name:

(6)Project #: | (8)Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

(7)PO# 34,039

	Preservative			Plastic Containers					Glass Containers						NOTES:
	HNO3	ZnOAc/NaOH		60ml	125ml	250ml	500ml	1L	White-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
(16) 1										X						(12)Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other:
																2- Sunshine Rd.
																2- Piney Woods Rd. Zk. mains
																1- Stone Mountain
																Cplease comply

(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
	#1	553 W#1 - Piney Woods
	#2	553 W#2 - Piney Woods
18375	#3	560 W#1 - Sunshine Rd.
	#4	560 W#2 - Sunshine Rd.
	#5	515 W#1 - Stone Mt.
	#6	
	#7	
	#8	
	#9	
	#10	

		Date	Time
(13)Collectors Signature:	Brian Heath Take ID Number	11/26/91	10:00AM
(14)Transporters Signature:	Take ID Number	11-26-91	3:30 PM
(15)Lab Acceptance By:	M. McCoy	11/26/91	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

I.D. NO. LAB USE ONLY
REC'D ORL
DEC 17 1 18 PM '91
BY: G KALANIS
12/13

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Spring Lake # 553 (Army Woods) SYSTEM I.D. NO: 3357021 SYSTEM PHONE #: 800-432-4501
ADDRESS: Spring Lake Dr. COUNTY: Lake Co. DER DISTRICT: Central
COLLECTOR: John Hawescraft COLLECTOR PHONE #: 800-432-4501
SAMPLE SITE (Locality or Subdivision): Spring Lake
DATE AND TIME COLLECTED: 12-12-91 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): (Routine) Repeat Replacement Main clearance Well survey Other _____ (Specify)
(Check Box) (Check Box)
[ ] Distribution [ ] TNTC or C
[ ] 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	NON COLIFORM	*TOTAL	CONFIRM TOTAL	CONFIRM FECAL
W-1	Well #1	0.0		053782	M	A		
W-2	Well #2	0.0		053783		A		
T-1	Tank	1.2		053784		A		
T-2	Tank	1.0		053785		P(1)	(P)	A
R-1	02120 Spring Lake Dr.	0.8		053786	M	P(1)	(P)	A
R-2	02040 Live Oak	1.0		053787		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 91 (Obsolete previous editions which may not be used) (Stock Number 1760-000-0868-4)

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

Tank + 02120 Spring Lk → (X)

REVIEWING OFFICIAL: DR

TITLE: _____

PLANT TECHNICIANS LABORATORY

P.O. Box 447 Fruitland Pk, FL 34731

LAB: 904/787-6689
ADMIN: 904/787-2944
№ 8739

Certified Plant Operators • Consultation • Water and Wastewater Testing

DATE COLLECTED	TIME	COUNTY	COLLECTOR	TIME REC'D	DATE TESTED
12/19/91	10AM	Lake	Brian Heath	10:15	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: Piney Woods #553

NAME OR LOCATION OF WATER PLANT:

TYPE OF SAMPLE	ROUTINE	RE-CHECK	MAIN CLEARANCE	WELL SURVEY	OTHER
		X			Repeats from 12/91

LAB: PLANT TECHNICIANS, INC. HRS # 83289

SYSTEM I.D. No. FLA 3351021

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	LS 48	BG 48	MPN 100 MLS	MF 100 MLS	NON-COLIFORM
91-12390	T-2	Pressure Tank #2	CL	1.2					A	A
391	R-1	02120 Spring Lake Rd.	CL	0.9					A	A
392	R-2	36220 Pinetree	CL	0.8					A	A
393	R-3	02104 Malanie Street	CL	0.9					A	A

WATER ANALYSIS PERFORMED

TOTAL COLIFORM

INTERPRETATIONS-RECOMMENDATIONS

FOR DER 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

PS87O623

BY NAME JR TITLE DFR

Point O' Woods - 987

Citrus County (SSU)

Water

- 1992 FPSC Filing -

Point 'O 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.

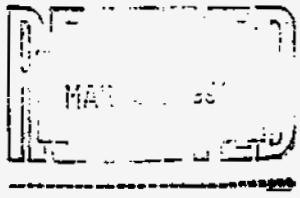
Chemical Analysis	Date Taken
Inorganic	11/89
Organic	11/89
Volatile Organic Chemicals	1/91
	3/91
	7/91
	10/91
Turbidity	11/89
Microbiological	12/91
Radionuclide	11/89
Secondary Contaminants	11/89
Unregulated Contaminants	1/91

SSU SERVICES

To Dave

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

March 5, 1991



Ms. Cece Featheringill
Environmental Specialist II
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa. FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the first quarterly tests taken for volatile organics, unregulated organic purgeables, unregulated organic pesticide, unregulated base neutral extractable and unregulated acid extractable per DER Drinking Water Standards 17550 for the following water plants in Citrus County. Pine Ridge - composite. Crystal River. Gospel Island. Apache Shores - composite, Point O'Woods, Golden Terrace - composite. Oak Forest, Rosemont and Rolling Green - composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.E. Williams. General Manager
Pine Ridge & SSU County Plants

RDW:sr

Attachments

cc: Charles L. Sweat
Chris Arcand
Frank Sanderson
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PW 1,2,3/6T-1&2
Date Received: Jan24 1991 Lab Number : 16097

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16097
Ethylene dibromide	mg/L	0.000005	82.9	4.73	<0.000005
Para-dichlorobenzene	mg/L	0.001	104	.552	<0.001
Vinyl chloride	mg/L	0.001	88.9	1.25	<0.001
1,1-dichloroethene	mg/L	0.001	88.9	1.25	<0.001
1,2-dichloroethane	mg/L	0.001	102	5.02	<0.001
1,1,1-trichloroethan	mg/L	0.001	95.1	.853	<0.001
Carbon tetrachloride	mg/L	0.001	92.4	.331	<0.001
Trichloroethene	mg/L	0.001	99.5	.655	<0.001
Tetrachloroethene	mg/L	0.001	96.9	.330	<0.001
Benzene	mg/L	0.001	95.1	3.71	<0.001
Chloromethane	mg/L	0.001	112	1.44	<0.001
Dichlorodifluorometh	mg/L	0.001	92.4	.331	<0.001
Bromomethane	mg/L	0.001	112	1.44	<0.001
Chloroethane	mg/L	0.001	88.9	1.25	<0.001
Trichlorofluorometha	mg/L	0.001	92.4	.331	<0.001
trans-1,3,-dichlorop	mg/L	0.001	85.9	1.45	<0.001
cis-1,3-dichloroprop	mg/L	0.001	100	8.83	<0.001
Methyl-tert-butyleth	mg/L	0.001	115	11.5	<0.001
cis-1,2-dichloroethe	mg/L	0.001	100	8.83	<0.001
Dibromomethane	mg/L	0.001	112	1.44	<0.001
1,1-dichloropropene	mg/L	0.001	88.9	1.25	<0.001
1,3-dichloropropane	mg/L	0.001	85.9	1.45	<0.001
1,2,3-trichloropropa	mg/L	0.001	107	3.86	<0.001
2,2-dichloropropane	mg/L	0.001	88.9	1.25	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	107	3.86	<0.001
Chloroform	mg/L	0.001	96.3	.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 PhD
Jefferson S Flowers PhD
481 NEWBURYPORT
P O BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
305 [illegible]

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprgs.
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PW 1,2,3/6T-1&2
Date Received: Jan24 1991 Lab Number : 16097

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16097
Bromoform	mg/L	0.001	115	15.2	<0.001
Bromodichloromethane	mg/L	0.001	94.4	.047	<0.001
Dibromochloromethane	mg/L	0.001	103	12.4	<0.001
p-xylene	mg/L	0.001	93.9	1.40	<0.001
Methylene chloride	mg/L	0.001	112	1.44	<0.001
o-chlorotoluene	mg/L	0.001	93.9	1.40	<0.001
p-chlorotoluene	mg/L	0.001	107	1.15	<0.001
m-dichlorobenzene	mg/L	0.001	102	.044	<0.001
o-dichlorobenzene	mg/L	0.001	102	.003	<0.001
1,1-dichloroethane	mg/L	0.001	87.2	.596	<0.001
trans-1,2-dichloroet	mg/L	0.001	85.9	1.45	<0.001
1,2-dichloropropane	mg/L	0.001	96.1	.675	<0.001
1,1,2-trichloroethan	mg/L	0.001	108	11.4	<0.001
1,1,1,2-tetrachloroe	mg/L	0.001	93.9	1.40	<0.001
1,1,2,2-tetrachloroe	mg/L	0.001	103	7.73	<0.001
Chlorobenzene	mg/L	0.001	95.9	1.60	<0.001
Toluene	mg/L	0.001	107	1.15	<0.001
Ethylbenzene	mg/L	0.001	88.0	5.12	<0.001
Bromobenzene	mg/L	0.001	95.9	1.60	<0.001
m-xylene	mg/L	0.001	93.9	1.40	<0.001
Styrene	mg/L	0.001	107	1.15	<0.001
o-xylene	mg/L	0.001	93.9	1.40	<0.001
Dalapon	mg/L	0.000001	95.3	2.85	<0.000001
Oxamyl (Vydate)	mg/L	0.002	99.0	0.00	<0.002
Simazine	mg/L	0.007	101	9.83	<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.
484 NEWBURYPORT
P.O. BOX 550597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-0117

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PW 1,2,3/6T-1&2
Date Received: Jan24 1991 Lab Number : 16097

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16097
Dinoseb	mg/L	0.00001	106	3.28	<0.00001
Aldicarb sulfoxide	mg/L	0.002	95.0	7.44	<0.002
Aldicarb sulfone	mg/L	0.002	100	7.86	<0.002
Metolachlor	mg/L	0.0005	108	4.60	<0.0005
Carbofuran	mg/L	0.001	96.0	5.24	<0.001
Aldicarb	mg/L	0.002	97.7	0.00	<0.002
Atrazine	mg/L	0.002	101	0.65	<0.002
Alachlor (Lasso)	mg/L	0.0002	107	3.91	<0.0002
Heptachlor	mg/L	0.000005	107	3.99	<0.000005
Aldrin	mg/L	0.00007	109	5.35	<0.00007
Dieldrin	mg/L	0.00001	107	4.26	<0.00001
Dicamba	mg/L	0.00001	108	4.64	<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	100	0.02	<0.001
Dioxin	mg/L	0.00001	98.2	3.23	<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	93.5	3.97	<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
381 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715-0597

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprngs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: PW 1,2,3/6T-1&2
Date Received: Jan24 1991 Lab Number : 16097

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16097
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	99.7	3.44	<0.0001
PCB-1254	mg/L	0.0001	106	3.18	<0.0001
PCB-1260	mg/L	0.0001	94.0	3.69	<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 NEWBURYPORT
P.O. BOX 150597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5084
FAX (407) 260-6117

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: POINT OF WOODS - 6091422 - GOLDEN TERRACE-6090E
Public Water System Name _____
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_X_;
Unregulated Base Neutral Extractable_X_;Unregulated Acid Extractable__X_;
Subcontracted Lab Certification Number (if any):

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 16097
Sample Location (be specific): POINTE WOODS WELL'S 1-2-3 GOLDEN TEL WELL'S 1 -
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: ROBERT WOOSTER
904 489-2452

ANALYSIS INFORMATION
Extraction Date 1/31/91
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 2/15/91

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	16097	.00002	<0.000005	EPA504.1	.000005	2/5/91
2969	Para-dichlorobenzene	16097	.075	<0.001	EPA502.2	0.001	1/31/91
2976	Vinyl chloride	16097	0.001	<0.001	EPA502.2	0.001	1/31/91
2977	1,1-dichloroethene	16097	0.007	<0.001	EPA502.2	0.001	1/31/91
2980	1,2-dichloroethane	16097	0.003	<0.001	EPA502.2	0.001	1/31/91
2981	1,1,1-trichloroethane	16097	0.2	<0.001	EPA502.2	0.001	1/31/91
2982	Carbon tetrachloride	16097	0.003	<0.001	EPA502.2	0.001	1/31/91
2984	Trichloroethene	16097	0.003	<0.001	EPA502.2	0.001	1/31/91
2987	Tetrachloroethene	16097	0.003	<0.001	EPA502.2	0.001	1/31/91
2990	Benzene	16097	0.001	<0.001	EPA502.2	0.001	1/31/91

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	16097		<0.001	EPA502.2	0.001	1/31/91
2212	Dichlorodifluoromethan	16097		<0.001	EPA502.2	0.001	1/31/91
2214	Bromomethane	16097		<0.001	EPA502.2	0.001	1/31/91
2216	Chloroethane	16097		<0.001	EPA502.2	0.001	1/31/91
2218	Trichlorofluoromethane	16097		<0.001	EPA502.2	0.001	1/31/91
2224	trans-1,3,-dichloroprop	16097		<0.001	EPA502.2	0.001	1/31/91
2228	cis-1,3-dichloropropene	16097		<0.001	EPA502.2	0.001	1/31/91
2251	Methyl-tert-butylether	16097		<0.001	EPA502.2	0.001	1/31/91
2380	cis-1,2-dichloroethene	16097		<0.001	EPA502.2	0.001	1/31/91
2408	Dibromomethane	16097		<0.001	EPA502.2	0.001	1/31/91
2410	1,1-dichloropropene	16097		<0.001	EPA502.2	0.001	1/31/91
2412	1,3-dichloropropane	16097		<0.001	EPA502.2	0.001	1/31/91
2414	1,2,3-trichloropropane	16097		<0.001	EPA502.2	0.001	1/31/91
2416	2,2-dichloropropane	16097		<0.001	EPA502.2	0.001	1/31/91
2931	1,2-dibromo-3-chloropr	16097		<0.001	EPA502.2	0.001	1/31/91
2941	Chloroform	16097		<0.001	EPA502.2	0.001	1/31/91
2942	Bromoform	16097		<0.001	EPA502.2	0.001	1/31/91
2943	Bromodichloromethane	16097		<0.001	EPA502.2	0.001	1/31/91
2944	Dibromochloromethane	16097		<0.001	EPA502.2	0.001	1/31/91
2962	p-xylene	16097		<0.001	EPA502.2	0.001	1/31/91
2964	Methylene chloride	16097		<0.001	EPA502.2	0.001	1/31/91
2965	o-chlorotoluene	16097		<0.001	EPA502.2	0.001	1/31/91
2966	p-chlorotoluene	16097		<0.001	EPA502.2	0.001	1/31/91
2967	m-dichlorobenzene	16097		<0.001	EPA502.2	0.001	1/31/91
2968	o-dichlorobenzene	16097		<0.001	EPA502.2	0.001	1/31/91
2978	1,1-dichloroethane	16097		<0.001	EPA502.2	0.001	1/31/91
2979	trans-1,2-dichloroethyl	16097		<0.001	EPA502.2	0.001	1/31/91
2983	1,2-dichloropropane	16097		<0.001	EPA502.2	0.001	1/31/91
2985	1,1,2-trichloroethane	16097		<0.001	EPA502.2	0.001	1/31/91
2986	1,1,1,2-tetrachloroetha	16097		<0.001	EPA502.2	0.001	1/31/91
2988	1,1,2,2-tetrachloroetha	16097		<0.001	EPA502.2	0.001	1/31/91
2989	Chlorobenzene	16097		<0.001	EPA502.2	0.001	1/31/91

2991	Toluene	16097	<0.001	EPA502.2	0.001	1/31/91
2992	Ethylbenzene	16097	<0.001	EPA502.2	0.001	1/31/91
2993	Bromobenzene	16097	<0.001	EPA502.2	0.001	1/31/91
2995	m-xylene	16097	<0.001	EPA502.2	0.001	1/31/91
2996	Styrene	16097	<0.001	EPA502.2	0.001	1/31/91
2997	o-xylene	16097	<0.001	EPA502.2	0.001	1/31/91

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	16097		<.000001	EPA515	.000001	2/14/91
2036	Oxamyl (Vydate)	16097		<0.002	EPA531	0.002	2/14/91
2037	Simazine	16097		<0.007	EPA505	0.007	2/14/91
2040	Picloram	16097		<0.00007	EPA515	0.00007	2/14/91
2041	Dinoseb	16097		<0.00001	EPA515	0.00001	2/14/91
2043	Aldicarb sulfoxide	16097		<0.002	EPA531	0.002	2/14/91
2044	Aldicarb sulfone	16097		<0.002	EPA531	0.002	2/14/91
2045	Metolachlor	16097		<0.0005	EPA505	0.0005	2/14/91
2046	Carbofuran	16097		<0.001	EPA531	0.001	2/14/91
2047	Aldicarb	16097		<0.002	EPA531	0.002	2/14/91
2050	Atrazine	16097		<0.002	EPA505	0.002	2/14/91
2051	Alachlor (Lasso)	16097		<0.0002	EPA505	0.0002	2/14/91
2065	Heptachlor	16097		<.000005	EPA508	.000005	2/14/91
2356	Aldrin	16097		<0.00007	EPA508	0.00007	2/14/91
2364	Dieldrin	16097		<0.00001	EPA508	0.00001	2/14/91
2440	Dicamba	16097		<0.00001	EPA515	0.00001	2/14/91
2959	Chlordane	16097		<0.00001	EPA508	0.00001	2/14/91
9114	Pentachlorophenol	16097		<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	16097		<0.001	EPA508	0.001	2/13/91
2063	Dioxin	16097		<0.00001	EPA613	0.00001	2/13/91
2262	Isophorone	16097		<0.001	EPA609	0.001	2/12/91
2270	2,4-dinitrotoluene	16097		<0.001	EPA609	0.001	2/12/91
2282	Dimethylphthalate	16097		<0.001	EPA606	0.001	2/12/91
2284	Diethylphthalate	16097		<0.001	EPA606	0.001	2/12/91
2290	Di-n-butylphthalate	16097		<0.001	EPA606	0.001	2/12/91
2294	Butyl benzyl phthalate	16097		<0.001	EPA606	0.001	2/12/91
2298	Bis(2-ethylhexyl)phthal	16097		<0.001	EPA606	0.001	2/12/91
2378	1,2,4-trichlorobenzene	16097		<0.001	EPA612	0.001	2/12/91
2388	PCB-1016	16097		<0.0001	EPA505	0.0001	2/13/91
2390	PCB-1221	16097		<0.0001	EPA505	0.0001	2/13/91
2392	PCB-1232	16097		<0.0001	EPA505	0.0001	2/13/91
2394	PCB-1242	16097		<0.0001	EPA505	0.0001	2/13/91
2396	PCB-1248	16097		<0.0001	EPA505	0.0001	2/13/91
2398	PCB-1254	16097		<0.0001	EPA505	0.0001	2/13/91

2400	PCB-1260	16097	<0.0001	EPA505	0.0001	2/13/91
9089	Dioctylphthalate	16097	<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	16097		<0.001	EPA604	0.001	2/12/91
9112	2-methyl-4,6-dinitophe	16097		<0.001	EPA604	0.001	2/12/91
9115	Phenol	16097		<0.001	EPA604	0.001	2/12/91
9116	2,4,6-trichlorophenol	16097		<0.001	EPA604	0.001	2/12/91

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FCHRS LAB# 93135
NCDEHNR Lab# 284
SCDHEC Lab# 96019

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

(1) Client: Citrus Springs Util.	(2) Address: 9840 W. Citrus Springs Blvd Citrus Springs, Fla.	(3) Phone: (904) 489-2452
(4) Public Drinking Water ID #: Pasco County 53	(5) Public Water System Name: Unit of Wells	
(6) Project #: Citrus County	(8) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community	
(7) PO#: 8/9/11 K		

	Preservative			Plastic Containers						Glass Containers						NOTES:
	HNO3	ZnOAc/NaOH		60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	(8) Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other:
(9) 18										X					X	
511										X						

(10) Kit Relinquished:	(10) Date / (10) Time	(11) Kit Received	(11) Date / (11) Time

12) SAMPLE INFORMATION; SAMPLE DATE: MONTH ___ DATE 23 YEAR ___
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution
(X) composite, ( ) clerance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, ( ) resample [illegible], ( ) special ___
SAMPLER'S NAME: R Bogosta TITLE: [illegible] PHONE: [illegible]
SAMPLER'S SIGNATURE: [illegible]
NOTES:

Composite with Pantowards wells #142 - Golden Terrace wells #142

(13) 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;

(14) Laboratory Number	(15) Client Sample Identification		
16097	#1 WELL - 3	Coll. of Jug	Raw
	#2 "	WELL 3	"
	#3 "	WELL 3	"
	#4 "	WELL 3	"
	#5		
	#6		
	#7		
	#8		
	#9		
	#10		

		Date	Time
(16) Collectors Signature:	[illegible]	[illegible]	[illegible]
(17) Transporters Signature:	[illegible]	1/24/11	3:[illegible]
(19) Lab Acceptance By:			

OVER FOR INSTRUCTIONS FOR COMPLETION

CHEMICAL LABORATORIES INCORPORATED

PDER Lab# E83018
PDHRS Lab# 85150
NCDEHNR Lab# 284
SCDHEC Lab# 99018

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

(1) Client: Citrus Springs Util.
(2) Address: 9840 W. Citrus Springs Blvd, Citrus Springs, FL 34430
(3) Phone: (904) 489-2452
(4) Public Drinking Water ID#: [illegible]
(5) Public Water System Name: [illegible]
(6) Project #: Citrus County
(7) PO#: 13/9018
(8) Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community

(9)		Preservative			Plastic Containers						Glass Containers						NOTES:
		HNO3	ZnOAC+NaOH		60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	(10) Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___
	18															X	
	511										X						

(10) Kit Relinquished: (10) Date: (10) Time:
(11) Kit Received: (11) Date: (11) Time:

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 1 DATE 23 YEAR 91
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution (X) composite, ( ) clerance, ( ) max residence time, ( ) plant tap, ( ) raw, ( ) well, ( ) resample _____, ( ) special _____
SAMPLER'S NAME: R Pickens TITLE: Operator PHONE: [illegible]
SAMPLER'S SIGNATURE: [illegible]
NOTES:
Composite with Pointo Woods Well #3 / Golden Terrace Well #2

(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	
16097	#1	well-1 POU Callon Jug
	#2	" " well-4
	#3	" " well-1
	#4	" " well-1
	#5	well-2 POU Callon Jug
	#6	" " well 2
	#7	" " well 2
	#8	" " well 2
	#9	
	#10	

		Date	Time
(16) Collectors Signature:	[signature]	1-23-91	9:50 AM
(17) Transporters Signature:	[signature]	1/24/91	4:00
(19) Lab Acceptance By:			

OVER FOR INSTRUCTIONS FOR COMPLETION

SSU
SERVICES

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

April 23, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department Of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the second quarterly tests taken for volatile organics per DER Drinking Water Standards 17550 for the following water plants in Citrus County: Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Golden Terrace - composite, Oak Forest, Rosemont and Rolling Green, composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.B. Williams, General manager
Pine Ridge & SSU Citrus County Plants

RBW:sr

Attachments

cc: Charles L. Sweat
Chris Arcand

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Spgs.Util.
9840 N.CitrusSpgBlv
CitrusSpg,FL 32630

Date Reported: Apr 9 1991
PO Number: B91019
PO Number Citrus Spgs.
FDHRS Lab# : 93139
FDEP Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: POINT OF WOODS/GOLDEN TERR.
Date Received: Mar28 1991 Lab Number : 16560

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%RCC	%PRC	16560
Ethylene dibromide	mg/L	0.000005	82.8	12.3	<0.000005
Para-dichlorobenzene	mg/L	0.001	115	3.65	<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	5.19	<0.001
Benzene	mg/L	0.001	93.8	.469	<0.001

Data Release Authorization

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

Jefferson S. Flowers, Ph.D.
Technical Director

Page 1 of 4

Jefferson S. 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

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	16560	.00002	<.000005	EPA504.1	.000005	4/8/91
2969	Para-dichlorobenzene	16560	.075	<0.001	EPA502.2	0.001	3/30/91
2976	Vinyl chloride	16560	0.001	<0.001	EPA502.2	0.001	3/30/91
2977	1,1-dichloroethene	16560	0.007	<0.001	EPA502.2	0.001	3/30/91
2980	1,2-dichloroethane	16560	0.003	<0.001	EPA502.2	0.001	3/30/91
2981	1,1,1-trichloroethane	16560	0.2	<0.001	EPA502.2	0.001	3/30/91
2982	Carbon tetrachloride	16560	0.003	<0.001	EPA502.2	0.001	3/30/91
2984	Trichloroethene	16560	0.003	<0.001	EPA502.2	0.001	3/30/91
2987	Tetrachloroethene	16560	0.003	<0.001	EPA502.2	0.001	3/30/91
2990	Benzene	16560	0.001	<0.001	EPA502.2	0.001	3/30/91

Comments:

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Springs
9840 N.CitrusSprgs.B
CitrusSprgs,FL 32630

Date Reported: Jul15 1991
PO Number: B91018
PO Number Citrus Co-900
FDHRS Lab# : 83139
FDEP Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: GOLDEN TERR / PCLC
Date Received: Jul 2 1991 Lab Number : 17252

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17252
Ethylene dibromide	mg/L	0.000005	107	7.00	<0.000005
Para-dichlorobenzene	mg/L	0.001	119	3.30	<0.001
Vinyl chloride	mg/L	0.001	93.7	.278	<0.001
1,1-dichloroethene	mg/L	0.001	93.7	.279	<0.001
1,2-dichloroethane	mg/L	0.001	97.3	1.54	<0.001
1,1,1-trichloroethan	mg/L	0.001	94.7	.774	<0.001
Carbon tetrachloride	mg/L	0.001	94.5	.112	<0.001
Trichloroethene	mg/L	0.001	99.0	.225	<0.001
Tetrachloroethene	mg/L	0.001	99.8	1.71	<0.001
Benzene	mg/L	0.001	97.0	.280	<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

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715-059?
BUS (407) 339-5984
FAX (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Point of Woods - 6091422 - Golden Terrace - 6090674
Public Water System Name _____
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 16560
Sample Location (be specific): Point of Woods wells 1-2-3 Golden Terrace wells 1+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: Robert Bogstad Operator
904-469-2452

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 4/8/91

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

DER /ACPHU Reviewing Offical:

_____

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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Point O Woods
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 17252
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 7/12/91

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)
(PWS028)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	17252	.00002	<.000005	EPA504.1	.000005	7/12/91
2969	Para-dichlorobenzene	17252	.075	<0.001	EPA502.2	0.001	7/6/91
2976	Vinyl chloride	17252	0.001	<0.001	EPA502.2	0.001	7/6/91
2977	1,1-dichloroethene	17252	0.007	<0.001	EPA502.2	0.001	7/6/91
2980	1,2-dichloroethane	17252	0.003	<0.001	EPA502.2	0.001	7/6/91
2981	1,1,1-trichloroethane	17252	0.2	<0.001	EPA502.2	0.001	7/6/91
2982	Carbon tetrachloride	17252	0.003	<0.001	EPA502.2	0.001	7/6/91
2984	Trichloroethene	17252	0.003	<0.001	EPA502.2	0.001	7/6/91
2987	Tetrachloroethene	17252	0.003	<0.001	EPA502.2	0.001	7/6/91
2990	Benzene	17252	0.001	<0.001	EPA502.2	0.001	7/6/91

Comments:

0873

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

Jellerson L. Flowers, Ph.D.
Jellerson 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: CITRUS SPRINGS
Address: 9540 N CITRUS SPRINGS BLVD. CITRUS SPRINGS, FL. 32630
Phone: 904-489-2752
Sampled By (PRINT): JOHN MACKENZIE
Sampler Signature: John MacKenzie Date Sampled: 7/1/91

FCL Client No:
FCL Project Manager: L. SEBECK
FCL Lab Coordinator: S. WELSH
Requested Due Date: ASAP

P.O. Number: 89108
Project Name / No.: Citrus Co. 90000
Contact: B. Williams

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO
1	COMPOSIT OF ROLLING FARM 1+2 RESERVOIR WELL	11:00	D.W.	12751
2	OAK FOREST 1+2	9:00		
3	COMPOSIT POW 1-2-3	11:40		12752
4	GOLDEN TERRACE 1+2			
5	COMPOSIT APALM SHORES 1+2 COMPOSIT KING 1+2	8:30	HOSPITALITY	12753
6	PINE RIDGE 2+3	12:00		12754

NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST
					VOCs

CARRIER	BAILER	SHIP DATES: OUT / DATE	RETURNED / DATE
UPS		6/17/91	

SPECIAL INSTRUCTIONS: NO AIR IN VIALS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FL	6/17/91	4:54			

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

QTY	Sa Co
54	
	HNO3
	H2SO4
	HCl
	Na2S2O3
	Zn(C2H3O2)
	NaOH
	80mL
	125mL
	250mL
	500mL
	1L
	2L
	Whirl-Pak Bi
X	40mL Vial
	250mL
	500mL
	1L
	2L
	4L

NOTES:

Golden Terrace

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
PO Box 217
Dunnellon,FL 32630

Date Reported: Oct15 1991
PO Number: B91018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2
Date Received: Oct10 1991 Lab Number : 17958

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17958
Ethylene dibromide	mg/L	0.000005	107	1.55	<0.000005
Para-dichlorobenzene	mg/L	0.001	92.1	2.02	<0.001
Vinyl chloride	mg/L	0.001	109	2.55	<0.001
1,1-dichloroethene	mg/L	0.001	109	2.55	<0.001
1,2-dichloroethane	mg/L	0.001	108	4.12	<0.001
1,1,1-trichloroethan	mg/L	0.001	111	1.32	<0.001
Carbon tetrachloride	mg/L	0.001	109	.847	<0.001
Trichloroethene	mg/L	0.001	101	1.35	<0.001
Tetrachloroethene	mg/L	0.001	97.5	.548	<0.001
Benzene	mg/L	0.001	105	.244	<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 Point Alwood S
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 17958
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 10/14/91

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	17958	.00002	<.000005	EPA504.1	.000005	10/11/91
2969	Para-dichlorobenzene	17958	.075	<0.001	EPA502.2	0.001	10/11/91
2976	Vinyl chloride	17958	0.001	<0.001	EPA502.2	0.001	10/11/91
2977	1,1-dichloroethene	17958	0.007	<0.001	EPA502.2	0.001	10/11/91
2980	1,2-dichloroethane	17958	0.003	<0.001	EPA502.2	0.001	10/11/91
2981	1,1,1-trichloroethane	17958	0.2	<0.001	EPA502.2	0.001	10/11/91
2982	Carbon tetrachloride	17958	0.003	<0.001	EPA502.2	0.001	10/11/91
2984	Trichloroethene	17958	0.003	<0.001	EPA502.2	0.001	10/11/91
2987	Tetrachloroethene	17958	0.003	<0.001	EPA502.2	0.001	10/11/91
2990	Benzene	17958	0.001	<0.001	EPA502.2	0.001	10/11/91

Comments:

CHEMICA LABORATORIES INCORPORATED

FDER Lab# E82016
FDHRS Lab# 85132
NCCEHAR Lab# 284
SCCHEC Lab# 96018

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

ATTN: Bob Williams

(1)Client	(2)Address	(3)Phone
Citrus Springs Util.	P.O. Box 217 Dunnellon, FL. 32630	(904) 245-1504

(4)Public Drinking Water ID # (5)Public Water System Name: Citrus Co. Composites

(6)Project # Citrus Co. Composites (8)Public Water System Type

(7)P.O.# B91018 (X) 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	(12)Turn Around Time:
																10 Working Days:
																5 Working Days :
																3 Working Days :
																1 Working Day :
																Other :
(16)	54									X						

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

VOC's

(18)Laboratory Number	(11)Client Sample Identification
17957	#1 Composit of Rolling Garden Wells 1+2 Oak Forest 1+2 Rosemont Well 1
17958	#2 Composit of Pow 1-2-3 Golden Terr. 1+2
17959	#3 Composit of Apache Shores 1+2 Crystal River 1+2 Post Rd.
17960	#4 Composit Pine Ridge 2+3
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	John C Grace Kenji	10/8	4:00 pm
(14)Transporters Signature:			
(15)Lab Acceptance By:		10/10/91	10:10

Over for numbered instructions.

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6091422
Public Water System Name: Point of 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_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: HRS13166

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number: 14501
Sample Location (be specific): Wells 1-2-3
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special 3 year and Radiological
Sampler Name, Title Phone: ANDY ANDREWS 1-800 432-4501 OPERATOR

ANALYSIS INFORMATION
Extraction Date 11/20/89
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.

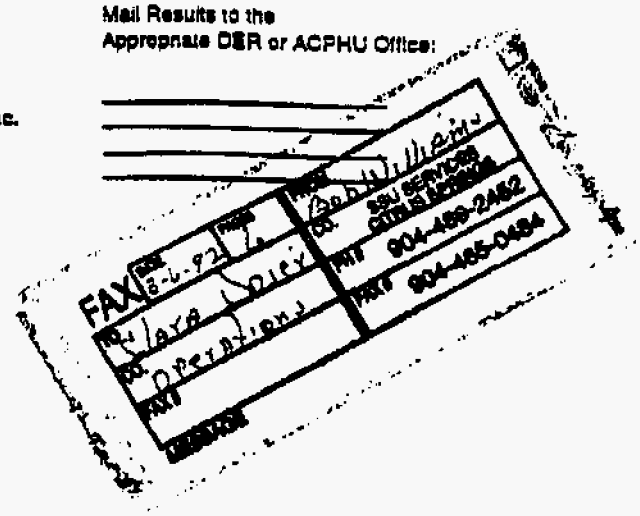
Date 11/28/89

DER /ACPHU Reviewing Offical:

PWSA.01
Effective 08/01/89

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

Mail Results to the
Appropriate DER or ACPHU Office:



Turbidity Analysis
17-550.310(2)
(PWS028)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(NTU)	Analytical Method	Det.Limit Used	Analysis Date
100	Turbidity	14501	1	0.48	EPA180.1	0.05	11/7/89

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	14501	0.05	<0.0005	EPA206.3	0.0005	11/9/89
1010	Barium	14501	1	0.01	EPA208.1	0.01	11/10/89
1015	Cadmium	14501	0.01	<0.001	EPA213.1	0.001	11/8/89
1020	Chromium	14501	0.05	<0.005	EPA218.1	0.005	11/8/89
1025	Fluoride	14501	4	0.171	EPA300.0	0.005	11/14/89
1030	Lead	14501	0.05	<0.01	EPA239.1	0.01	11/8/89
1035	Mercury	14501	0.002	<0.0002	EPA245.1	0.0002	11/10/89
1040	Nitrate (as N)	14501	10	2.480	EPA300.0	0.013	11/21/89
1045	Selenium	14501	0.01	<0.0005	EPA270.3	0.0005	11/10/89
1050	Silver	14501	0.05	<0.005	EPA272.1	0.005	11/10/89
1052	Sodium	14501	160	70.9	EPA273.1	0.002	11/7/89

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	14501	0.10	<0.001	EPA502.2	0.001	11/20/89

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	14501	.00002	<.000005	EPA504.1	.000005	11/20/89
2969	Para-dichlorobenzene	14501	.075	<0.001	EPA502.2	0.001	11/20/89
2976	Vinyl chloride	14501	0.001	<0.001	EPA502.2	0.001	11/20/89
2977	1,1-dichloroethene	14501	0.007	<0.001	EPA502.2	0.001	11/20/89

2980	1,2,-dichloroethane	14501	0.003	<0.001	EPA502.2	0.001	11/20/89
2981	1,1,1-trichloroethane	14501	0.2	<0.001	EPA502.2	0.001	11/20/89
2982	Carbon tetrachloride	14501	0.003	<0.001	EPA502.2	0.001	11/20/89
2984	Trichloroethene	14501	0.003	<0.001	EPA502.2	0.001	11/20/89
2987	Tetrachloroethene	14501	0.003	<0.001	EPA502.2	0.001	11/20/89
2990	Benzene	14501	0.001	<0.001	EPA502.2	0.001	11/20/89

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	14501	0.0002	<.000001	EPA508	.000001	11/24/89
2010	Lindane	14501	0.004	<.000001	EPA508	.000001	11/24/89
2015	Methoxychlor	14501	0.1	<0.00001	EPA508	0.00001	11/24/89
2020	Toxaphene	14501	0.005	<0.0001	EPA508	0.0001	11/24/89
2105	2,4-D	14501	0.1	<0.00005	EPA515	0.00005	11/24/89
2110	2,4,5-TP (Silvex)	14501	0.01	<0.00002	EPA515	0.00002	11/24/89

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	14501		72.5	EPA215.1	0.1	11/3/89
1017	Chloride	14501	250	11.1	EPA300.0	0.015	11/21/89
1019	Carbonate_CaCO3	14501		170.9	SM314A	0.1	
1021	Hydroxide_CaCO3	14501		0.0	SM406C	0.1	
1022	Copper	14501	1	0.0	EPA220.1	0.005	11/7/89
1023	Bicarbonate_CaCO3	14501		170.3	SM406C	0.1	
1026	Carbonate_Alkalinity	14501		0.6	SM406C	0.1	
1027	Hydrogen_Sulfide	14501		.	EPA376.1	0.5	
1028	Iron	14501	0.3	0.4	EPA236.1	0.01	11/7/89
1031	Magnesium	14501		5.6	EPA242.1	0.01	11/13/89
1032	Manganese	14501	0.05	0.026	EPA243.1	0.005	11/7/89
1055	Sulfate	14501	250	32.8	EPA300.0	0.200	11/21/89
1095	Zinc	14501	5	0.007	EPA289.1	0.001	11/6/89
1901	Carbon_Dioxide	14501		9.6	SM406C	0.1	
1905	Color	14501	15	7.5	EPA110.1	5	11/7/89
1915	Total_Hardness	14501		203.9	SM314A	0.1	
1917	NCH_as_CaCO3	14501		33.0	SM314A	0.1	
1920	Odor(TON)	14501	3	<1	EPA140.1	1	11/7/89
1924	Field_pH	14501	6.5-8.5	.	EPA150.1	0.01	
1925	Lab_pH	14501	6.5-8.5	7.5	EPA150.1	0.01	11/7/89
1927	Alkalinity	14501		170.9	EPA310.1	0.1	11/7/89
1930	TDS	14501	500	253.0	EPA160.1	2.5	11/13/89
1996	Temperature	14501		25			

1997	Langelier Index	14501	-0.2:+0.2	0.16	SM203	0.01	
1998	Saturation Index	14501		7.38	SM203	0.01	
1999	Stability Index	14501		7.22	SM203	0.01	
2909	Foaming Agents	14501	0.5	<0.1	EPA425.1	0.1	11/21/89
	Field Chlorine	14501		-	-	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	14501	5	<2	EPA900	1	11/15/89

Comments:

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

ID	Name	Number	Value	Result(mg/L)	Method	Used	Date
2210	Chloromethane	14501		<0.001	EPA502.2	0.001	11/20/89
2212	Dichlorodifluoromethane	14501		<0.001	EPA502.2	0.001	11/20/89
2214	Bromomethane	14501		<0.001	EPA502.2	0.001	11/20/89
2216	Chloroethane	14501		<0.001	EPA502.2	0.001	11/20/89
2218	Trichlorofluoromethane	14501		<0.001	EPA502.2	0.001	11/20/89
2224	trans-1,3-dichloropropene	14501		<0.001	EPA502.2	0.001	11/20/89
2228	cis-1,3-dichloropropene	14501		<0.001	EPA502.2	0.001	11/20/89
2251	Methyl-tert-butylether	14501		<0.001	EPA502.2	0.001	11/20/89
2380	cis-1,2-dichloroethene	14501		<0.001	EPA502.2	0.001	11/20/89
2408	Dibromomethane	14501		<0.001	EPA502.2	0.001	11/20/89
2410	1,1-dichloropropene	14501		<0.001	EPA502.2	0.001	11/20/89
2412	1,3-dichloropropane	14501		<0.001	EPA502.2	0.001	11/20/89
2414	1,2,3-trichloropropane	14501		<0.001	EPA502.2	0.001	11/20/89
2416	2,2-dichloropropane	14501		<0.001	EPA502.2	0.001	11/20/89
2931	1,2-dibromo-3-chloropropan	14501		<0.001	EPA502.2	0.001	11/20/89
2941	Chloroform	14501		<0.001	EPA502.2	0.001	11/20/89
2942	Bromoform	14501		<0.001	EPA502.2	0.001	11/20/89
2943	Bromodichloromethane	14501		<0.001	EPA502.2	0.001	11/20/89
2944	Dibromochloromethane	14501		<0.001	EPA502.2	0.001	11/20/89
2962	p-xylene	14501		<0.001	EPA502.2	0.001	11/20/89
2964	Methylene chloride	14501		<0.001	EPA502.2	0.001	11/20/89
2965	o-chlorotoluene	14501		<0.001	EPA502.2	0.001	11/20/89
2966	p-chlorotoluene	14501		<0.001	EPA502.2	0.001	11/20/89
2967	m-dichlorobenzene	14501		<0.001	EPA502.2	0.001	11/20/89
2968	o-dichlorobenzene	14501		<0.001	EPA502.2	0.001	11/20/89
2978	1,1-dichloroethane	14501		<0.001	EPA502.2	0.001	11/20/89
2979	trans-1,2-dichloroethylene	14501		<0.001	EPA502.2	0.001	11/20/89
2983	1,2-dichloropropane	14501		<0.001	EPA502.2	0.001	11/20/89
2985	1,1,2-trichloroethane	14501		<0.001	EPA502.2	0.001	11/20/89
2986	1,1,1,2-tetrachloroethane	14501		<0.001	EPA502.2	0.001	11/20/89
2988	1,1,2,2-tetrachloroethane	14501		<0.001	EPA502.2	0.001	11/20/89

2989	Chlorobenzene	14501	<0.001	EPA502.2	0.001	11/20/89
2991	Toluene	14501	<0.001	EPA502.2	0.001	11/20/89
2992	Ethylbenzene	14501	<0.001	EPA502.2	0.001	11/20/89
2993	Bromobenzene	14501	<0.001	EPA502.2	0.001	11/20/89
2995	m-xylene	14501	<0.001	EPA502.2	0.001	11/20/89
2996	Styrene	14501	<0.001	EPA502.2	0.001	11/20/89
2997	o-xylene	14501	<0.001	EPA502.2	0.001	11/20/89

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	14501		<0.000001	EPA515	.000001	11/24/89
2036	Oxamyl (Vydate)	14501		<0.002	EPA531	0.002	11/24/89
2037	Simazine	14501		<0.007	EPA505	0.007	11/24/89
2040	Picloram	14501		<0.00007	EPA515	0.00007	11/24/89
2041	Dinoseb	14501		<0.00001	EPA515	0.00001	11/24/89
2043	Aldicarb sulfoxide	14501		<0.002	EPA531	0.002	11/24/89
2044	Aldicarb sulfone	14501		<0.002	EPA531	0.002	11/24/89
2045	Metolachlor	14501		<0.0005	EPA505	0.0005	11/24/89
2046	Carbofuran	14501		<0.001	EPA531	0.001	11/24/89
2047	Aldicarb	14501		<0.002	EPA531	0.002	11/24/89
2050	Atrazine	14501		<0.002	EPA505	0.002	11/24/89
2051	Alachlor (Lasso)	14501		<0.0002	EPA505	0.0002	11/24/89
2065	Heptachlor	14501		<.000005	EPA508	.000005	11/24/89
2356	Aldrin	14501		<0.00007	EPA508	0.00007	11/24/89
2364	Dieldrin	14501		<0.00001	EPA508	0.00001	11/24/89
2440	Dicamba	14501		<0.00001	EPA515	0.00001	11/24/89
2959	Chlordane	14501		<0.00001	EPA508	0.00001	11/24/89
9114	Pentachlorophenol	14501		<0.005	EPA515	0.005	11/24/89

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	14501		<0.005	EPA612	0.005	11/24/89
2063	Dioxin	14501		<0.00001	EPA613	0.00001	11/24/89
2262	Isophorone	14501		<0.005	EPA609	0.005	11/24/89
2270	2,4-dinitrotoluene	14501		<0.005	EPA609	0.005	11/24/89
2282	Dimethylphthalate	14501		<0.005	EPA606	0.005	11/24/89
2284	Diethylphthalate	14501		<0.005	EPA606	0.005	11/24/89
2290	Di-n-butylphthalate	14501		<0.005	EPA606	0.005	11/24/89
2294	Butyl benzyl phthalate	14501		<0.005	EPA606	0.005	11/24/89
2258	Bis(2-ethylhexyl)phthalate	14501		<0.005	EPA606	0.005	11/24/89
2378	1,2,4-trichlorobenzene	14501		<0.005	EPA612	0.005	11/24/89

2388	PCB-1016	14501	<0.0001	EPA505	0.0001	11/24/89
2390	PCB-1221	14501	<0.0001	EPA505	0.0001	11/24/89
2392	PCB-1232	14501	<0.0001	EPA505	0.0001	11/24/89
2394	PCB-1242	14501	<0.0001	EPA505	0.0001	11/24/89
2396	PCB-1248	14501	<0.0001	EPA505	0.0001	11/24/89
2398	PCB-1254	14501	<0.0001	EPA505	0.0001	11/24/89
2400	PCB-1260	14501	<0.0001	EPA505	0.0001	11/24/89
9089	Dioctylphthalate	14501	<0.005	EPA606	0.005	11/24/89

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	14501		<0.005	EPA604	0.005	11/24/89
9112	2-methyl-4,6-dinitrophenol	14501		<0.005	EPA604	0.005	11/24/89
9116	Phenol	14501		<0.005	EPA604	0.005	11/24/89
9118	2,4,6-trichlorophenol	14501		<0.005	EPA604	0.005	11/24/89

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
Gulf Coast Water Labs
5356 Hwy 19 S.
Hudson, Fla. 33691
Lab No#: 2399 John Rankin
12/4/91 1:30 pm

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Point & Woods SYSTEM I.D. NO: 6091422 SYSTEM PHONE #: 904 489 24[illegible]
ADDRESS: [illegible] COUNTY: [illegible] DER DISTRICT: SWD
COLLECTOR: [illegible] COLLECTOR PHONE #: 904-489-2[illegible]
SAMPLE SITE (Locality or Subdivision): Point & Woods
DATE AND TIME COLLECTED: 12 4 91 9:45 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 (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.	SAMPLE POINT (Specific Address)	Cl RES'D	pH	SAMPLE NUMBER	NON COLIFORM	*TOTAL	CONFIRM TOTAL	CONFIRM FECAL
14	Well 1	0	7.4	2691 A	M	A		
15	Well 2	0	7.4	2691 B		A		
16	Storage Tank	2.5	7.5	2691 C		A		
17	Lot 27-A Espalier Ct	0.8	7.5	2691 D	L	A		
18	8 Heron Creek Loop	0.8	7.5	2691 E	L	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 855, Jan 87 (Stock Number: 5740-855-4) obsolete previous editions which may be used)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

Citrus Springs Utilities
PO Box 217
Dunnellon FL
32630

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

REVIEWING OFFICIAL: [signature]
TITLE: EHS

Pomona Park - 443

Putnam County (SSU)

Water

- 1992 FPSC Filing -

Pomona 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	1/89
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

SSU 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 3

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.

Jeffrey S. Flowers, Ph.D.
Technical Director

Jeffrey L. Flowers, Ph.D.
Jeffrey S. Flowers, Ph.D.
401 NEWPORT CIR
P.O. BOX 150 527
ALTAMONTE SPRINGS
FLORIDA 32715 0527
BUS (407) 331 7734
FAX (407) 331 7735

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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 T. Flowers Ph.D.
P.O. BOX [illegible]
ALTAMONTE [illegible]
FLORIDA 32715-0527
BUS [illegible]
FAX [illegible]

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.
481 NEWBERRY ST
P.O. BOX 551522
ALTAMONTE SPRINGS
FLORIDA 32715-0492
BUS (407) 331-1144
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 891028
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.
483 NEWPORT CIRCLE
P.O. BOX 150 5??
ALTAMONTE SPRINGS
FLORIDA 32715-0502
BUS (407) 339-????
FAX (407) 260-????

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name ___Panama Park
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 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? (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	16155	.00002	<0.000005	EPA504.1	.000005	2/19/91
2969	Para-dichlorobenzene	16155	.075	<0.001	EPA502.2	0.001	2/13/91
2976	Vinyl chloride	16155	0.001	<0.001	EPA502.2	0.001	2/13/91
2977	1,1-dichloroethene	16155	0.007	<0.001	EPA502.2	0.001	2/13/91
2980	1,2-dichloroethane	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2981	1,1,1-trichloroethane	16155	0.2	<0.001	EPA502.2	0.001	2/13/91
2982	Carbon tetrachloride	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2984	Trichloroethene	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2987	Tetrachloroethene	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2990	Benzene	16155	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	16155		<0.001	EPA502.2	0.001	2/13/91
2212	Dichlorodifluoromethan	16155		<0.001	EPA502.2	0.001	2/13/91
2214	Bromomethane	16155		<0.001	EPA502.2	0.001	2/13/91
2216	Chloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2218	Trichlorofluoromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2224	trans-1,3,-dichloroprop	16155		<0.001	EPA502.2	0.001	2/13/91
2228	cis-1,3-dichloropropene	16155		<0.001	EPA502.2	0.001	2/13/91
2251	Methyl-tert-butylether	16155		<0.001	EPA502.2	0.001	2/13/91
2380	cis-1,2-dichloroethene	16155		<0.001	EPA502.2	0.001	2/13/91
2408	Dibromomethane	16155		<0.001	EPA502.2	0.001	2/13/91
2410	1,1-dichloropropene	16155		<0.001	EPA502.2	0.001	2/13/91
2412	1,3-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2414	1,2,3-trichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2416	2,2-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2931	1,2-dibromo-3-chloropr	16155		<0.001	EPA502.2	0.001	2/13/91
2941	Chloroform	16155		<0.001	EPA502.2	0.001	2/13/91
2942	Bromoform	16155		<0.001	EPA502.2	0.001	2/13/91
2943	Bromodichloromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2944	Dibromochloromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2962	p-xylene	16155		<0.001	EPA502.2	0.001	2/13/91
2964	Methylene chloride	16155		<0.001	EPA502.2	0.001	2/13/91
2965	o-chlorotoluene	16155		<0.001	EPA502.2	0.001	2/13/91
2966	p-chlorotoluene	16155		<0.001	EPA502.2	0.001	2/13/91
2967	m-dichlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2968	o-dichlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2978	1,1-dichloroethene	16155		<0.001	EPA502.2	0.001	2/13/91
2979	trans-1,2-dichloroethyl	16155		<0.001	EPA502.2	0.001	2/13/91
2983	1,2-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2985	1,1,2-trichloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2986	1,1,1,2-tetrachloroetha	16155		<0.001	EPA502.2	0.001	2/13/91
2988	1,1,2,2-tetrachloroetha	16155		<0.001	EPA502.2	0.001	2/13/91
2989	Chlorobenzene	16155		<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	16155		<0.001	EPA502.2	0.001	2/13/91
2992	Ethylbenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2993	Bromobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2995	m-xylene	16155		<0.001	EPA502.2	0.001	2/13/91
2996	Styrene	16155		<0.001	EPA502.2	0.001	2/13/91
2997	o-xylene	16155		<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	16155		<0.000001	EPA515	.000001	2/21/91
2036	Oxamyl (Vydate)	16155		<0.002	EPA531	0.002	2/18/91
2037	Simazine	16155		<0.007	EPA505	0.007	2/21/91
2040	Picloram	16155		<0.00007	EPA515	0.00007	2/21/91
2041	Dinoseb	16155		<0.00001	EPA515	0.00001	2/21/91
2043	Aldicarb sulfoxide	16155		<0.002	EPA531	0.002	2/18/91
2044	Aldicarb sulfone	16155		<0.002	EPA531	0.002	2/18/91
2045	Metolachlor	16155		<0.0005	EPA505	0.0005	2/21/91
2046	Carbofuran	16155		<0.001	EPA531	0.001	2/18/91
2047	Aldicarb	16155		<0.002	EPA531	0.002	2/18/91
2050	Atrazine	16155		<0.002	EPA505	0.002	2/21/91
2051	Alachlor (Lasso)	16155		<0.0002	EPA505	0.0002	2/21/91
2065	Heptachlor	16155		<.000005	EPA508	.000005	2/21/91
2356	Aldrin	16155		<0.00007	EPA508	0.00007	2/21/91
2364	Dieldrin	16155		<0.00001	EPA508	0.00001	2/21/91
2440	Dicamba	16155		<0.00001	EPA515	0.00001	2/21/91
2959	Chlordane	16155		<0.00001	EPA508	0.00001	2/21/91
9114	Pentachlorophenol	16155		<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	16155		<0.001	EPA508	0.001	2/21/91
2063	Dioxin	16155		<0.00001	EPA613	0.00001	2/21/91
2262	Isophorone	16155		<0.001	EPA609	0.001	2/14/91
2270	2,4-dinitrotoluene	16155		<0.001	EPA609	0.001	2/14/91
2282	Dimethylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2284	Diethylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2290	Di-n-butylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2294	Butyl benzyl phthalate	16155		<0.001	EPA606	0.001	2/14/91
2298	Bis(2-ethylhexyl)phthal	16155		<0.001	EPA606	0.001	2/14/91
2378	1,2,4-trichlorobenzene	16155		<0.001	EPA612	0.001	2/14/91
2388	PCB-1016	16155		<0.0001	EPA505	0.0001	2/21/91
2390	PCB-1221	16155		<0.0001	EPA505	0.0001	2/21/91
2392	PCB-1232	16155		<0.0001	EPA505	0.0001	2/21/91
2394	PCB-1242	16155		<0.0001	EPA505	0.0001	2/21/91
2396	PCB-1248	16155		<0.0001	EPA505	0.0001	2/21/91
2398	PCB-1254	16155		<0.0001	EPA505	0.0001	2/21/91

2400	PCB-1260	16155		<0.0001	EPA505	0.0001	2/21/91
9089	Dioctylphthalate	16155		<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	16155		<0.001	EPA604	0.001	2/14/91
9112	2-methyl-4,6-dinitrophe	16155		<0.001	EPA604	0.001	2/14/91
9115	Phenol	16155		<0.001	EPA604	0.001	2/14/91
9116	2,4,6-trichlorophenol	16155		<0.001	EPA604	0.001	2/14/91

Comments:

To: Jim Meyer, FGT

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	Ramona 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 4143.

Thank you,

Paul D. Thompson
Lead Operator, Putnam County
GGU Services

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 158
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: P51028
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E93019
NCDEHNR Lab# : 294
SCDHEC Lab# : 96019

For: ?
Date Received: Apr17 1991 Lab Number : 16691

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16691
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 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 Pomona Park
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 16691
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	16691	.00002	<.000005	EPA504.1	.000005	4/26/91
2969	Para-dichlorobenzene	16691	.075	<0.001	EPA502.2	0.001	4/25/91
2976	Vinyl chloride	16691	0.001	<0.001	EPA502.2	0.001	4/25/91
2977	1,1-dichloroethene	16691	0.007	<0.001	EPA502.2	0.001	4/25/91
2980	1,2-dichloroethane	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2981	1,1,1-trichloroethane	16691	0.2	<0.001	EPA502.2	0.001	4/25/91
2982	Carbon tetrachloride	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2984	Trichloroethene	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2987	Tetrachloroethene	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2990	Benzene	16691	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 # : 91-07-476
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 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 # 91-07-176

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

SAMPLE# 010
MATRIX WATER
TEST CODE 1LOMP

NUMBER OF SAMPLES COMPOSITED:

	Sample Identification	Date and time
#1	Pamona Park	07/30/91
#2	Hermits Cove	07/30/91
#3	Palm Port	07/30/91
#4	River Grove	07/30/91
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-476

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
2991	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:

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-178

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

SAMPLE# 024
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	08/01/91
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.

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	47	47 *	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: Pomona Park
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: 91-07-476-01A
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 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 3 of 5

1 INVOICE TO: (COMPANY AND INDIVIDUAL)	ADDRESS (CITY, STATE, ZIP)	2 CONTACT PERSON/PHONE # INVOICE	3 OLI WORK ORDER # (LAB USE)
SSU SERVICES	1000 COLOR PLACE APOPKA, FL		9107476
4 ORIGINAL REPORT TO: (COMPANY AND INDIVIDUAL - EMAIL)	**ADDRESS (CITY, STATE, ZIP)**	**CONTACT PERSON/PHONE # REPORT**	**RB NUMBER (LAB USE) 6**
SSU SERVICES	P.O. BOX 458 POMONA PARK, FL 32181	PAUL THOMPSON	
(OPTIONAL) ADDITIONAL REPORTS SENT TO 7	ADDRESS (CITY, STATE, ZIP)		
CLIENT PROJECT NAME 8	CLIENT PROJECT # 9		

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
# 2540905 POMONA PARK	7-30-91		✓				WELLS	8	✓	
# 2540882 HERMITS COVE	7-30-91		✓				WELLS	4	✓	
# 2540845 ATLAS MOBILE	7-30-91		✓				WELLS	4	✓	
# 2540959 RIVER BEND	7-30-91		✓				WELLS	4	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	PAUL O. THOMPSON	7/11/91 8:00AM	Ron Bangor
2nd	Ron Bangor	7/31 1100	Deedee Homan
3rd			

20 ADDITIONAL REMARKS

COOLER # 21

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

0907

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 # : 91-10-433
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

DELAWARE LABORATORIES, INC. REPORT OF ANALYSIS Work Order # 91 10 [illegible]
Received: 10/30/91 Results by Sample

SAMPLE ID Composite #1 SAMPLE# 01A
DATE COLLECTED not specified MATRIX WATER
TEST NAME Composite Data For Samples TEST CODE JCOMP

NUMBER OF SAMPLES COMPOSITED:

	Sample Identification	Date and time
#1	PAMONA PARK (1 & 2)	10/30/91 13:15
#2	HERMITS COVE (3)	10/30/91 10:40
#3	PALM PORT (4)	10/30/91 09:10
#4	RIVER GROVE (5)	10/30/91 10:10
#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]

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

SAMPLE# 010
MATRIX WATER
TEST CODE PW5028

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 # 0.0
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: 2540905
Public Water System Name: Pomona 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: 91-10-433
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 E. 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

0915

ORLANDO LABORATORIES, INC
P.O. Box 1487[illegible] Orlando, FL 32814
407 894-6641 FAX (407) 896-6568

CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ___ of ___

SSU SERVICES P.O. BOX 458 POMONA PARK FL 32181		911433
ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY STATE ZIP): SAME	PAUL D. THOMPSON	5587
(OPTIONAL) ADDITIONAL REPORTS SENT TO / ADDRESS (CITY STATE ZIP)		
CLIENT PROJECT NAME	~~CLIENT PROJECT~~ PO# L11442	

	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS VOC	REMARKS
1-2	POMONA PARK	10/28/91	1:15		X	X			WELL	8	X	
3	HERMITS COVE	10/28/91	10:40		X	X			WELL	4	X	
4	PALM PORT	10/28/91	9:10		X	X			WELL	4	X	
5	RIVER GROVE	10/28/91	10:10		X	X			WELL	4	X	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY
1st	[signature]	10/28 1440	Ron Bamford
2nd	Ron Bamford	10-30 16:30	Ruth Jemsick
3rd			

ADDITIONAL REMARKS

COOLER #s

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

ORLANDO LABORATORIES INC

P.O. Box 149127 • Orlando, Florida 32814 • (407) 896-6645

Plant #443

REPORT OF ANALYSIS

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

Report #: 2001 (89-01-135)
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: Pomona Park - 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.

Laboratory Manager

Quality Control

OL1 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 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)	1.6	†	EPA 900.0	pCi/l
Counting error (Storet #01502)	± 1.4	†	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	<0.03
Fluoride, F	4.0	<0.1

"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	5.73	EPA 200.7
Total Dissolved Solids	166	EPA 160.1
Corrosivity	0.1	EPA 110
Phenolphthalein Alkalinity	0	EPA 310.1
Total Alkalinity	120	EPA 310.1
Carbonate Alkalinity	0	EPA 310.1
Bicarbonate Alkalinity	120	EPA 310.1
Carbonates	0	Calculation
Turbidity, NTU	1.2	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)	12	mg/l
Color	(15)	5	PCU
Foaming Agents, (MBAS)	(0.5)	<0.1	mg/l
Sulfate, SO_4	(250)	4.3	mg/l
Total Dissolved Solids	(500)	180	mg/l
pH (Laboratory)	(6.5-8.5)	8.1	units
Odor Threshold	(3)	1	----
Fluoride, F	(2)	<0.1	mg/l
Copper, Cu	(1.0)	<0.010	mg/l
Iron, Fe	(0.3)	0.225	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, $CaCO_3$		110	mg/l
Carbonate Alkalinity, $CaCO_3$		0	mg/l
Bicarbonate Alkalinity, $CaCO_3$		110	mg/l
Carbonates, $CaCO_3$		0	mg/l
Bicarbonates, HCO_3		130	mg/l
Hydroxides, as OH		0	mg/l
Carbon Dioxide, CO_2		1.8	mg/l
pHs		7.8	----
Stability Index		7.5	----
Specific Conductance		230	umhos
Hydrogen Sulfide, H_2S		<0.1	mg/l
Nitrate Nitrogen, NO_3-N		<0.03	mg/l
Total Hardness, $CaCO_3$		113	mg/l
Magnesium Hardness, $CaCO_3$		14.2	mg/l
Calcium Hardness, $CaCO_3$		99.1	mg/l
Calcium, Ca		39.7	mg/l
Magnesium, Mg		3.45	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	<1	01-27-89	J.C.
Chromium	6	01-20-89	C.G.
Lead	7	01-27-89	J.C.
Mercury	<1	01-30-89	J.C.
Selenium	3	01-23-89	C.G.
Silver	<1	01-27-89	A.H.
Calcium	<1	01-23-89	A.H.
Magnesium	1	01-23-89	A.H.
Iron	1	01-23-89	A.H.
Manganese	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	3	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	103	01-27-89	J.H.
Chromium	107	01-20-89	C.G.
Lead	99	01-27-89	J.C.
Mercury	94	01-30-89	J.C.
Selenium	101	01-23-89	C.G.
Silver	94	01-27-89	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	108	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	98/97	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. 13003
DEC 4 1 57 PM '91
BY: G. FALCANIS
12/5

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Pomona Park SYSTEM I.D. NO: 2540905 SYSTEM PHONE #: 649-4143
ADDRESS: Church St. COUNTY: Putnam DER DISTRICT: 2
COLLECTOR: R Fauscett COLLECTOR PHONE #: 649-4143
SAMPLE SITE (Locality or Subdivision): Subdivision
DATE AND TIME COLLECTED: 12/4/91 11:30

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) (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
1	Well #1	-	7.6	0[illegible]46	M	A		
2	Well #2	-	7.6	0[illegible]647	M	A		
3	Dist 1 (Lot 4 [illegible])	2		0[illegible]8		A		
4	Dist 2 (308 N. Main St.)	2		0[illegible]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

[illegible]rriguez, 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 888, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5740-000-0888-4)

Postmaster Village - 1095

Clay County (SSU)

Water

- 1992 FPSC Filing -

Postmasters 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	1/91
Organic	1/91
Volatile Organic Chemicals	1/91
	4/91
	7/91
	10/91
Turbidity	1/91
Microbiological	12/91
Radionuclide	2/88
Secondary Contaminants	1/91
Unregulated Contaminants	1/91

SSU SERVICES

Keystone Heights Office
480 S. Lawrence Blvd.
Keystone Heights, FL 32656
(904) 473-4804

February 28, 1991

Ms. Vicki Stanford
Florida Department of Environmental Regulation
N. E. District: St. Johns River Subdistrict
7825 Baymeadows Way, Suite B-200
Jacksonville, FL 32256-7577

Dear Ms. Stanford:

Enclosed are copies of lab results for the following: Geneva Lake Estates, #2041320 -- Primary Orangics; and Postmasters Village, #2100912 -- Primary Orangics, Primary Inorganics, Secondary Standards and Turbidity.

The analysis for Volatile and Unregulated Contaminants was completed for the plants listed below:

Keystone Heights	#2100610
Keystone Club Estates	#2040412
Geneva Lake Estates	#2041320
Postmasters Village	#2100912
Lakeview Villa	#2104350

Sincerely,

Ken Kerlin
Lead Operator

Encs.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 705
Keystone,FL 32656

Date Reported: Feb19 1991
PO Number: Clay/Bradford
PO Number B91049

FDHRS Lab# : 93139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 6-9
Date Received: Jan24 1991 Lab Number : 16081

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16081
Ethylene dibromide	mg/L	0.000005	91.6	5.28	<0.000005
Para-dichlorobenzene	mg/L	0.001	95.7	1.65	<0.001
Vinyl chloride	mg/L	0.001	96.2	1.51	<0.001
1,1-dichloroethene	mg/L	0.001	95.2	1.78	<0.001
1,2-dichloroethane	mg/L	0.001	90.7	1.78	<0.001
1,1,1-trichloroethan	mg/L	0.001	95.2	1.78	<0.001
Carbon tetrachloride	mg/L	0.001	96.2	1.51	<0.001
Trichloroethene	mg/L	0.001	96.2	1.51	<0.001
Tetrachloroethene	mg/L	0.001	94.3	2.04	<0.001
Benzene	mg/L	0.001	87.1	1.52	<0.001
Chloromethane	mg/L	0.001	103	2.04	<0.001
Dichlorodifluorometh	mg/L	0.001	89.0	.994	<0.001
Bromomethane	mg/L	0.001	103	2.04	<0.001
Chloroethane	mg/L	0.001	85.2	2.05	<0.001
Trichlorofluorometha	mg/L	0.001	89.0	.994	<0.001
trans-1,3,-dichlorop	mg/L	0.001	88.2	.481	<0.001
cis-1,3-dichloroprop	mg/L	0.001	90.8	1.32	<0.001
Methyl-tert-butyleth	mg/L	0.001	101	.871	<0.001
cis-1,2-dichloroethe	mg/L	0.001	90.8	1.32	<0.001
Dibromomethane	mg/L	0.001	103	2.04	<0.001
1,1-dichloropropene	mg/L	0.001	96.1	2.9	<0.001
1,3-dichloropropane	mg/L	0.001	88.2	.481	<0.001
1,2,3-trichloropropa	mg/L	0.001	102	4.20	<0.001
2,2-dichloropropane	mg/L	0.001	85.2	2.05	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	102	4.20	<0.001
Chloroform	mg/L	0.001	89.7	1.56	<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.

RECEIVED
MAR 0 8 1991
ACCOUNTS PAYABLE

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
TEL: (407) 339-5984
FAX: (407) 260-6190

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 705
Keystone,FL 32656

Date Reported: Feb19 1991
PO Number: Clay/Bradford
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 6-9
Date Received: Jan24 1991 Lab Number : 16081

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16081
Bromoform	mg/L	0.001	97.5	2.22	<0.001
Bromodichloromethane	mg/L	0.001	91.6	1.68	<0.001
Dibromochloromethane	mg/L	0.001	98.4	2.09	<0.001
p-xylene	mg/L	0.001	91.6	1.68	<0.001
Methylene chloride	mg/L	0.001	103	2.04	<0.001
o-chlorotoluene	mg/L	0.001	87.6	1.1	<0.001
p-chlorotoluene	mg/L	0.001	105	2.79	<0.001
m-dichlorobenzene	mg/L	0.001	91.6	1.96	<0.001
o-dichlorobenzene	mg/L	0.001	93.7	3.86	<0.001
1,1-dichloroethane	mg/L	0.001	82.9	1.48	<0.001
trans-1,2-dichloroet	mg/L	0.001	92.4	0.8	<0.001
1,2-dichloropropane	mg/L	0.001	92.1	.860	<0.001
1,1,2-trichloroethan	mg/L	0.001	97.7	2.14	<0.001
1,1,1,2-tetrachloroe	mg/L	0.001	89.8	1.1	<0.001
1,1,2,2-tetrachloroe	mg/L	0.001	92.5	1.34	<0.001
Chlorobenzene	mg/L	0.001	92.3	.265	<0.001
Toluene	mg/L	0.001	105	2.79	<0.001
Ethylbenzene	mg/L	0.001	87.2	2.01	<0.001
Bromobenzene	mg/L	0.001	92.3	.265	<0.001
m-xylene	mg/L	0.001	91.6	1.68	<0.001
Styrene	mg/L	0.001	105	2.79	<0.001
o-xylene	mg/L	0.001	91.6	1.68	<0.001
Dalapon	mg/L	0.000001	122	12.0	<0.000001
Oxamyl (Vydate)	mg/L	0.002	89.5	3.16	<0.002
Simazine	mg/L	0.007	101	0.83	<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) 339-5984
FAX (407) 260-6110

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 705
Keystone,FL 32656

Date Reported: Feb19 1991
PO Number: Clay/Bradford
PO Number
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 6-9
Date Received: Jan24 1991 Lab Number : 16081

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16081
Dinoseb	mg/L	0.00001	118	10.0	<0.00001
Aldicarb sulfoxide	mg/L	0.002	95.0	2.23	<0.002
Aldicarb sulfone	mg/L	0.002	100	3.16	<0.002
Metolachlor	mg/L	0.0005	108	4.60	<0.0005
Carbofuran	mg/L	0.001	96.0	1.06	<0.001
Aldicarb	mg/L	0.002	97.7	2.04	<0.002
Atrazine	mg/L	0.002	101	0.7	<0.002
Alachlor (Lasso)	mg/L	0.0002	107	3.91	<0.0002
Heptachlor	mg/L	0.000005	107	3.99	<0.000005
Aldrin	mg/L	0.00007	109	5.35	<0.00007
Dieldrin	mg/L	0.00001	107	4.3	<0.00001
Dicamba	mg/L	0.00001	128	15.1	<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	91.4	5.2	<0.001
Dioxin	mg/L	0.00001	97.7	3.8	<0.00001
Isophorone	mg/L	0.001	99	1.4	<0.001
2,4-dinitrotoluene	mg/L	0.001	103	3.5	<0.001
Dimethylphthalate	mg/L	0.001	100	0.3	<0.001
Diethylphthalate	mg/L	0.001	98.6	2	<0.001
Di-n-butylphthalate	mg/L	0.001	101	0.8	<0.001
Butyl benzyl phthala	mg/L	0.001	97.7	3.4	<0.001
Bis(2-ethylhexyl)pht	mg/L	0.001	99.2	1.1	<0.001
1,2,4-trichlorobenze	mg/L	0.001	99.7	0.4	<0.001
PCB-1016	mg/L	0.0001	99.2	3.7	<0.0001
PCB-1221	mg/L	0.0001	93.5	4	<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
PO Box 705
Keystone,FL 32656

Date Reported: Feb19 1991
PO Number: Clay/Bradford
PO Number
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 6-9
Date Received: Jan24 1991 Lab Number : 16081

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16081
PCB-1232	mg/L	0.0001	96.0	2.4	<0.0001
PCB-1242	mg/L	0.0001	93.0	4.2	<0.0001
PCB-1248	mg/L	0.0001	99.7	3.4	<0.0001
PCB-1254	mg/L	0.0001	106	3.2	<0.0001
PCB-1260	mg/L	0.0001	94.0	3.7	<0.0001
Dioctylphthalate	mg/L	0.001	98.9	1.6	<0.001
2-chlorophenol	mg/L	0.001	101	2.1	<0.001
2-methyl-4,6-dinitop	mg/L	0.001	106	7.5	<0.001
Phenol	mg/L	0.001	84.1	27	<0.001
2,4,6-trichloropheno	mg/L	0.001	93.3	10	<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.

Jeffrey S. Flowers, Ph.D.
Technical Director

Johnson 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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: SEE ATTACHED LIST
Public Water System Name SEE ATTACHED LIST
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 16080
Sample Location (be specific): Hose bibb at well
Sample Type (check all applicable):
(X)Check ( )Regular Distribution ( )Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(X)Raw ( )Well ( )Resampl
(X)Special Analysis every 36 months.
Sampler Name: Title Phone:
R. Kuhn - Lead Operator - 304-473-4804

ANALYSIS INFORMATION
Extraction Date 2/1/91
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 2/18/91

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

SSU SERVICES

P. O. Box 705, Keystone Heights, FL 32656

SAMPLES #1 and #2

I.D. Number: 2100610
System Name: Keystone Heights

SAMPLES #3 and #4

I.D. Number: 2040412
System Name: Keystone Club Estates

SAMPLE #5

I.D. Number: 2104350
System Name: Lakeview Villa

SAMPLES #6 and #7

I.D. Number: 2041320
System Name: Geneva Lake Estates

SAMPLES #8 and #9

I.D. Number: 2100912
System Name: Postmasters Village

Postmasters FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
PO Box 705
Keystone,FL 32656

Date Reported: Feb11 1991
PO Number: Postmasters
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#1
Date Received: Jan24 1991 Lab Number : 16082

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16082
Turbidity	NTU	0.05	105	.000	1.6
Arsenic	mg/L	0.0005	90.7	.202	0.000788
Barium	mg/L	0.01	98.0	1.91	0.36
Cadmium	mg/L	0.001	101	.436	<0.001
Chromium	mg/L	0.005	98.8	1.14	<0.005
Fluoride	mg/L	0.05	109	1.52	0.129
Lead	mg/L	0.01	258	1.19	<0.01
Mercury	mg/L	0.0002	99.0	1.29	<0.0002
Nitrate(as N)	mg/L	0.01	96.6	3.31	0.63
Selenium	mg/L	0.0005	93.8	8.68	<0.0005
Silver	mg/L	0.005	98.8	.358	<0.005
Sodium	mg/L	0.002	102	1.75	5.95
Endrin	mg/L	0.000001	108	4.81	<0.000001
Lindane	mg/L	0.000001	107	4.13	<0.000001
Methoxychlor	mg/L	0.00001	97.2	2.56	<0.00001
Toxaphene	mg/L	0.0001	94.1	3.53	<0.0001
2,4-D	mg/L	0.00005	108	4.49	<0.00005
2,4,5-TP (Silvex)	mg/L	0.00002	91.6	5.09	<0.00002
Calcium	mg/L	0.1	102	.210	32.8
Chloride	mg/L	0.015	99.7	14.3	8.96
Carbonate_CaCO3	mg/L	0.1			90.5
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	98.9	1.23	<0.005
Bicarbonate _CaCO3	mg/L	0.1			90.4
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. Parsons, Ph.D.
Jefferson S. Parsons, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-6984
FAX (407) 260-6110

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 705
Keystone,FL 32656

Date Reported: Feb11 1991
PO Number: Postmasters
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#1
Date Received: Jan24 1991 Lab Number : 16082

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16082
Iron	mg/L	0.01	103	.534	0.295
Magnesium	mg/L	0.01	101	.762	7.05
Manganese	mg/L	0.005	100	2.51	0.007
Sulfate	mg/L	0.5	94.1	-	4.4
Zinc	mg/L	0.001	102	.857	0.015
Carbon_Dioxide	mg/L	0.1			14.6
Color	mg/L	5	-	.000	10
Total_Hardness	mg/L	0.1			110.8
NCH_as_CaCO3	mg/L	0.1			20.3
Odor(TON)	TON	1	-	.000	2
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	100	.693	7.09
Alkalinity	mg/L	0.1	-	4.63	90.5
TDS	mg/L	2.5	100	.165	137
Temperature	oC	1			25
Langelier_Index	LX	0.01			-0.88
Saturation_Index	pHs	0.01			7.97
Stability_Index	pH	0.01			8.85
Foaming_Agents	mg/L	0.1	102	.900	<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) 260-6110

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	16082	1	1.60	EPA180.1	0.05	1/25/91

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	16082	0.05	.000788	EPA206.3	0.0005	1/31/91
1010	Barium	16082	1	.360	EPA208.1	0.01	1/30/91
1015	Cadmium	16082	0.01	<0.001	EPA213.1	0.001	1/25/91
1020	Chromium	16082	0.05	<0.005	EPA218.1	0.005	1/25/91
1025	Fluoride	16082	4	.129	EPA340.1	0.05	1/29/91
1030	Lead	16082	0.05	<0.01	EPA239.1	0.01	1/30/91
1035	Mercury	16082	0.002	<0.0002	EPA245.1	0.0002	1/25/91
1040	Nitrate(as N)	16082	10	.630	EPA353.1	0.01	01-25-91
1045	Selenium	16082	0.01	<0.0005	EPA270.3	0.0005	2/5/91
1050	Silver	16082	0.05	<0.005	EPA272.1	0.005	1/28/91
1052	Sodium	16082	160	5.95	EPA273.1	0.002	1/29/91

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	16082	0.0002	<.000001	EPA508	.000001	2/5/91
2010	Lindane	16082	0.004	<.000001	EPA508	.000001	2/5/91
2015	Methoxychlor	16082	0.1	<0.00001	EPA508	0.00001	2/5/91
2020	Toxaphene	16082	0.005	<0.0001	EPA508	0.0001	2/5/91
2105	2,4-D	16082	0.1	<0.00005	EPA515	0.00005	2/11/91
2110	2,4,5-TP (Silvex)	16082	0.01	<0.00002	EPA515	0.00002	2/11/91

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	16082		32.8	EPA215.1	0.1	2/5/91
1017	Chloride	16082	250	8.96	EPA300.0	0.015	01-29-91
1019	Carbonate_CaCO3	16082		90.5	SM314A	0.1	2/5/91
1021	Hydroxide_CaCO3	16082		0.0	SM406C	0.1	2/5/91

1022	Copper	16082	1	<0.005	EPA220.1	0.005	1/25/91
1023	Bicarbonate CaCO3	16082		90.4	SM406C	0.1	2/5/91
1026	Carbonate Alkalinity	16082		0.1	SM406C	0.1	2/5/91
1027	Hydrogen Sulfide	16082			EPA376.1	0.5	
1028	Iron	16082	0.3	.295	EPA236.1	0.01	1/29/91
1031	Magnesium	16082		7.05	EPA242.1	0.01	2/5/91
1032	Manganese	16082	0.05	.00700	EPA243.1	0.005	1/29/91
1055	Sulfate	16082	250	4.4	EPA375.2	0.5	2/4/91
1095	Zinc	16082	5	.0150	EPA289.1	0.001	1/25/91
1901	Carbon Dioxide	16082		14.6	SM406C	0.1	2/5/91
1905	Color	16082	15	10.0	EPA110.1	5	1/30/91
1915	Total Hardness	16082		110.8	SM314A	0.1	2/5/91
1917	NCH as CaCO3	16082		20.3	SM314A	0.1	2/5/91
1920	Odor(TON)	16082	3	2.00	EPA140.1	1	1/30/91
1924	Field pH	16082	6.5-8.5		EPA150.1	0.01	
1925	Lab pH	16082	6.5-8.5	7.09	EPA150.1	0.01	1/29/91
1927	Alkalinity	16082		90.5	EPA310.1	0.1	1/29/91
1930	TDS	16082	500	137	EPA160.1	2.5	2/1/91
1996	Temperature	16082		25	-		1 2/5/91
1997	Langelier Index	16082	-0.2:+0.2	-0.88	SM203	0.01	2/5/91
1998	Saturation Index	16082		7.97	SM203	0.01	2/5/91
1999	Stability Index	16082		8.85	SM203	0.01	2/5/91
2909	Foaming Agents	16082	0.5	<0.1	EPA425.1	0.1	1/24/91
	Field Chlorine	16082			-	0.1	

Comments:

S S U SERVICES

[redacted]

CHEMICAL LABORATORIES

Note: MAILING ADDRESS FOR REPORTS:
S.S.U. SERVICES
P.O. BOX 705
KEYSTONE HEIGHTS, FLA. 32656

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

(1) Client	(2) Address	(3) Phone
SSU	490 S. Lawrence Blvd. Keystone Hts. FL 32656	(904) 473-4804

(4) Public Drinking Water ID # 2100912 (5) Public Water System Name: POSTMASTERS - WELL #1

(6) Project # Postmasters Village (6) Public Water System Type

(7) PO# (X) Community ( ) Non-Community ( ) Special Non-Community

(9)	Preservative				Plastic Containers						Glass Containers						NOTES:
		HNO3	ZnOAc+NaOH		60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	(8) Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 2 Working Days: ___ 1 Working Day: ___ Other: ___
1	Tap	X						X	X					X	X		
2		X						X	X								
3											X						

(10) Kit Relinquished: (10) Date (10) Time

(11) Kit Received (11) Date (11) Time

12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 1 DATE 23 YEAR 91
SAMPLE TYPE (check all applicable); (+) check, (-) regular distribution
( ) composite, ( ) clearance, ( ) max residence time, ( ) plant tap,
( ) raw, ( ) well, (+) resample ____, ( ) special ____
SAMPLER'S NAME: KEN KERLIN TITLE: OPERATOR PHONE: 904-473-4804
SAMPLER'S SIGNATURE: Ken Kerlin

NOTES:
ANALYSIS FOR WELL #1
Primary Organics (Chlorinated Hydrocarbons & Chlorophenoxys)
Primary Inorganics
Secondaries
① Radionuclide

(13) 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__

(14) Laboratory Number	(15) Client Sample Identification
11085	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	Ken Kerlin	1-23-91	2:00
(17) Transporters Signature:	[redacted]	1-24-91	9:45
(19) Lab Acceptance By:		1/24/91	

OVER FOR INSTRUCTIONS FOR COMPLETION

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
490 S.LaurenceBlvd.
Keystone,FL 32656

Date Reported: Apr25 1991
PO Number: B91049

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

For: 6,7,8,&9
Date Received: Aprie 1991 Lab Number : 16651

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16651
Ethylene dibromide	mg/L	0.000005	94.8	7.15	<0.000005
Para-dichlorobenzene	mg/L	0.001	118	1.42	<0.001
Vinyl chloride	mg/L	0.001	100	2.58	<0.001
1,1-dichloroethene	mg/L	0.001	100	2.58	<0.001
1,2-dichloroethane	mg/L	0.001	111	.663	<0.001
1,1,1-trichloroethan	mg/L	0.001	102	1.69	<0.001
Carbon tetrachloride	mg/L	0.001	105	2.16	<0.001
Trichloroethene	mg/L	0.001	100	.545	<0.001
Tetrachloroethene	mg/L	0.001	106	1.08	<0.001
Benzene	mg/L	0.001	104	.730	<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 2 of 2

Jefferson L. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
481 NEWBURYPORT
P.O. BOX 160-597
ALTAMONTE SPRINGS
FLORIDA 32716-0597
BUS (407) 339-6984
FAX (407) 260-6140

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

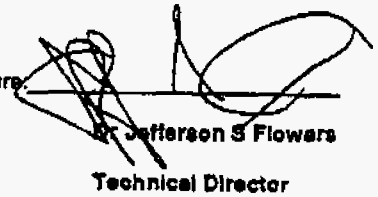
PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Postmaster Village
Public Water System Type (check one):
( )Commun ( )Non-community ( )Special Non-community

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 Purgeabla___; Unregulated Organic Pesticide___;
Unregulated Base Neutral Extractable___;Unregulated Acid Extractable___;
Subcontracted Lab Certification Number (if any):

SAMPLE INFORMATION
Sample Date (MMDDYY):
Laboratory Sample Number 16651
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 4/24/91

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	16651	.00002	<.000005	EPA504.1	.000005	4/23/91
2969	Para-dichlorobenzene	16651	.075	<0.001	EPA502.2	0.001	4/23/91
2976	Vinyl chloride	16651	0.001	<0.001	EPA502.2	0.001	4/23/91
2977	1,1-dichloroethene	16651	0.007	<0.001	EPA502.2	0.001	4/23/91
2980	1,2-dichloroethane	16651	0.003	<0.001	EPA502.2	0.001	4/23/91
2981	1,1,1-trichloroethane	16651	0.2	<0.001	EPA502.2	0.001	4/23/91
2982	Carbon tetrachloride	16651	0.003	<0.001	EPA502.2	0.001	4/23/91
2984	Trichloroethene	16651	0.003	<0.001	EPA502.2	0.001	4/23/91
2987	Tetrachloroethene	16651	0.003	<0.001	EPA502.2	0.001	4/23/91
2990	Benzene	16651	0.001	<0.001	EPA502.2	0.001	4/23/91

Comments:

B & U SERVICES

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER 17-025

Attn: Ken

(1) Client: Southern States
(2) Address: 490 S. Laurel Ave Keystone Hgts, 32656
(3) Phone: 904-473-4804
(4) Public Drinking Water ID #
(5) Public Water System Name:
(6) Project #: 2 91049
(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	Mini-Pac 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) 27									X						

(11) Kit Relinquished: Stephen Richter
(10) Date: 4-11
(10) Time:
(11) Kit Received:
(11) Date:
(11) Time:

(12) SAMPLE INFORMATION; SAMPLE DATE: MONTH 4 DATE 16 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: K. Kerlin TITLE: Lead Operator PHONE: 904-473-4804
SAMPLER'S SIGNATURE: Ken Kerlin
NOTES:
Sample #1. WELL #1 KEYSTONE HEIGHTS I.D.# 2100610
2. WELL #3 KEYSTONE HEIGHTS I.D.# 2100610
3. WELL #1 KEYSTONE CLUB ESTATES I.D.# 2040412
4. WELL #2 KEYSTONE CLUB ESTATES I.D.# 2040412
5. WELL LAKEVIEW VILLA I.D.# 2104350

"OVER"

(13) Parameter Group(s) Analysed: Turbidity__; Inorganic__; Trihalomethanes__; 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
16650	#1 #1,2,3,4&5 (ph. comp)
16651	#2 6,7,8&9 (ph. comp)
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	K. Kerlin	4-16-91	
(17) Transportation Signature:		4/16/91	1:05
(19) Lab Acceptance By:			

S S U SERVICES

INSTRUCTIONS

Name, Title, Organization of person (s) requesting analysis.

Address of person or organization, report will be sent to this address unless otherwise instructed.

Phone number of person or organization requesting analysis, any additional information needed by chemist will be requested from the person named in item #1. and at the phone number listed herein.

Number assigned by the DER, will be filled in by the client.

The client will fill in the system name if any.

The client will fill in the system i.d. number if any.

Purchase order number if any,to be filled in by the client.

Appropriate catagory to be checked by the client.

TO BE COMPLETED BY F.C.L. ONLY.

COMPLETED BY F.C.L. EMPLOYEE PREPAIRING SAMPLE KIT , SIGNED, DATED, AND TIMED.

To be signed dated and timed by the clients sampler upon receipt of sample kit.

To be completed by clients sampler.

Indicate analytical tests to be run. FILLED IN BY F.C.L. PRIOR TO SHIPPING TO CLIENT.

TO BE FILLED IN BY F.C.L. COORDINATOR.

To be completed by sampler, i.e. list point of collection, type of sample monitoring well, composite sample, distribution.

To be completed (signed) as in item #12 by sampler.

To be completed by person delivering sample to F.C.L. upon arrival at the lab, or at the time the sample is turned over to carrier for shipment to lab.

Indicate urgency of results, for rush orders alert F.C.L. in advance of shipment.

Must be signed by F.C.L. personal upon arrival of sample at the Lab.

		PLANT I.D.
Sample # 6.	WELL #1 GENEVA LK. ESTATES	204/320
7.	WELL #2 GENEVA LK. ESTATES	204/320
8.	WELL #1 POSTMASTER VILLAGE	2100912
9.	WELL #2 POSTMASTER VILLAGE	2100912

5

Keystone Heights Office
480 S. Lawrence Blvd.
Keystone Heights, FL 32656
(904) 473-4804

August 12, 1991

Ms. Vicki Singer
Florida Department of Environmental Regulation
N.E. District-- St. Johns River Subdistrict
7825 Baymeadows Way, Suite B-200
Jacksonville, Fl 32256-7577

Dear Ms. Singer:

Please find enclosed the third quarter sampling results for VOC analyses. The results are as follows:

Lab Number 17330--

#1	Keystone Heights	Well #1
#2	Keystone Heights	Well #3
#3	Keystone Club Estates	Well #1
#4	Keystone Club Estates	Well #2
#5	Lakeview Villa	Well

Lab Number 17331

#6	Geneva Lake Estates	Well #1
#7	Geneva Lake Estates	Well #2
#8	Postmaster Village	Well #1
#9	Postmaster Village	Well #2

Sincerely,

W. K. Karlin

William K. Karlin
Licensed Plant Operator

Enc. -2

Geneva Lake #1 #2
Postmaster #1 #2

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
490 S.Lawrence Blvd.
KeystoneHghts,FL 326

Date Reported: Jul29 1991
PO Number: B91049
PO Number SSU
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 6-9
Date Received: Jul18 1991
Lab Number : 17331

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17331
Ethylene dibromide	mg/L	0.000005	103	.835	<0.000005
Para-dichlorobenzene	mg/L	0.001	105	3.82	<0.001
Vinyl chloride	mg/L	0.001	90.3	4.80	<0.001
1,1-dichloroethene	mg/L	0.001	90.3	4.80	<0.001
1,2-dichloroethane	mg/L	0.001	93.1	4.47	<0.001
1,1,1-trichloroethan	mg/L	0.001	93.7	5.44	<0.001
Carbon tetrachloride	mg/L	0.001	87.3	6.87	<0.001
Trichloroethene	mg/L	0.001	94.9	4.29	<0.001
Tetrachloroethene	mg/L	0.001	98.4	4.40	<0.001
Benzene	mg/L	0.001	94.0	.073	<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 150-397
ALTAMONTE SPRINGS
FLORIDA 32715-0397
BUS (407) 339-8984
FAX (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Postmaster 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 17331
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 7/24/91

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	17331	.00002	<.000005	EPA504.1	.000005	7/24/91
2969	Para-dichlorobenzene	17331	.075	<0.001	EPA502.2	0.001	7/19/91
2976	Vinyl chloride	17331	0.001	<0.001	EPA502.2	0.001	7/19/91
2977	1,1-dichloroethene	17331	0.007	<0.001	EPA502.2	0.001	7/19/91
2980	1,2-dichloroethane	17331	0.003	<0.001	EPA502.2	0.001	7/19/91
2981	1,1,1-trichloroethane	17331	0.2	<0.001	EPA502.2	0.001	7/19/91
2982	Carbon tetrachloride	17331	0.003	<0.001	EPA502.2	0.001	7/19/91
2984	Trichloroethene	17331	0.003	<0.001	EPA502.2	0.001	7/19/91
2987	Tetrachloroethene	17331	0.003	<0.001	EPA502.2	0.001	7/19/91
2990	Benzene	17331	0.001	<0.001	EPA502.2	0.001	7/19/91

Comments:

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 490 S. LAWRENCE BLVD.
KEYSTONE HEIGHTS, FL 32656

Phone (904) 473-4804

Sampled By (PRINT): KEN KERLIN

Sampler Signature Ken Kerlin

Date Sampled 7-17-91

FCL Client No.

FCL Project Manager L. SEBECK

FCL Lab Coordinator S. WELSH

Requested Due Date:

P.O. Number

Project Name / No.

Contact KEN

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST: VOA
1	[redacted]				27					
2	#1 THRU #5 COMPOSITE			17330						
3	#6 THRU #9 COMPOSITE			17331						
4										
5										
6										

CARRIER	BAILERS	SHIP DATES: OUT / DATE	SHIP DATES: RETURNED / DATE
UPS		7/17/91	

SPECIAL INSTRUCTIONS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] FCL	7/17/91	9:36			
Ken Kerlin	9/18/91	5:25 AM			
			Brenda Gutshall	7/18/91	8:25

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

SSU SERVICES

0949

J General / Postmaster ✓

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
490 S.Lawrence Blvd.
Keystone,FL 32656

Date Reported: Nov 8 1991
PO Number: HOLD REPORT
PO Number SSU Serv.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 2
Date Received: Oct31 1991 Lab Number : 18181

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	18181
Ethylene dibromide	mg/L	0.000005	108	7.45	<0.000005
Para-dichlorobenzene	mg/L	0.001	94.9	.792	<0.001
Vinyl chloride	mg/L	0.001	119	7.46	<0.001
1,1-dichloroethene	mg/L	0.001	119	7.46	<0.001
1,2-dichloroethane	mg/L	0.001	108	1.48	<0.001
1,1,1-trichloroethan	mg/L	0.001	114	.935	<0.001
Carbon tetrachloride	mg/L	0.001	115	10.7	<0.001
Trichloroethene	mg/L	0.001	108	3.52	<0.001
Tetrachloroethene	mg/L	0.001	107	2.33	<0.001
Benzene	mg/L	0.001	109	.956	<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) 260-0110

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	18181	.00002	<.000005	EPA504.1	.000005	11/7/91
2969	Para-dichlorobenzene	18181	.075	<0.001	EPA502.2	0.001	10/31/91
2976	Vinyl chloride	18181	0.001	<0.001	EPA502.2	0.001	10/31/91
2977	1,1-dichloroethene	18181	0.007	<0.001	EPA502.2	0.001	10/31/91
2980	1,2-dichloroethane	18181	0.003	<0.001	EPA502.2	0.001	10/31/91
2981	1,1,1-trichloroethane	18181	0.2	<0.001	EPA502.2	0.001	10/31/91
2982	Carbon tetrachloride	18181	0.003	<0.001	EPA502.2	0.001	10/31/91
2984	Trichloroethene	18181	0.003	<0.001	EPA502.2	0.001	10/31/91
2987	Tetrachloroethene	18181	0.003	<0.001	EPA502.2	0.001	10/31/91
2990	Benzene	18181	0.001	<0.001	EPA502.2	0.001	10/31/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: SEE ATTACHED CHAIN OF CUSTODY RECORD.
Public Water System Name - SAME AS ABOVE -
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 18181
Sample Location (be specific): HOSE BIBB AT DICHARGE SIDE OF PRESSURE TANK.
Sample Type (check all applicable):

( )Check	(X)Regular Distribution	(X)Composit
( )Clearance	( )Maximum Residence Time	( )Plant Tap
( )Raw	( )Well	( )Resample
( )Special		

Sampler Name, Title Phone: Ken Kuhn - Operator II
404-473-4804

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 11/7/91

Mail Results to the Appropnate DER or ACPHU Office:

DER /ACPHU Reviewing Offical:

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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# 820018
FDHRS Lab# 80128
NCDEHNR Lab# 256
SCDHEC Lab# 99018

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

(1)Client	(2)Address	(3)Phone
S.S.U. Services	490 S. Lawrence Blvd. Keystone Heights, FL. 32656	(904) 473-4804

(4)Public Drinking Water ID # - LISTED BELOW - (5)Public Water System Name: - LISTED BELOW -

(6)Project: #

(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 Pac Bag	40ml	250ml	500ml	1l	2l	4l	
(16) a/									X						9 wells - Please Comp. into 2 # samples.

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

(17)Kit Relinquished: [signature] (17)Date (17)Time

(9)Kit Received: K. Kuhn (9)Date 10-30-91 (9)Time 1500 HRS.

(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	Plus I.D. # 2100610 - Well #1 KEYSTONE HEIGHTS
18180	#2	Plus I.D. # 2100610 - Well #3 KEYSTONE HEIGHTS
	#3	Plus I.D. # 2640412 - Well #1 KEYSTONE CLUB ESTATES
	#4	Plus I.D. # 2640412 - Well #2 KEYSTONE CLUB ESTATES
	#5	Plus I.D. # 2100356 - Well LAKEVIEW VILLA
18181	#6	Plus I.D. # 2641226 - Well #1 GENEVA LK. ESTATES
	#7	Plus I.D. # 2641226 - Well #2 GENEVA LK. ESTATES
	#8	Plus I.D. # 2100412 - Well #1 POSTMASTERS VILLAGE
	#9	Plus I.D. # 2100412 - Well #2 POSTMASTERS VILLAGE
	#10	

		Date	Time
(13)Collectors Signature:	K. Kuhn	10-31-91	1415 HRS.
(14)Transporters Signature:	K. Kuhn	10-31-91	2:20pm
(15)Lab Acceptance By:	[signature]	10-31-91	

Over for numbered instructions.

ABC Research

p. o. box 1557 • gainesville, florida 32602 • phone 904-372-0436 • FAX (904) 378-6483

PUBLIC DRINKING WATER ANALYSIS REPORT
Results of Analysis

Prepared For: SOUTHERN STATES UTILITIES
BILL CROSS
PO BOX 705
KEYSTONE HEIGHTS FL 32656

Date: MAR 29 199

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D Number: 2100912
Public Water System Name: POSTMASTERS VILLAGE
Public Water System Type: COMMUNITY

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: DHRS/DER # 82135, E82031
Parameter Group(s) Analyzed: TURBIDITY ANALYSIS

SAMPLE INFORMATION
Sample Date: MAR 26 1991
Laboratory Sample Number: 16455*1
Sample Location: HOSE BIB AT WELL
Sample Type(s): RESAMPLE**
Sampler Name: KEN KERLIN, Phone: (800) 432-4501

ANALYSIS INFORMATION
Extraction Date(s):
Laboratory Contact: Karen Hatfield
Resample Requested? NO

I do ***HEREBY CERTIFY*** that all data submitted are correct.

Signature Karen Hatfield

Mail Results to the Appropriate DER or ACPHU Office

Karen Hatfield
Manager Environmental Chemistry
ABC Research Corp.
Date: MAR 29 1991

DER/ACPHU Reviewing Official

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

ABC Research

p. o. box 1557 • gainesville, florida 32602 • phone 904-372-0436 • FAX (904) 376-6463

PUBLIC DRINKING WATER ANALYSIS REPORT
Results of Analysis

Prepared For: SOUTHERN STATES UTILITIES
BILL CROSS
PO BOX 705
KEYSTONE HEIGHTS FL 32656

Date: MAR 29 1991

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D Number: 2100912
Public Water System Name: POST MASTERS VILLAGE
Public Water System Type: COMMUNITY

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: DHRS/DER # 82135, E82031
Parameter Group(s) Analyzed: TURBIDITY ANALYSIS

SAMPLE INFORMATION
Sample Date: MAR 27 1991
Laboratory Sample Number: 16480*1
Sample Location: AT WELL
Sample Type(s): RAW**
Sampler Name: JAY STAPF, Phone: (904) 473-9567

ANALYSIS INFORMATION
Extraction Date(s):
Laboratory Contact: Karen Hatfield
Resample Requested? NO

I do ***HEREBY CERTIFY*** that all data submitted are correct.

Signature Karen Hatfield

Mail Results to the Appropriate DER or ACPHU Office

Karen Hatfield
Manager Environmental Chemistry
ABC Research Corp.
Date: MAR 29 1991

DER/ACPHU Reviewing Official

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

ABC Research

p. o. box 1557 • gainesville, florida 32602 • phone 904-372-0436 • telex - 4930 335

Report No. 013346 Date Mon Feb 29, 1988
Subject: POSTMASTER VILLAGE, PO #5227
Received: Thu Jan 28, 1988 DHRS/DER #82135, E82031

BILL CROSS
SOUTHERN STATES UTILITIES INC.
P.O. BOX 705, LAWERENCE BLVD.
KEYSTONE HEIGHTS, FL
32656

RESULTS OF ANALYSIS

88:13346-01 POSTMASTER VILLAGE TREATED WELL AT CR214 1/28/88 8:45AM

Arsenic	<2.0 ppb
Barium	<0.10 ppm
Cadmium (AAS)	<0.003 ppm
Chromium	<0.020 ppm
Lead (AAS)	<0.010 ppm
Mercury	<0.5 ppb
Selenium	<2.0 ppb
Silver (AAS)	<0.010 ppm
Sodium	9.2 ppm
Nitrate nitrogen	0.62 mg/l as N
Flouride in water	0.17 ppm
Turbidity	0.20 NTU's
Chloride	15 mg/l
Color - water	5 Color units
Copper (AAS)	<0.05 ppm
Corrosivity	-0.27 LSI #
Total alkalinity	100 CaCO3 mg/l
pH	7.8 pH units
Dissolved solids	150 mg/l
Calcium (AAS)	25 ppm
Surfactants	<0.025 mg/l as MBAS
Iron (AAS)	0.31 ppm
Manganese (AAS)	0.024 ppm
Odor	40 T.O.N.
Sulfate	2.1 mg/l
Zinc	<0.05 ppm
Gross Alpha	1.8 +/- 1.7 pCi/L
Methoxychlor	<1.0 ppb
Endrin	<.20 ppb
Lindane	<1.0 ppb
Toxaphene	<1.0 ppb
2,4-D	<1.0 ppb
2,4,5-TP	<1.0 ppb
SOC/VOC Testing	See Report

Respectfully submitted for A.B.C. Research

By Karen Hatfield

Karen Hatfield
Manager Environmental Chemistry

Page #1
Report ends.

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
RECEIVED JAX
DEC 5 4 09 PM '91
RICHARD BERRY

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Fountain Village SYSTEM I.D. NO: 2100512 SYSTEM PHONE #: 473-4404

ADDRESS: C/o P.O Box 705 Keystone Hgts. COUNTY: Clay DER DISTRICT: II

COLLECTOR: K. Kuhn COLLECTOR PHONE #: 473-4404

SAMPLE SITE (Locality or Subdivision): Fountain Village

DATE AND TIME COLLECTED: 12-5-91 10:00 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

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

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
20	Well #1			061125		A		
21	Well #2			061126		A		
22	2" Blow off on Hwy. 214	0.3		061127	3	A		
23.	2" Blow off on Eustyan	0.4		061128	-	A		
	Rd.							
[redacted]								

* 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 11 1991

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

REVIEWING OFFICIAL: _____

TITLE: _____

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

S.S.U. Services
P.O. Box 705
Keystone Hgts. Fla.
32656

HRS Form 852, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 0760-000-0852-1)

Quail Ridge - 578

Lake County (SSU)

Water

- 1992 FPSC Filing -

Quail Ridge

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	5/91
	8/91
	11/91
	2/92
Turbidity	2/90
Microbiological	12/91
Radionuclide	2/90
Secondary Contaminants	2/90
Unregulated Contaminants	2/90

SSU SERVICES

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

June 24, 1991

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

Re: Lake County PW
Palisades
Quail Ridge

Dear Ms. Browning,

Please find enclosed, results on complete chemical analysis for the above referenced plants. These were done by the contractors before we became owners of these facilities.

Please enter this information in your records.

Sincerely,

SSU Services

Donald B. Corder

Donald B. Corder
Division Supervisor

DBC/jlm

cc: Charles Sweat
Clara Dozier
File

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:
Allens Well Drilling
PO Box 130
Altoona,FL 32702

Date Reported: Mar12 1990
Quail Ridge
Proj Num Allen's Well
DHRS Lab# : 83139
DER Lab# : EB3018

For: WATER SAMPLE
Date Received: Feb15 1990 Lab Number : 14778

REPORT OF ANALYSIS

Quail Ridge

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14778
Turbidity	NTU	0.05	-	3.77	0.49
Arsenic	mg/L	0.0005	98.7	2.58	0.0033
Barium	mg/L	0.001	102	1.87	0.008
Cadmium	mg/L	0.001	101	0.8	<0.0010
Chromium	mg/L	0.005	98	1.0	<0.0050
Fluoride	mg/L	0.005	95	4.6	0.234
Lead	mg/L	0.01	102	1.6	<0.010
Mercury	mg/L	0.0002	99	6.25	<0.00020
Nitrate (as N)	mg/L	0.01	100	1.89	0.569
Selenium	mg/L	0.0005	103	1.6	<0.00050
Silver	mg/L	0.005	102	1.0	<0.0050
Sodium	mg/L	0.002	103	3.07	8.9
TTHM	mg/L	0.001	105	3.04	<0.0010
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
Endrin	mg/L	0.000001	96.0	2.38	<0.0000010
Lindane	mg/L	0.000001	108	4.86	<0.0000010
Methoxychlor	mg/L	0.00001	97.2	2.56	<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, [illegible]

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

Ph. (407) 339-59
Fax (407) 260-61

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

Received From:
Allens Well Drilling
PO Box 130
Altoona,FL 32702

Date Reported: Mar12 1990

Proj Num Allen's Well
DHRS Lab# : 83139
DER Lab# : E83018

For: WATER SAMPLE
Date Received: Feb15 1990 Lab Number : 14778

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14778
Toxaphene	mg/L	0.0001	101	1.56	<0.00010
2,4-D	mg/L	0.00005	88.9	6.83	<0.000050
2,4,5-TP (Silvex)	mg/L	0.00002	102	0.98	<0.000020
Calcium	mg/L	0.1			<0.10
Chloride	mg/L	0.015	98.5	4.7	6
Carbonate_CaCO3	mg/L	0.1			114.0
Hydroxide_CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	108	2.8	<0.0050
Bicarbonate _CaCO3	mg/L	0.1			113
Carbonate_Alkalinity	mg/L	0.1			1.1
Hydrogen_Sulfide	mg/L	0.5	-	-	<0.50
Iron	mg/L	0.01	98.0	1.6	0.04
Magnesium	mg/L	0.01			<0.010
Manganese	mg/L	0.005	104	1.7	<0.0050
Sulfate	mg/L	0.2	98.8	3.4	5.2
Zinc	mg/L	0.001	106	0.6	<0.0010
Carbon_Dioxide	mg/L	0.1			2.3
Color	mg/L	5	-	-	25
Total_Hardness	mg/L	0.1			-
NCH_as_CaCO3	mg/L	0.1			-
Odor(TON)	TON	1	-	-	<1
Field_pH	pH	0.01			-
Lab_pH	pH	0.01	100	0	8
Alkalinity	mg/L	0.1	100	0	114.0
TDS	mg/L	2.5	97.7	1.96	101.4
Temperature	oC	1			25

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.

Jefferson S. Flowers, Ph.D.
Technical Director

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

Ph. (407) 339-5
Fax (407) 260-4

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

Received From:
Allens Well Drilling
PO Box 130
Altoona,FL 32702

Date Reported: Mar12 1990

Proj Num Allen's Well
DHRS Lab# : 83139
DER Lab# : E83018

For: WATER SAMPLE
Date Received: Feb15 1990 Lab Number : 14778

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14778
Langelier_Index	LX	0.01			-
Saturation_Index	pHs	0.01			-
Stability_Index	pH	0.01			-
Foaming_Agents	mg/L	0.1	98.0	1.79	<0.10
Field Chlorine	mg/L	0.1			-
Gross alpha incl. Ra	pCi/L	1			1
Chloromethane	mg/L	0.001	107	4.99	<0.0010
Dichlorodifluorometh	mg/L	0.001	92.0	5.02	<0.0010
Bromomethane	mg/L	0.001	107	4.99	<0.0010
Chloroethane	mg/L	0.001	107	4.99	<0.0010
Trichlorofluorometha	mg/L	0.001	92.0	5.02	<0.0010
trans-1,3,-dichlorop	mg/L	0.001	102	1.52	<0.0010
cis-1,3-dichloroprop	mg/L	0.001	104	2.20	<0.0010
Methyl-tert-butyleth	mg/L	0.001	98.4	2.40	<0.0010
cis-1,2-dichloroethe	mg/L	0.001	108	4.40	<0.0010
Dibromomethane	mg/L	0.001	103	1.99	<0.0010
1,1-dichloropropene	mg/L	0.001	105	2.79	<0.0010
1,3-dichloropropane	mg/L	0.001	105	2.95	<0.0010
1,2,3-trichloropropa	mg/L	0.001	105	5.33	<0.0010
2,2-dichloropropane	mg/L	0.001	101	1.44	<0.0010
1,2-dibromo-3-chloro	mg/L	0.001	106	4.08	<0.0010
Chloroform	mg/L	0.001	108	4.40	<0.0010
Bromoform	mg/L	0.001	104	2.41	<0.0010
Bromodichloromethane	mg/L	0.001	103	1.99	<0.0010
Dibromochloromethane	mg/L	0.001	106	3.39	<0.0010
p-xylene	mg/L	0.001	97.2	3.20	<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

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

Ph. (407) 339-5
Fax (407) 260-(

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

Received From:
Allens Well Drilling
PO Box 130
Altoona,FL 32702

Date Reported: Mar12 1990

Proj Num Allen's Well
DHRS Lab# : 83139
DER Lab# : ES301b

For: WATER SAMPLE
Date Received: Feb15 1990 Lab Number : 14778

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14778
Methylene chloride	mg/L	0.001	102	8.05	<0.0010
o-chlorotoluene	mg/L	0.001	96.6	4.11	<0.0010
p-chlorotoluene	mg/L	0.001	96.6	4.11	<0.0010
m-dichlorobenzene	mg/L	0.001	95.5	4.99	<0.0010
o-dichlorobenzene	mg/L	0.001	96.6	4.11	<0.0010
1,1-dichloroethane	mg/L	0.001	101	1.44	<0.0010
trans-1,2-dichloroet	mg/L	0.001	104	4.62	<0.0010
1,2-dichloropropane	mg/L	0.001	106	3.42	<0.0010
1,1,2-trichloroethan	mg/L	0.001	106	3.45	<0.0010
1,1,1,2-tetrachloroe	mg/L	0.001	96.9	3.35	<0.0010
1,1,2,2-tetrachloroe	mg/L	0.001	105	5.33	<0.0010
Chlorobenzene	mg/L	0.001	96.9	3.35	<0.0010
Toluene	mg/L	0.001	96.9	3.43	<0.0010
Ethylbenzene	mg/L	0.001	96.5	3.87	<0.0010
Bromobenzene	mg/L	0.001	96.9	3.35	<0.0010
m-xylene	mg/L	0.001	96.6	3.73	<0.0010
Styrene	mg/L	0.001	96.6	3.73	<0.0010
o-xylene	mg/L	0.001	97.2	3.20	<0.0010
Dalapon	mg/L	0.000001	105	3.02	<0.0000010
Oxamyl (Vydate)	mg/L	0.002	108	7.05	<0.0020
Simazine	mg/L	0.007	95.3	2.80	<0.0070
Picloram	mg/L	0.00007	97.5	1.51	<0.000070
Dinoseb	mg/L	0.00001	101	0.73	<0.000010
Aldicarb sulfoxide	mg/L	0.002	109	7.79	<0.0020
Aldicarb sulfone	mg/L	0.002	106	5.26	<0.0020
Metolachlor	mg/L	0.0005	104	2.13	<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) 339-598
Fax (407) 260-611

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

Received From:
Allens Well Drilling
PO Box 130
Altoona,FL 32702

Date Reported: Mar12 1990

Proj Num Allen's Well
DHRS Lab# : 83139
DER Lab# : EB3018

For: WATER SAMPLE
Date Received: Feb15 1990 Lab Number : 14778

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14778
Carbofuran	mg/L	0.0015	106	5.26	<0.000150
Aldicarb	mg/L	0.001	96.7	3.00	<0.0010
Atrazine	mg/L	0.002	104	2.43	<0.0020
Alachlor (Lasso)	mg/L	0.0002	99.3	0.43	<0.00020
Heptachlor	mg/L	0.000005	108	4.66	<0.0000050
Aldrin	mg/L	0.00007	103	1.72	<0.000070
Dieldrin	mg/L	0.00001	95.5	2.66	<0.000010
Dicamba	mg/L	0.00001	88.9	6.83	<0.000010
Chlordane	mg/L	0.00001	103	3.56	<0.000010
Pentachlorophenol	mg/L	0.005	97.9	1.22	<0.0050
Hexachlorocyclopenta	mg/L	0.005	105	0.34	<0.0050
Dioxin	mg/L	0.00001	103	1.72	<0.000010
Isophorone	mg/L	0.005	94.5	0.42	<0.0050
2,4-dinitrotoluene	mg/L	0.005	92.6	0.70	<0.0050
Dimethylphthalate	mg/L	0.005	95.5	1.64	<0.0050
Diethylphthalate	mg/L	0.005	96.4	1.27	<0.0050
Di-n-butylphthalate	mg/L	0.005	90.8	6.75	<0.0050
Butyl benzyl phthala	mg/L	0.005	94.6	1.04	<0.0050
Bis(2-ethylhexyl)pht	mg/L	0.005	95.0	1.10	<0.0050
1,2,4-trichlorobenze	mg/L	0.005	98.2	2.38	<0.0050
PCB-1016	mg/L	0.0001	106	3.58	<0.00010
PCB-1221	mg/L	0.0001	106	4.16	<0.00010
PCB-1232	mg/L	0.0001	104	3.25	<0.00010
PCB-1242	mg/L	0.0001	104	2.94	<0.00010
PCB-1248	mg/L	0.0001	107	4.80	<0.00010
PCB-1254	mg/L	0.0001	107	4.22	<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

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

Ph. (407) 339-596
Fax (407) 260-61

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

Received From:
Allens Well Drilling
PO Box 130
Altoona,FL 32702

Date Reported: Mar12 1990

Proj Num Allen's Well
DHRS Lab# : 83139
DER Lab# : E83018

For: WATER SAMPLE
Date Received: Feb15 1990 Lab Number : 14778

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	14778
PCB-1260	mg/L	0.0001	108	5.38	<0.00010
Dioctylphthalate	mg/L	0.005	92.0	1.22	<0.0050
2-chlorophenol	mg/L	0.005	96.6	1.78	<0.0050
2-methyl-4,6-dinitop	mg/L	0.005	104	1.18	<0.0050
Phenol	mg/L	0.005	98.7	2.25	<0.0050
2,4,6-trichloropheno	mg/L	0.005	96.5	5.42	<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 1 2nd ST. P.O. BOX 150597 ALTAMONTE SPRINGS, FLA. 32715-0597

Jeffersen L. Flowers, Ph. D.
Jeffersen A. Flowers, Ph. D.

Phone: 407-
FAX: 407-

FLOWERS CHEMICAL LABORATORIES, INC.

ANALYTICAL & CONSULTING CHEMISTS

CHAIN OF CUSTODY RECORD

Altamonte, FL 32701

Page ___ of

Client: Quail Ridge | Address: Dr. Box 130 | Phone: 904-462-

Project Name: Quail Ridge | Required: Urgent ☐ Routine ☒ | Date 2-15-90

Sample Containers QTY	Preservative: HNO3	H2SO4	HCl	Na2S2O3	Zn(CH3COO)2/NaOH	NaOH/AscAcid	Plastic Containers: 25ml	125ml	250ml	500ml	1L	2L	Whirl Pak Bag	Glass Containers: 40ml Vial	250ml	500ml	1L	2L	4L	NOTE
1	X									X										
1											X									
1																			X	
1																	X			
4														X						

Kit Relinquished: X | Date: | Time: | Kit Received: X | Date: | Time:

Parameters: Full Drinking Water GA H_2S

Laboratory Number	Client Identification/Description
14778	

		Date	Time
Sample Collection:			
Transportation:			
Lab Acceptance:		2/15/90	3:10

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Guard Ridge
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_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: 14778
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 Date 3/7/90
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 3/12/90

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	14778	1	0.49	EPA180.1	0.05	2/16/90

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	14778	0.05	0.0033	EPA206.2	0.0005	2/20/90
1010	Barium	14778	1	0.008	EPA208.2	0.001	2/20/90
1015	Cadmium	14778	0.01	<0.001	EPA213.1	0.001	2/16/90
1020	Chromium	14778	0.05	<0.005	EPA218.1	0.005	2/16/90
1025	Fluoride	14778	4	0.234	EPA300.0	0.005	2/20/90
1030	Lead	14778	0.05	<0.01	EPA239.1	0.01	2/16/90
1035	Mercury	14778	0.002	<0.0002	EPA245.1	0.0002	2/22/90
1040	Nitrate (as N)	14778	10	0.589	EPA353.1	0.01	2/21/90
1045	Selenium	14778	0.01	<0.0005	EPA270.3	0.0005	2/21/90
1050	Silver	14778	0.05	<0.005	EPA272.1	0.005	2/20/90
1052	Sodium	14778	160	8.90	EPA273.1	0.002	2/16/90

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	14778	0.10	<0.001	EPA502.2	0.001	3/4/90

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	14778	.00002	<.000005	EPA504.1	.000005	3/5/90
2969	Para-dichlorobenzene	14778	.075	<0.001	EPA502.2	0.001	3/4/90
2976	Vinyl chloride	14778	0.001	<0.001	EPA502.2	0.001	3/4/90
2977	1,1,-dichloroethene	14778	0.007	<0.001	EPA502.2	0.001	3/4/90
2980	1,2,-dichloroethane	14778	0.003	<0.001	EPA502.2	0.001	3/4/90
2981	1,1,1-trichloroethane	14778	0.2	<0.001	EPA502.2	0.001	3/4/90
2982	Carbon tetrachloride	14778	0.003	<0.001	EPA502.2	0.001	3/4/90

2984	Trichloroethene	14778	0.003	<0.001	EPA502.2	0.001	3/4/90
2987	Tetrachloroethene	14778	0.003	<0.001	EPA502.2	0.001	3/4/90
2990	Benzene	14778	0.001	<0.001	EPA502.2	0.001	3/4/90

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	14778	0.0002	<.000001	EPA508	.000001	3/7/90
2010	Lindane	14778	0.004	<.000001	EPA508	.000001	3/7/90
2015	Methoxychlor	14778	0.1	<0.00001	EPA508	0.00001	3/7/90
2020	Toxaphene	14778	0.005	<0.0001	EPA508	0.0001	3/7/90
2105	2,4-D	14778	0.1	<0.00005	EPA515	0.00005	3/7/90
2110	2,4,5-TP (Silvex)	14778	0.01	<0.00002	EPA515	0.00002	3/7/90

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	14778		<0.1	EPA215.1	0.1	
1017	Chloride	14778	250	8.0	EPA300.0	0.015	3/6/90
1019	Carbonate_CaCO3	14778		114.1	SM314A	0.1	
1021	Hydroxide_CaCO3	14778		0.0	SM406C	0.1	
1022	Copper	14778	1	<0.005	EPA220.1	0.005	2/19/90
1023	Bicarbonate_CaCO3	14778		113.0	SM406C	0.1	
1026	Carbonate_Alkalinity	14778		1.1	SM406C	0.1	
1027	Hydrogen_Sulfide	14778		<0.5	EPA376.1	0.5	2/16/90
1028	Iron	14778	0.3	0.04	EPA236.1	0.01	2/19/90
1031	Magnesium	14778		<0.01	EPA242.1	0.01	
1032	Manganese	14778	0.05	<0.005	EPA243.1	0.005	2/19/90
1055	Sulfate	14778	250	5.2	EPA300.0	0.200	3/9/90
1095	Zinc	14778	5	<0.001	EPA289.1	0.001	2/19/90
1901	Carbon_Dioxide	14778		2.3	SM406C	0.1	
1905	Color	14778	15	25.0	EPA110.1	5	2/16/90
1915	Total_Hardness	14778			SM314A	0.1	
1917	NCH_as_CaCO3	14778			SM314A	0.1	
1920	Odor(TON)	14778	3	<1	EPA140.1	1	2/16/90
1924	Field_pH	14778	6.5-8.5	-	EPA150.1	0.01	
1925	Lab_pH	14778	6.5-8.5	8.00	EPA150.1	0.01	2/16/90
1927	Alkalinity	14778		114.1	EPA310.1	0.1	2/16/90
1930	TDS	14778	500	101.4	EPA160.1	2.5	2/22/90
1996	Temperature	14778		25 -		1	
1997	Langelier_Index	14778	-0.2:+0.2		SM203	0.01	
1998	Saturation_Index	14778			SM203	0.01	
1999	Stability_Index	14778			SM203	0.01	

2909	Foaming Agents	14778	0.5	<0.1	EPA425.1	0.1	3/7/90
	Field Chlorine	14778		-	-	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	14778	5	1	EPA900	1	3/7/90

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	14778		<0.001	EPA502.2	0.001	3/4/90
2212	Dichlorodifluoromethane	14778		<0.001	EPA502.2	0.001	3/4/90
2214	Bromomethane	14778		<0.001	EPA502.2	0.001	3/4/90
2216	Chloroethane	14778		<0.001	EPA502.2	0.001	3/4/90
2218	Trichlorofluoromethane	14778		<0.001	EPA502.2	0.001	3/4/90
2224	trans-1,3,-dichloropropene	14778		<0.001	EPA502.2	0.001	3/4/90
2228	cis-1,3-dichloropropene	14778		<0.001	EPA502.2	0.001	3/4/90
2251	Methyl-tert-butylether	14778		<0.001	EPA502.2	0.001	3/4/90
2380	cis-1,2-dichloroethene	14778		<0.001	EPA502.2	0.001	3/4/90
2408	Dibromomethane	14778		<0.001	EPA502.2	0.001	3/4/90
2410	1,1-dichloropropene	14778		<0.001	EPA502.2	0.001	3/4/90
2412	1,3-dichloropropane	14778		<0.001	EPA502.2	0.001	3/4/90
2414	1,2,3-trichloropropane	14778		<0.001	EPA502.2	0.001	3/4/90
2416	2,2-dichloropropane	14778		<0.001	EPA502.2	0.001	3/4/90
2931	1,2-dibromo-3-chloropropan	14778		<0.001	EPA502.2	0.001	3/4/90
2941	Chloroform	14778		<0.001	EPA502.2	0.001	3/4/90
2942	Bromoform	14778		<0.001	EPA502.2	0.001	3/4/90
2943	Bromodichloromethane	14778		<0.001	EPA502.2	0.001	3/4/90
2944	Dibromochloromethane	14778		<0.001	EPA502.2	0.001	3/4/90
2962	p-xylene	14778		<0.001	EPA502.2	0.001	3/4/90
2964	Methylene chloride	14778		<0.001	EPA502.2	0.001	3/4/90
2965	o-chlorotoluene	14778		<0.001	EPA502.2	0.001	3/4/90
2966	p-chlorotoluene	14778		<0.001	EPA502.2	0.001	3/4/90
2967	m-dichlorobenzene	14778		<0.001	EPA502.2	0.001	3/4/90
2968	o-dichlorobenzene	14778		<0.001	EPA502.2	0.001	3/4/90
2978	1,1-dichloroethane	14778		<0.001	EPA502.2	0.001	3/4/90
2979	trans-1,2-dichloroethylene	14778		<0.001	EPA502.2	0.001	3/4/90
2983	1,2-dichloropropane	14778		<0.001	EPA502.2	0.001	3/4/90
2985	1,1,2-trichloroethane	14778		<0.001	EPA502.2	0.001	3/4/90
2986	1,1,1,2-tetrachloroethane	14778		<0.001	EPA502.2	0.001	3/4/90
2988	1,1,2,2-tetrachloroethane	14778		<0.001	EPA502.2	0.001	3/4/90
2989	Chlorobenzene	14778		<0.001	EPA502.2	0.001	3/4/90

2991	Toluene	14778	<0.001	EPA502.2	0.001	3/4/90
2992	Ethylbenzene	14778	<0.001	EPA502.2	0.001	3/4/90
2993	Bromobenzene	14778	<0.001	EPA502.2	0.001	3/4/90
2995	m-xylene	14778	<0.001	EPA502.2	0.001	3/4/90
2996	Styrene	14778	<0.001	EPA502.2	0.001	3/4/90
2997	o-xylene	14778	<0.001	EPA502.2	0.001	3/4/90

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	14778		<.000001	EPA515	.000001	3/7/90
2036	Oxamyl (Vydate)	14778		<0.002	EPA531	0.002	2/22/90
2037	Simazine	14778		<0.007	EPA505	0.007	3/7/90
2040	Picloram	14778		<0.00007	EPA515	0.00007	3/7/90
2041	Dinoseb	14778		<0.00001	EPA515	0.00001	3/7/90
2043	Aldicarb sulfoxide	14778		<0.002	EPA531	0.002	2/22/90
2044	Aldicarb sulfone	14778		<0.002	EPA531	0.002	2/22/90
2045	Metolachlor	14778		<0.0005	EPA505	0.0005	3/7/90
2046	Carbofuran	14778		<0.0015	EPA531	0.0015	2/22/90
2047	Aldicarb	14778		<0.001	EPA531	0.001	2/22/90
2050	Atrazine	14778		<0.002	EPA505	0.002	3/7/90
2051	Alachlor (Lasso)	14778		<0.0002	EPA505	0.0002	3/7/90
2065	Heptachlor	14778		<.000005	EPA508	.000005	3/7/90
2356	Aldrin	14778		<0.00007	EPA508	0.00007	3/7/90
2364	Dieldrin	14778		<0.00001	EPA508	0.00001	3/7/90
2440	Dicamba	14778		<0.00001	EPA515	0.00001	3/7/90
2959	Chlordane	14778		<0.00001	EPA508	0.00001	3/7/90
9114	Pentachlorophenol	14778		<0.005	EPA515	0.005	3/7/90

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	Hexachlorocyclopentadiene	14778		<0.005	EPA612	0.005	3/7/90
2063	Dioxin	14778		<0.00001	EPA613	0.00001	3/7/90
2262	Isophorone	14778		<0.005	EPA609	0.005	3/7/90
2270	2,4-dinitrotoluene	14778		<0.005	EPA609	0.005	3/7/90
2282	Dimethylphthalate	14778		<0.005	EPA606	0.005	3/7/90
2284	Diethylphthalate	14778		<0.005	EPA606	0.005	3/7/90
2290	Di-n-butylphthalate	14778		<0.005	EPA606	0.005	3/7/90
2294	Butyl benzyl phthalate	14778		<0.005	EPA606	0.005	3/7/90
2298	Bis(2-ethylhexyl)phthalate	14778		<0.005	EPA606	0.005	3/7/90
2378	1,2,4-trichlorobenzene	14778		<0.005	EPA612	0.005	3/7/90
2388	PCB-1016	14778		<0.0001	EPA505	0.0001	3/7/90

2390	PCB-1221	14778	<0.0001	EPA505	0.0001	3/7/90
2392	PCB-1232	14778	<0.0001	EPA505	0.0001	3/7/90
2394	PCB-1242	14778	<0.0001	EPA505	0.0001	3/7/90
2396	PCB-1248	14778	<0.0001	EPA505	0.0001	3/7/90
2398	PCB-1254	14778	<0.0001	EPA505	0.0001	3/7/90
2400	PCB-1260	14778	<0.0001	EPA505	0.0001	3/7/90
9089	Dioctylphthalate	14778	<0.005	EPA606	0.005	3/7/90

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	14778		<0.005	EPA604	0.005	3/7/90
9112	2-methyl-4,6-dinitophenol	14778		<0.005	EPA604	0.005	3/7/90
9115	Phenol	14778		<0.005	EPA604	0.005	3/7/90
9116	2,4,6-trichlorophenol	14778		<0.005	EPA604	0.005	3/7/90

Comments:

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: 89:037

PO Number SSU
FDHRS Lab# : 82139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 9e019

For: COMP. SAMPLE
Date Received: May31 1991

Lab Number : 1704:

REPORT OF ANALYSIS

Vanadium Village, Quail Ridge
Palisades

1704:

Parameter	Unit	Method Detection Limit	%RSD	%PRC	
Ethylene dibromide	mg/L	0.000005	25..	6.33	<0.000005
Tetrachloroethane	mg/L	0.001	104	.994	<0.001
Vinyl chloride	mg/L	0.001	11e	17.4	<0.001
1,1-dichloroethene	mg/L	0.001	11e	17.4	<0.001
1,2-dichloroethane	mg/L	0.001	11-	.847	<0.001
1,1,1-trichloroethan	mg/L	0.001	11e	1.74	<0.001
Carbon tetrachloride	mg/L	0.001	9e.e	12.0	<0.001
Tr chloroethene	mg/L	0.001	.0"	2.21	<0.001
Tetrachloroethene	mg/L	0.001	104	6.07	<0.001
Benzene	mg/L	0.001	25.5	11.5	<0.001

Data Release Authorization Letter

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

Laboratory Telephone #
Technical Director

Page 1 of 1

Johnson L. Flowers, Ph.D.
Johnson S. Flowers, Ph.D.
451 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5064

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Quail Ridge
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 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 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	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]

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	880-0058 X148

(4) Public Drinking Water ID # | (5) Public Water System Name: Venetian Oaks/Ridge Palms (2ND QTR. VOA's)

(6) Project # | (7) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

(8) PO# 891037

		Preservative				Plastic Containers						Glass Containers						(9) RE:
		HNO3	H2SO4	HCl		60ml	125ml	250ml	500ml	1L	Wheat-Pac 8oz	40ml	125ml	500ml	1L	2L	4L	
	8											X						(10) Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___
																		Please composite

(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:

(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
7041	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(20) Collectors Signature:	[signature]	5-30-91	
(21) Transporters Signature:	[signature]	5-31-91	
(22) Lab Acceptance By:	[signature]	5-31-91	12:15 pm

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: B91037

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

For: 579/578/567
Date Received: Aug16 1991 Lab Number : 17559

REPORT OF ANALYSIS

Quail Ridge
2nd Qtr. VOC.

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17559
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.
401 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: 3354867
Public Water System Name Quail Ridge
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 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 Shuttler - 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 06/01/8 () 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	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:

FORM Lab ID
FORM Lab ID
INCIDENT Lab
SOURCE Lab

ANALYTICAL & CONSULTING CHEMISTS
CHAIN OF CUSTODY RECORD
DRINKING WATER II-039

(1) Client: SSU
ATTN: Dan Corder
(2) Address: 1000 Color Place Apopka, FL 32703
(3) Phone: 880-0058

(4) Public Drinking Water ID #:
(5) Project #: 891037
(6) Public Water System Name:
(7) Public Water System Type: ( ) Community ( ) Non-Community ( ) Special Non-Community

	Preservative				Plastic Containers						Glass Containers					
		HNO3	H2SO4/NaOH			100ml	125ml	250ml	500ml	1L	Hexane-2oz	40ml	125ml	500ml	1L	1gal
72																

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

(9) Relinquished: (10) Date (11) Time
(12) Received (13) Date (14) 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: ____

FEES:
(1 WELL) Palacaolas #3354877
(1 WELL) Quail Ridge #3354807
(2 WELLS) Venetian Village #3351426
#579
#567
please composite

(15) 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 ___

Laboratory Number	(15) Client Sample Identification
17559	#1
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	Lorne Shaffer	5-16-91	
(17) Transporters Signature:	Lorne Shaffer	5/16/91	
(18) Lab Acceptance (19):		5/16/91	12:25

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

Qual Ridge

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: Quail Ridge
Public Water System Name 3354967
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 18376
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 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	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# 85139
NCDEHNR Lab# 284
SCDHEC Lab# 99018

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

(1)Client: Southern States

(2)Address: 1000 Colin Pl. Apopka, 32703

(3)Phone: 880-0058 ext. 148

(4)Public Drinking Water ID #:

(5)Public Water System Name:

(6)Project #:

(7)PO#: RG 1037

(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	(12)Turn Around Time: 10 Working Days: 5 Working Days : 3 Working Days : 1 Working Day : Other :
(16)	(2)										X						
																	1- Palisades 1-Quail Ridge 2-Venetian Village (please 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
18376	#1 578	Well - Quails Ridge
	#2 567	Well #1 - Venetian Village
	#3 567	Well #2 - Venetian Village
	#4 579	Well #1 - Palisades
	#5	
	#6	
	#7	
	#8	
	#9	
	#10	

		Date	Time
(13)Collectors Signature:	Kyle Shuffler Id # Attached	11-26-91	10:30 am 9:00 am
(14)Transporters Signature:	Id # Attached	11-26-91	3:30 p.m.
(15)Lab Acceptance By:	M McCoy	11-26-91	3:30pm.

Over for numbered instructions.

SSU SERVICES

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

March 9, 1992

Ms. Marie Carrasquille
State of Florida D.E.R.
3319 Maguire Blvd., Suite 232
Orlando, Fl. 32803

Re: Lake County PW
Quail Ridge - PWS ID # 3354867
Palisades - PWS ID # 3354877

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

Enc.

/plb

cc: Jim Ragsdale
Frank Sanderson
Ralph Terrero
Mel Fisher
File

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:

SSU
1000 Color Pl.
Apopka, Fl 32703

Date Reported: Feb28 1992
PO Number: 114569
PO Number Palisades + Qual: / R:dg +
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: Palisades/Quail Ridge
Date Sampled:Jan-143 1757 Date Received:Feb26 1992 Lab Number : 19039

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	19039
Ethylene dibromide	mg/L	0.000005	101	8.92	<0.000005
Para-dichlorobenzene	mg/L	0.001	96.2	1.98	<0.001
Vinyl chloride	mg/L	0.001	96.2	2.84	<0.001
1,1-dichloroethene	mg/L	0.001	96.2	2.84	<0.001
1,2-dichloroethane	mg/L	0.001	96.7	2.98	<0.001
1,1,1-trichloroethan	mg/L	0.001	96.8	.172	<0.001
Carbon tetrachloride	mg/L	0.001	97.7	2.70	<0.001
Trichloroethene	mg/L	0.001	97.9	.728	<0.001
Tetrachloroethene	mg/L	0.001	98.8	1.87	<0.001
Benzene	mg/L	0.001	95.4	1.05	<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.
441 NEWBURYPORT
P.O. BOX 180-597
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: 3354867
Public Water System Name: Quail Ridge
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 19039
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: John Hammersley - Maint. - 890-0058

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 2/27/92

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	19039	.00002	<0.000005	EPA504.1	.000005	2.27.92
2969	Para-dichlorobenzene	19039	.075	<0.001	EPA502.2	0.001	2/26/92
2976	Vinyl chloride	19039	0.001	<0.001	EPA502.2	0.001	2/26/92
2977	1,1-dichloroethene	19039	0.007	<0.001	EPA502.2	0.001	2/26/92
2980	1,2-dichloroethane	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2981	1,1,1-trichloroethane	19039	0.2	<0.001	EPA502.2	0.001	2/26/92
2982	Carbon tetrachloride	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2984	Trichloroethene	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2987	Tetrachloroethene	19039	0.003	<0.001	EPA502.2	0.001	2/26/92
2990	Benzene	19039	0.001	<0.001	EPA502.2	0.001	2/26/92

Comments:

FLOWERS

FLOWERS CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 85139
NELAP/HRS Lab# 256
SCDHEC Lab# 99018

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

ATTN: DON

(1)Client	(2)Address	(3)Phone
SSU	1880 Color Pl. Apopka, FL. 32703	880-0058

(4)Public Drinking Water ID #

(5)Public Water System Name:

(6)Project: # PALISADES
PO# LPO# 114569

(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)	10										X						

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

PALISADES - 1well
Quail Ridge - 1well
<Composite>

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

(10)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 ;

(18)Laboratory Number	(11)Client Sample Identification
	#1 #579
	#2 # 579
	#3 # 579
19039	#4
	#5 # 574
	#6 # 574
	#7 # 574
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	x M. R. Ward	2-26-92	10:00-11:30
(14)Transporters Signature:	x M. R. Ward	2-26-92	1:00
(15)Lab Acceptance By:		2/26/92	12:56

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

RECEIVED
DEC 17 1991

I.D. No. 13005
FOR LABORATORY USE ONLY
REC'D URL
DEC 11 1 45 PM '91
BY: D. KAZANIS

12/12

DRINKING WATER BACTERIOLOGICAL ANALYSIS

#578

SYSTEM NAME: Quail Ridge SYSTEM I.D. NO: 3354867 SYSTEM PHONE #: 904-787-4504

ADDRESS: Quail Ridge Trailer Park COUNTY: Putnam DER DISTRICT: Central

COLLECTOR: John H COLLECTOR PHONE #: 904-326-4045

SAMPLE SITE (Locality or Subdivision): Front Entrance

DATE AND TIME COLLECTED: 12/10/91 3:45pm

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) (Specify)
( ) Distribution [ ] TNTC or C
( ) Raw [ ] Turbid
[ ]

REMARKS:

TO BE COMPLETED BY COLLECTOR OF SAMPLE			
COLL. NO. #	SAMPLE POINT (Specific Address)	Cl RES'D	pH
W	Well	0.	
T	Tank	1.0	
R-1	37704 Quail Ridge Ct	.8	
R-2	11421 Bob White	.8	

TO BE COMPLETED BY LAB				
ANALYSIS METHOD:	MF	MTF	NMO-MUG	PA
SAMPLE NUMBER	NON COLIFORM	*TOTAL	CONFIRM TOTAL	CONFIRM FECAL
05[illegible]22		A		
05[illegible]23		A		
05[illegible]24		A		
05[illegible]25		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 650, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5760-000-0650-5)

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: JF

TITLE: DER

River Grove - 442

Putnam County (SSU)

Water

- 1992 FPSC Filing -

River Grove

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	8/91
Organic	8/91
Volatile Organic Chemicals	1/91
	4/91
	7/91
	10/91
Turbidity	8/91
Microbiological	12/91
Radionuclide	6/88
Secondary Contaminants	8/91
Unregulated Contaminants	1/91

SSU SERVICES
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	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 3

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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 S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
681 NEWPORT-[illegible]
P.O. BOX [illegible]
ALTAMONTE [illegible]
FLORIDA 32715-0557
BUS [illegible]
FAX [illegible]

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: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.
4841 NEWPORT
P.O. BOX
ALTAMONTE SPRINGS
FLORIDA 32715-0592
BUS
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# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 3
Date Received: Jan30 1991 Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.
481 NEWPORT ST
P.O. BOX
ALTAMONTE SPRINGS
FLORIDA 32715-0907
BUS (407)
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: 3
Date Received: Jan30 1991
Lab Number : 16155

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16155
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.
4R1 NEWBERRY ROAD
P.O. BOX 140522
GAINESVILLE, FLORIDA 32614-0522
BUS (904) 332-2444
FAX (904) 332-2444

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name River Grove
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 18155
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 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 06/01/1 () 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	16155	.00002	<0.000005	EPA504.1	.000005	2/19/91
2969	Para-dichlorobenzene	16155	.075	<0.001	EPA502.2	0.001	2/13/91
2976	Vinyl chloride	16155	0.001	<0.001	EPA502.2	0.001	2/13/91
2977	1,1-dichloroethene	16155	0.007	<0.001	EPA502.2	0.001	2/13/91
2980	1,2-dichloroethane	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2981	1,1,1-trichloroethane	16155	0.2	<0.001	EPA502.2	0.001	2/13/91
2982	Carbon tetrachloride	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2984	Trichloroethene	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2987	Tetrachloroethene	16155	0.003	<0.001	EPA502.2	0.001	2/13/91
2990	Benzene	16155	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	16155		<0.001	EPA502.2	0.001	2/13/91
2212	Dichlorodifluoromethan	16155		<0.001	EPA502.2	0.001	2/13/91
2214	Bromomethane	16155		<0.001	EPA502.2	0.001	2/13/91
2216	Chloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2218	Trichlorofluoromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2224	trans-1,3,-dichloroprop	16155		<0.001	EPA502.2	0.001	2/13/91
2228	cis-1,3-dichloropropene	16155		<0.001	EPA502.2	0.001	2/13/91
2251	Methyl-tert-butylether	16155		<0.001	EPA502.2	0.001	2/13/91
2380	cis-1,2-dichloroethene	16155		<0.001	EPA502.2	0.001	2/13/91
2408	Dibromomethane	16155		<0.001	EPA502.2	0.001	2/13/91
2410	1,1-dichloropropene	16155		<0.001	EPA502.2	0.001	2/13/91
2412	1,3-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2414	1,2,3-trichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2416	2,2-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2931	1,2-dibromo-3-chloropr	16155		<0.001	EPA502.2	0.001	2/13/91
2941	Chloroform	16155		<0.001	EPA502.2	0.001	2/13/91
2942	Bromoform	16155		<0.001	EPA502.2	0.001	2/13/91
2943	Bromodichloromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2944	Dibromochloromethane	16155		<0.001	EPA502.2	0.001	2/13/91
2962	p-xylene	16155		<0.001	EPA502.2	0.001	2/13/91
2964	Methylene chloride	16155		<0.001	EPA502.2	0.001	2/13/91
2965	o-chlorotoluene	16155		<0.001	EPA502.2	0.001	2/13/91
2966	p-chlorotoluene	16155		<0.001	EPA502.2	0.001	2/13/91
2967	m-dichlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2968	o-dichlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91
2978	1,1-dichloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2979	trans-1,2-dichloroethyl	16155		<0.001	EPA502.2	0.001	2/13/91
2983	1,2-dichloropropane	16155		<0.001	EPA502.2	0.001	2/13/91
2985	1,1,2-trichloroethane	16155		<0.001	EPA502.2	0.001	2/13/91
2986	1,1,1,2-tetrachloroetha	16155		<0.001	EPA502.2	0.001	2/13/91
2988	1,1,2,2-tetrachloroetha	16155		<0.001	EPA502.2	0.001	2/13/91
2989	Chlorobenzene	16155		<0.001	EPA502.2	0.001	2/13/91

2991	Toluene	16155	<0.001	EPA502.2	0.001	2/13/91
2992	Ethylbenzene	16155	<0.001	EPA502.2	0.001	2/13/91
2993	Bromobenzene	16155	<0.001	EPA502.2	0.001	2/13/91
2995	m-xylene	16155	<0.001	EPA502.2	0.001	2/13/91
2996	Styrene	16155	<0.001	EPA502.2	0.001	2/13/91
2997	o-xylene	16155	<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	16155		<0.000001	EPA515	.000001	2/21/91
2036	Oxamyl (Vydate)	16155		<0.002	EPA531	0.002	2/18/91
2037	Simazine	16155		<0.007	EPA505	0.007	2/21/91
2040	Picloram	16155		<0.00007	EPA515	0.00007	2/21/91
2041	Dinoseb	16155		<0.00001	EPA515	0.00001	2/21/91
2043	Aldicarb sulfoxide	16155		<0.002	EPA531	0.002	2/18/91
2044	Aldicarb sulfone	16155		<0.002	EPA531	0.002	2/18/91
2045	Metolachlor	16155		<0.0005	EPA505	0.0005	2/21/91
2046	Carbofuran	16155		<0.001	EPA531	0.001	2/18/91
2047	Aldicarb	16155		<0.002	EPA531	0.002	2/18/91
2050	Atrazine	16155		<0.002	EPA505	0.002	2/21/91
2051	Alachlor (Lasso)	16155		<0.0002	EPA505	0.0002	2/21/91
2065	Heptachlor	16155		<.000005	EPA508	.000005	2/21/91
2356	Aldrin	16155		<0.00007	EPA508	0.00007	2/21/91
2364	Dieldrin	16155		<0.00001	EPA508	0.00001	2/21/91
2440	Dicamba	16155		<0.00001	EPA515	0.00001	2/21/91
2959	Chlordane	16155		<0.00001	EPA508	0.00001	2/21/91
9114	Pentachlorophenol	16155		<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	16155		<0.001	EPA508	0.001	2/21/91
2063	Dioxin	16155		<0.00001	EPA613	0.00001	2/21/91
2262	Isophorone	16155		<0.001	EPA609	0.001	2/14/91
2270	2,4-dinitrotoluene	16155		<0.001	EPA609	0.001	2/14/91
2282	Dimethylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2284	Diethylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2290	Di-n-butylphthalate	16155		<0.001	EPA606	0.001	2/14/91
2294	Butyl benzyl phthalate	16155		<0.001	EPA606	0.001	2/14/91
2298	Bis(2-ethylhexyl)phthal	16155		<0.001	EPA606	0.001	2/14/91
2378	1,2,4-trichlorobenzene	16155		<0.001	EPA612	0.001	2/14/91
2388	PCB-1016	16155		<0.0001	EPA505	0.0001	2/21/91
2390	PCB-1221	16155		<0.0001	EPA505	0.0001	2/21/91
2392	PCB-1232	16155		<0.0001	EPA505	0.0001	2/21/91
2394	PCB-1242	16155		<0.0001	EPA505	0.0001	2/21/91
2396	PCB-1248	16155		<0.0001	EPA505	0.0001	2/21/91
2398	PCB-1254	16155		<0.0001	EPA505	0.0001	2/21/91

2400	PCB-1260	16155		<0.0001	EPA505	0.0001	2/21/91
9089	Dioctylphthalate	16155		<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	16155		<0.001	EPA604	0.001	2/14/91
9112	2-methyl-4,6-dinitophe	16155		<0.001	EPA604	0.001	2/14/91
9115	Phenol	16155		<0.001	EPA604	0.001	2/14/91
9116	2,4,6-trichlorophenol	16155		<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
	Woolems	#446	2541280
#3	Ramona 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. Newman
Lead Operator, Putnam County
SSU 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# : ES3019
NCDEHNR Lab# : 294
SCDHEC Lab# : 96019

For: ?
Date Received: Apr17 1991 Lab Number : 16691

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16691
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 Pines Grove
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 16691
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	16691	.00002	<.000005	EPA504.1	.000005	4/26/91
2969	Para-dichlorobenzene	16691	.075	<0.001	EPA502.2	0.001	4/25/91
2976	Vinyl chloride	16691	0.001	<0.001	EPA502.2	0.001	4/25/91
2977	1,1-dichloroethene	16691	0.007	<0.001	EPA502.2	0.001	4/25/91
2980	1,2-dichloroethane	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2981	1,1,1-trichloroethane	16691	0.2	<0.001	EPA502.2	0.001	4/25/91
2982	Carbon tetrachloride	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2984	Trichloroethene	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2987	Tetrachloroethene	16691	0.003	<0.001	EPA502.2	0.001	4/25/91
2990	Benzene	16691	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 # : 91-07-476
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 EB303

Respectfully Submitted,
ORLANDO LABORATORIES, INC.

John Hobbs
LABORATORY DIRECTOR

Eric Halarek
QUALITY CONTROL

Dedicated To Excellence

(407) 896-6645 (800) 626-8320 FAX (407) 898-6588

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-176

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

SAMPLE# 016
MATRIX WATER
TEST CODE ILCOMC

NUMBER OF SAMPLES COMPOSITED:

	Sample Identification	Date and time
#1	Pamona Park	07/30/91
#2	Hermits Cove	07/30/91
#3	Palm Port	07/30/91
#4	River Grove	07/30/91
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-476

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 # 91-07 476

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

SAMPLE# 02A
MATRIX METHOD BLAN
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	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.

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: River Grove
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: 91-07-476-01A
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 149127, Orlando, FL 32814
(407) 896-6645 FAX (407) 898-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

1 INVOICE TO: (COMPANY AND INDIVIDUAL)	ADDRESS (CITY, STATE, ZIP)	2 CONTACT PERSON/PHONE # INVOICE	3 OLI WORK ORDER # (LAB USE)
SSU SERVICES	1000 COLOR PLACE APOPKA, FL		9107476
4 ORIGINAL REPORT TO: (COMPANY AND INDIV., DUAL)	**ADDRESS (CITY, STATE, ZIP)**	**CONTACT PERSON/PHONE # REPORT**	**6 RB NUMBER (LAB USE)**
SSU SERVICES	P.O. BOX 458 POMONA PARK, FL 32181	PAUL THOMPSON	
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
# 2540905 Bonnett Park	7-1-91		✓				WELLS	8	✓	
# 2540482 Memorial Park	7-1-91		✓				WELLS	4	✓	
# 2540867 Main Park	7-2-91		✓				WELLS	4	✓	
# 2540859 River Bend	7-2-91		✓				WELLS	4	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	PAUL O. THOMPSON	7/11/91 8:00AM	Ron Bourgeois
2nd	Ron Bourgeois	7/31 11:00	Deedee Homan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1016

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 # : 91-10-433
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

[illegible]

[illegible] LABORATORIES, INC.
Received: 10/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 10 134

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	PAMONA PARK (1 & 2)	10/30/91 13:15
#2	HERMITS COVE (3)	10/30/91 10:40
#3	PALM PORT (4)	10/30/91 09:10
#4	RIVER GROVE (5)	10/30/91 10:10
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-10-133

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:

(R) ANKO 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# [illegible]
MATRIX METHOD BLANK
TEST CODE PMS028

VOLATILE ORGANIC ANALYSIS
17-550.310(2)(d)
(PMS028)

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: 2540959
Public Water System Name: River Grove
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: 91-10-433
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 E. 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 1487 Orlando, FL 32814
407 894-6641 FAX (407) 896-6568

CHAIN-OF-CUSTODY RECORD

INSTRUCTIONS ON BACK

Page ___ of ___

SSU SERVICES P.O BOX 458 POMONA PARK FL 32181	911433
ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) ADDRESS (CITY STATE ZIP)	
SAME	PAUL D. THOMPSON 5587
(OPTIONAL) ADDITIONAL REPORTS SENT TO ADDRESS (CITY STATE ZIP)	
CLIENT PROJECT NAME	CLIENT PROJECT P.O.# L11422

	SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	REQUESTED ANALYSIS VOC	REMARKS
1-2	POMONA PARK	10/30/91	1:15		/	/			WELL	8	/	
3	HERMITS COVE	10/30/91	10:40		/	/			WELL	4	/	
4	PALM PORT	10/30/91	9:20		/	/			WELL	4	/	
5	RIVER GROVE	10/30/91	10:10		/	/			WELL	4	/	

TRANSFER NUMBER	RELINQUISHED BY	DATE/TIME	ACCEPTED BY
1st	[signature]	10/28 1440	Ron Bamford
2nd	Ron Bamford	10-30 16:30	Ruth Zekowicz
3rd			

ADDITIONAL REMARKS

COOLER #s

SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1024

ORLANDO LABORATORIES INC.

P.O. Box 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

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

Work Order # : 91-08-504
Date Received: 08/29/91
Date Reported: 10/02/91
OLI Contact: L_BALTZLEY

Attn: Paul Thompson

Work ID: River Grove
Samples collected by: Client
Total Samples: 1

SAMPLE IDENTIFICATION
01 River Grove Dist.

TEST CODES and NAMES used on this report
PWS026 Turbidity Analysis
PWS030 Inorganic Analysis
PWS031 Secondary Chem. Analysis

Copy of report to:

Jerry Boyd
Post Office 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 # 91-08-504

SAMPLE ID River Grove Dist.
DATE COLLECTED 08/29/91 10:00:00
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			0.97	EPA 180.1	08/30/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-504

SAMPLE ID River Grove Dist.
DATE COLLECTED 08/29/91 10:00:00
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	09/01/91
1010	Barium			<0.100	EPA 200.7	0.100	09/04/91
1015	Cadmium			<0.005	EPA 213.2	0.005	09/04/91
1020	Chromium			<0.010	EPA 218.2	0.010	09/04/91
1025	Fluoride			0.211	EPA 340.2	0.1	09/04/91
1030	Lead			<0.010	EPA 239.2	0.010	09/02/91
1035	Mercury			<0.0005	EPA 245.1	0.0005	09/04/91
1040	Nitrate (as N)			<0.03	EPA 352.2	0.03	08/30/91
1045	Selenium			<0.005	EPA 270.2	0.005	09/01/91
1050	Silver			<0.010	EPA 272.2	0.010	09/01/91
1052	Sodium			70.0	EPA 200.7	1.00	09/04/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-504

SAMPLE ID River Grove Dist.
DATE COLLECTED 08/29/91 10:00:00
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			70.0	EPA 200.7	1.0	09/04/91
1017	Chloride			211	SM 407	1.0	09/03/91
1019	Carbonate CaCO3			NOT ANALYZED			
1021	Hydroxide CaCO3			NOT ANALYZED			
1022	Copper			0.013	EPA 200.7	0.010	09/04/91
1023	Bicarbonate CaCO3			NOT ANALYZED			
1025	Fluoride			0.211	EPA 340.2	0.1	09/04/91
1026	Bicarbonate HCO3			NOT ANALYZED			
1027	Hydrogen Sulfide			NOT ANALYZED			
1028	Iron			0.150	EPA 200.7	0.100	09/04/91
1031	Magnesium			34.0	EPA 200.7	1.0	09/04/91
1032	Manganese			<0.030	EPA 200.7	0.030	09/04/91
1055	Sulfate			52.8	EPA 375.4	1.0	09/10/91
1095	Zinc			<0.050	EPA 200.7	0.050	09/04/91
1901	Carbon Dioxide			7.0	SM 406 C	1.0	09/11/91
1905	Color (color units)			<5.0	EPA 270.2	5 PCU	08/30/91
1915	Total Hardness			313.3	EPA 200.7	6.60	09/04/91
1917	NCH as CaCO3			NOT ANALYZED			
1920	Odor			4	EPA 140.1	1	08/30/91
1924	Field pH (units)			NOT ANALYZED			
1925	Lab pH (units)			7.47	EPA 150.1	N/A	08/30/91
1926	Field Conductivity			NOT ANALYZED			

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-504
Continued From Above

SAMPLE ID River Grove Dist.
DATE COLLECTED 08/29/91 10:00:00
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			107	EPA 310.1	2.0	09/11/91
1930	TDS			382	EPA 160.1	1.0	09/04/91
1931	Phenolphthalein Alk.			<2.0	EPA 310.1	2.0	08/30/91
1996	Field Temp. (C)			NOT ANALYZED			
1997	Langlier Index pHs			7.6	CALC	N/A	09/18/91
1998	Saturation Index			-0.1	CALC	N/A	09/18/91
1999	Stability Index			7.7	CALC	N/A	09/18/91
2909	Foaming Agents			<0.10	EPA 425.1	0.1	08/30/91
9996	Field DO			NOT ANALYZED			
9997	Field Chlorine			NOT ANALYZED			

Comments:

Southern States Utilities
Attn: Paul Thompson

Report No: 91-08-504
Page: 6

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Arsenic	2	82	09/01/91	CFG
Silver	9	106	09/01/91	CFG
Selenium	7	99	09/01/91	CFG
Lead	16	92	09/02/91	RJW
Mercury	2	103	09/04/91	LG
Barium	<1	100	09/04/91	TWB
Cadmium	2	99	09/04/91	TWB
Chromium	1	100	09/04/91	TWB
Sodium	<1	93	09/04/91	TWB
Copper	<1	100	09/04/91	TWB
Iron	3	97	09/04/91	TWB
Manganese	<1	103	09/04/91	TWB
Zinc	1	100	09/04/91	TWB
Calcium	<1	91	09/04/91	TWB
Magnesium	<1	100	09/04/91	TWB
Turbidity	4	N/A	08/30/91	JPN
Color	<1	N/A	08/30/91	JPN
Odor	<1	N/A	08/30/91	PE
pH	1	N/A	08/30/91	RG
MBAS	9	100	08/30/91	RG/PE
Nitrite Nitrogen	1	102	08/30/91	RAW
Total Alkalinity	3	101	09/11/91	PE
Fluoride	2	103	09/04/91	RG
Nitrate Nitrogen	<1	102	08/30/91	RAW
Chloride	<1	116	09/03/91	JPN
Sulfate	3	100	09/10/91	PE
TDS	2	N/A	09/04/91	RG

NOTES:

Lead high relative percent difference of duplicates due to analyte concentrations being near instrument detection limit (variance).

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 2540959
Public Water System Name: River Grove District
Public Water System Type (check one):
(X) Community ( ) Non-community ( ) Special Non-community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity Analysis, Inorganic Analysis, and Secondary Chemical Analysis

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 08/29/91
Laboratory Sample Number: 91-08-504
Sample Location: (Not furnished by client)
Sample Type (check all applicable):
( ) Check (X) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residence Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Ron Beaumgardner
(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 10/3/91

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 149[illegible] Orlando, FL 32814
[illegible]

CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page _____ of _____

1	2	3
SSV SERVICES 1000 COLOR PLACE APOPKA, FL	CONTACT PERSON PHONE # INVOICE	OLI WORK ORDER # (LAB USE) 9108504
ORIGINAL REPORT TO / ADDRESS / CITY STATE ZIP: SSV SERVICES P.O. BOX 458 POMONA PARK, FL 32181	4 CONTACT PERSON PHONE # REPORT: PAUL THOMPSON	RB NUMBER & AR[illegible]: 4872
(OPTIONAL) ADDITIONAL REPORT TO / ADDRESS / CITY STATE ZIP		17 NUMBER OF CONTAINERS
8 CLIENT PROJECT NAME	9 CLIENT PROJECT # BOW 113212	

10 SAMPLE IDENTIFICATION	11 DATE TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	16 REQUESTED ANALYSIS: TURBIDITY; PRIMARY INORGANICS; SECONDARY STANDARDS	REMARKS 19
RIVER GROVE	8-29-91 9:10AM		✓	✓			DIST	6	✓ ✓ ✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY	20 ADDITIONAL REMARKS	21 COOLER #s
1st	[signature]	8/27 0955	[signature] 8-27-91		
2nd	[signature]	8-29-91 1200	[signature] 8-29		
3rd	[signature]	8-29 3:15	[signature]	22 SAMPLER'S SIGNATURE	

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1032

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 # : 91-08-524
Date Received: 08/30/91
Date Reported: 09/09/91
OLI Contact: J_BEATO

Work ID: River Grove
Samples collected by: Client
Total Samples: 2

SAMPLE IDENTIFICATION
01 River Grove Dist.
02 Method Blank

TEST CODES and NAMES used on this report
PWS029 Organic Chemical Analysis

Copy of report to:

Southern States Utilities
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

Dedicated To Excellence

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

ORLANDO LABORATORIES,INC.
Received: 08/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-524

SAMPLE ID River Grove Dist.
DATE COLLECTED 08/30/91 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		EPA 608	0.00010	09/04/91
2010	Lindane			<0.00005		EPA 608	0.00005	09/04/91
2015	Methoxychlor			<0.00050		EPA 608	0.00050	09/04/91
2020	Toxaphene			<0.00100		EPA 608	0.00100	09/04/91
2105	2,4-D			<0.0020		EPA 615	0.0020	09/04/91
2110	2,4,5-TP (Silvex)			<0.0010		EPA 615	0.0010	09/04/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/30/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-524

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

SAMPLE# 02A
MATRIX METHOD BL
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	09/04/91
2010	Lindane			<0.00005		EPA 608	0.00005	09/04/91
2015	Methoxychlor			<0.00050		EPA 608	0.00050	09/04/91
2020	Toxaphene			<0.00100		EPA 608	0.00100	09/04/91
2105	2,4-D			<0.0020		EPA 615	0.0020	09/04/91
2110	2,4,5-TP (Silvex)			<0.0010		EPA 615	0.0010	09/04/91

Comments:

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 09-06-1991

LAB SAMPLE # : 9108305-01B
ANALYSIS DATE : 09/04/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	101	101	100	100	1
HEPTACHLOR	100	0	114	114	111	111	3
ALDRIN	100	0	100	100	97	97	3
DIELDRIN	100	0	121	121	119	119	2
ENDRIN	100	0	116	116	119	119	3
4,4-DDT	100	0	120	120	116	116	3

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 : 09-06-1991

LAB SAMPLE # : 9108305-01A
ANALYSIS DATE : 09/04/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
PICLORAM	100	0	116	116	124	124	7
2,4,5-TP (silver)	100	0	99	99	104	104	5

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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 2540959
Public Water System Name: River Grove
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

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

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 08/30/91
Laboratory Sample Number: 91-08-524
Sample Location: NOT SUPPLIED
Sample Type (check all applicable):
( ) Check (X) 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): 09/04/91 (608, 615)
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 [signature]

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 9/9/91

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 148127 Orlando FL 32814
(407) 896-6441 FAX (407) 896-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page _____ of _____

1 INVOICE TO (COMPANY AND INDIVIDUAL) ADDRESS (CITY, STATE, ZIP)	2 CONTACT PERSON PHONE # INVOICE	3 OLI WORK ORDER # (LAB USE)
SSU Services 1000 Color Place Apopka, Fl. 32703		918524
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) ADDRESS (CITY, STATE, ZIP)	**5 CONTACT PERSON/PHONE # REPORT**	**6 PO NUMBER (LAB USE)**
SSU Services P.O. Box 458 Pomona Park, Fl. 32181	Paul Thompson's	
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO ADDRESS (CITY, STATE, ZIP)		**17 NUMBER OF CONTAINERS**
8 CLIENT PROJECT NAME	**9 CLIENT PROJECT # PO#** [redacted] 113212	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: Pb, Mn, Org-Pb	19 REMARKS
River Grove	8/30 7:30 AM		✓	✓			DIST	1	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	Baigl	8/30/91-10:00 AM	Ron Bayer
2nd	X Ron Bayer	8/30 16:30	DeeDee Homan
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1039

ORLANDO LABORATORIES INC

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

Der Jan

REPORT OF ANALYSIS

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

Report #: 52436 (5979)
Sample submitted by: Client *
Date sampled: 06-15-88 @ 1200 hrs. *
Date received: 06-16-88
Date reported: 07-07-88
Page 1 of 10

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: River Grove.
PROCEDURE: EPA METHOD 624 2340939

RESULTS, ug/l

PURGEABLE ORGANICS BY GC/MS	RESULTS
Benzene	ND(1)
Bromodichloromethane	5
Bromoform	5
Bromomethane	ND(1)
Dibromomethane	ND(1)
Chlorobenzene	ND(1)
Chloroethane	ND(1)
2-Chloroethylvinyl ether	ND(1)
Chloroform	4
Chloromethane	ND(1)
Dibromochloromethane	9
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)

VOC
sent 7-21-88
TTHM .023 mg/l ok
VOC-ok SOC-ok Purg-not all Bell Pest BN-AE all Bell

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

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Martin A. Zinaw
Laboratory Manager

Quality Control

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

The Analytical Specialists

Southern States Utilities
Attn: Aaron Perlowich

Report #: 52436 (5979)
Page 8 of 10

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

RESULTS, pCi/l

DETERMINATION	STORET #	RIVER GROVE
Gross Alpha	#01051	4.3
Counting error	#01502	±4.7

RESULTS, mg/l

DETERMINATION	ENTRY POINT TO DISTRIBUTION
Total Dissolved Solids, TDS	610
pH, units	7.3
Corrosivity Saturation index	-0.60 corrosive
Total Alkalinity, $CaCO_3$	49
Sodium, Na	84
Turbidity, NTU	2.3 mcl 1.0
Calcium Hardness, $CaCO_3$	175

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 1 58 PM '91

12/5

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: River Grove SYSTEM I.D. NO: 2540959 SYSTEM PHONE #: 649-4143

ADDRESS: River 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 8:30am

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:

12/6

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	[illegible]	M	A		
2	Dist 1 275 R Dr.	.6		[illegible]		A		
3	Dist 2 101 W St Johns	.4		[illegible]		(P) (2)	(P)	(P)
							DEC 12 1991	

* 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

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: _____

Form 680, Jan 91 (Obsoletes previous editions which may not be used) (Stock Number 0160-000-0681-1)

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
RL.
DEC 3 33 '91

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Rich Johns SYSTEM I.D. NO: 2540959 SYSTEM PHONE #: 649-4143

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

COLLECTOR: R White COLLECTOR PHONE #: 649-4143

SAMPLE SITE (Locality or Subdivision): Subdivision

DATE AND TIME COLLECTED: 12-9-91 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 (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
Dist. #1 ✓	Lot 3 Block D	.4	—	~~55171~~ 571		A		
#2 ✓	101 W. St. Johns (Lot 1 Block D)	.4	—	~~55172~~ 572		A		
#3 ✓	Lot 5 Blk D	.4	~	~~55173~~ 573		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
A - Coliforms are absent TNTC - Too numerous to count

Blanca R. Rodriguez, Engineer
Dept. of Env. Regulation

INTERPRETATIONS-REMARKS BY PROGRAM REVIEWER

DEC 16 1991
DEC 27 199

( )
(✓) 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 604, Jan 91 (Obsolete previous editions which may not be used) (Stock Number 5760-000-0601-6)

River Park - 439

Putnam County (SSU)

Water

- 1992 FPSC Filing -

River Park

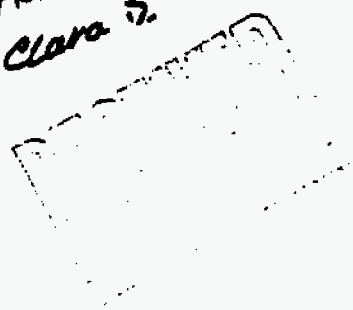
Chemical Analyses

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	8/91
Organic	7/91
Volatile Organic Chemicals	1/91
	4/91
	7/91
	10/91
Turbidity	8/91
Microbiological	12/91
Radionuclide	3/88
Secondary Contaminants	8/91
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

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
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 B. Flowers, Ph.D.
Technical Director

Jefferson L. Flowers, Ph.D.
Jefferson B. Flowers, Ph.D.
484 NEWPORT
P.O. BOX
ALTAMONTE
FLORIDA
BUS
FAX

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: 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.
441 NEWPORT
P.O. BOX
ALTAMONTE
FLORIDA
BUS
FAX

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.
P.O. BOX
FLORIDA

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 S. Flowers, Ph.D.
Jefferson S. Flowers, Ph.D.
4A1 NEWBERRY CIR
P.O. BOX 150 597
ALTAMONTE SPRINGS
FLORIDA 32715 0597
BUS (407) 332-4414

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	Dichlorodifluoromethane	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)
(PWS038)

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	2544250
#2	River Park #1	#439[1]	2540962
	River Park #2	#439[2]	2540963
	River Park #3	#439[3]	2540964
	Wootens	#446	2541280
#3	Ramona 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)649-1141.

Thank you,

Paul D. Thompson

Lead Operator, Putnam County

DOH Services

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
SSU
PO Box 458
PomonaPrk,FL 32181

Date Reported: Apr29 1991
PO Number: P91028
PO Number SSU Serv.

FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
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.

Jeffrey S. Flowers, Ph.D.
Technical Director

Jeffrey S. Flowers, Ph.D.
Jeffrey 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 River 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) 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 16690
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 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 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 6190

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name River Grove
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 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 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 5/9/91

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:

ANALYTICAL & CONSULTING SERVICES
CHAIN OF CUSTODY RECORD
DRINKING WATER

(1) Client	(2) Address	(3) Phone
SSU SERVICES	P.O. BOX 468 Pomona PARK 32181	(904)649-4143

(4) Public Drinking Water ID #:
(5) Public Water System Name:
(6) Project #:
(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 Bag	40ml	250ml	500ml	1L	VOA	VOA	

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

(9) Relinquished: (10) Date (10) Time
(11) Received (11) Date (11) 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,
(X) raw, (X) well, ( ) resample ( ) special
SAMPLER'S NAME: PAM D. THOMPSON TITLE: OPERATOR IV PHONE: (904)649-4143
SAMPLER'S SIGNATURE:

(12) Parameter Group(s) Analyzed: Turbidity__; Inorganic__; Bacteriological__; Volatile Organics__;
Inorganic Chemical__; Secondary Chemical__; Radiological__; Unregulated Organic Purgeable__;
Unregulated Organic Pesticide__; Unregulated Base/Neutral Extractable__; Unregulated Acid Extractable__;

(14) Laboratory Number	(15) Client Sample Identification
16779	#1 2540963 Pomona Park
	#2 2540962
	#3 2541290 Hampton
	#4 2541180
	#5 2540964
	#6 2540964
	#7 2540964
	#8 2540964 Pomona Park (2)
	#9 2540964
	#10 2540964

(16) Collectors Signature: Date 4-25-91 Time 9:30
(17) Transporters Signature:
(18) Lab Acceptance By: Brenda Goldsby Date 4-25-91 Time 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

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-15

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

SAMPLE# 010
MATRIX WATER
TEST CODE ILORC

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		

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

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07 475

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 # 91-07-475

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

SAMPLE# 02A
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 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: River Grove
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) 898-6588

CHAIN-OF-CUSTODY RECORD
(INSTRUCTIONS ON BACK)

Page 2 of 5

1 INVOICE TO (COMPANY AND INDIVIDUAL) / ADDRESS (CITY, STATE, ZIP)	2 CONTACT PERSON/PHONE # INVOICE	3 DLI 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 D. 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
# 2140962 RIVER PARK #1	7/30/91 11:30		✓				WELLS	4	✓	
# 2140963 RIVER PARK #2	7/30/91 11:30		✓				WELLS	4	✓	
# 2140964 RIVER PARK #3	7/30/91 11:30		✓				WELLS	8	✓	
WOODLANDS	7/31/91 11:30		✓				WELLS	4	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st		7/29 1350	7/31/91 8:00A
2nd		7/31 1100	
3rd			

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1069

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 15

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

SAMPLE# 01A
MATRIX WATER
TEST CODE ICUMP

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 # 91-10 155

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

SAMPLE# 01A
MATRIX WATER
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	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 # 91-10 475

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

SAMPLE# 02A
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:

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: 2540962
Public Water System Name: River Park #1
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

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 2540964
Public Water System Name: River Park #3
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 14912 Orlando, FL 32814
407 896 6645 FAX (407) 896-6588

CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page ____ of ____

1 INVOICE TO (COMPANY AN. INDIVIDUAL) ADDRESS (CITY STATE ZIP)		2	3 LAB WORK ORDER # (LAB USE)
SS J SERVICES P.O. BOX 458 POMONA PARK FL 32181			9110435
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL) ADDRESS (CITY STATE ZIP)		4	5 PO NUMBER (LAB USE)
SAME			5587
(OPTIONAL) ADDITIONAL REPORTS SENT TO ADDRESS (CITY STATE ZIP)		7	17 NUMBER OF CONTAINERS
8 CLIENT PROJECT NAME	9 ~~CLIENT PROJECT~~ PO # L114422		

	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
1	WOOTENS	12:10	10/24/91		✓	✓			WELL	4	✓	
2	RIVER PARK #1	11:40	10/30/91		✓	✓			WELL	4	✓	
345	RIVER PARK #3	12:30	10/30/91		✓	✓			WELLS	12	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	10/28/1440	[signature]
2nd	[signature]	1030 1630	[signature]
3rd			

20 ADDITIONAL REMARKS

21 COOLER #s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1078

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 # : 91-08-502
Date Received: 08/29/91
Date Reported: 09/13/91
OLI Contact: L_BALTZLEY

Work ID: River Park
Samples collected by: Client
Total Samples: 1

SAMPLE IDENTIFICATION
01 River Park #1

TEST CODES and NAMES used on this report
PWS026 Turbidity Analysis
PWS030 Inorganic Analysis
PWS031 Secondary Chem. Analysis

Copy of report 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 Halarek
QUALITY CONTROL

ORLANDO LABORATORIES, INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 08 [illegible]

SAMPLE ID River Park #1
DATE COLLECTED 08/29/91 11:00:00
TEST NAME Turbidity Analysis

SAMPLE# 014
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			5.8	EPA 180.1	08/30/91

Comments:

ORLANDO LABORATORIES, INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-502

SAMPLE ID River Park #1
DATE COLLECTED 08/29/91 11:00:00
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	09/01/91
1010	Barium			<0.100	EPA 200.7	0.100	09/04/91
1015	Cadmium			<0.005	EPA 213.2	0.005	09/04/91
1020	Chromium			<0.010	EPA 218.2	0.010	09/04/91
1025	Fluoride			0.200	EPA 340.2	0.1	09/04/91
1030	Lead			<0.010	EPA 239.2	0.010	09/02/91
1035	Mercury			<0.0005	EPA 245.1	0.0005	09/04/91
1040	Nitrate (as N)			<0.03	EPA 352.2	0.03	08/30/91
1045	Selenium			<0.005	EPA 270.2	0.005	09/01/91
1050	Silver			<0.010	EPA 272.2	0.010	09/01/91
1052	Sodium			9.50	EPA 200.7	1.00	09/04/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-507

SAMPLE ID River Park #1
DATE COLLECTED 08/29/91 11:00:00
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			84.0	EPA 200.7	1.0	09/04/91
1017	Chloride			13.1	SM 407	1.0	09/03/91
1019	Carbonate CaCO3			NOT ANALYZED			
1021	Hydroxide CaCO3			NOT ANALYZED			
1022	Copper			<0.010	EPA 200.7	0.010	09/04/91
1023	Bicarbonate CaCO3			NOT ANALYZED			
1025	Fluoride			0.200	EPA 340.2	0.1	09/04/91
1026	Bicarbonate HCO3			NOT ANALYZED			
1027	Hydrogen Sulfide			NOT ANALYZED			
1028	Iron			0.230	EPA 200.7	0.100	09/04/91
1031	Magnesium			13.0	EPA 200.7	1.0	09/04/91
1032	Manganese			<0.030	EPA 200.7	0.030	09/04/91
1055	Sulfate			<1.0	EPA 375.4	1.0	09/10/91
1095	Zinc			<0.050	EPA 200.7	0.050	09/04/91
1901	Carbon Dioxide			4.2	SM 406 C	1.0	09/11/91
1905	Color (color units)			10	EPA 270.2	5 PCU	08/30/91
1915	Total Hardness			263.0	EPA 200.7	6.60	09/04/91
1917	NCH as CaCO3			NOT ANALYZED			
1920	Odor			1	EPA 140.1	1	08/30/91
1924	Field pH (units)			NOT ANALYZED			
1925	Lab pH (units)			8.02	EPA 150.1	N/A	08/30/91
1926	Field Conductivity			NOT ANALYZED			

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08 502
Continued From Above

SAMPLE ID River Park #1
DATE COLLECTED 08/29/91 11:00:00
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			239	EPA 310.1	2.0	09/11/91
1930	TDS			268	EPA 160.1	1.0	09/04/91
1931	Phenolphthalein Alk.			NOT ANALYZED			
1996	Field Temp. (C)			NOT ANALYZED			
1997	Langlier Index pHs			7.2	CALC	N/A	09/12/91
1998	Saturation Index			0.8	CALC	N/A	09/12/91
1999	Stability Index			6.4	CALC	N/A	09/12/91
2909	Foaming Agents			<0.10	EPA 425.1	0.1	08/30/91
9996	Field DO			NOT ANALYZED			
9997	Field Chlorine			NOT ANALYZED			

Comments:

Southern States Utilities
Attn: Paul Thompson

Report No: 91-08-502
Page No: 6

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Arsenic	2	82	09/01/91	CFG
Silver	9	106	09/01/91	CFG
Selenium	7	99	09/01/91	CFG
Lead*	16	92	09/02/91	RJW
Mercury	2	103	09/04/91	LG
Barium	<1	100	09/04/91	TWB
Cadmium	2	99	09/04/91	TWB
Chromium	1	100	09/04/91	TWB
Sodium	<1	93	09/04/91	TWB
Copper	<1	100	09/04/91	TWB
Iron	3	97	09/04/91	TWB
Manganese	<1	103	09/04/91	TWB
Zinc	1	100	09/04/91	TWB
Calcium	<1	91	09/04/91	TWB
Magnesium	<1	100	09/04/91	TWB
Turbidity	4	N/A	08/30/91	JPN
Color	<1	N/A	08/30/91	JPN
Odor	<1	N/A	08/30/91	PE
pH	1	N/A	08/30/91	RG
MBAS	9	100	08/30/91	RG/PE
Nitrite Nitrogen	1	102	08/30/91	RAW
Total Alkalinity	3	97	09/11/91	PE
Fluoride	2	103	09/04/91	RG
Nitrate Nitrogen	<1	102	08/30/91	RAW
Chloride	<1	96	09/03/91	JPN
Sulfate	3	100	09/10/91	PE
Total Dissolved Solids	2	N/A	09/04/91	RG

*Note:
High relative percent difference of duplicates for Lead due to analyte concentration being near instrument detection limit (variance).

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 2540962
Public Water System Name: River Park #1
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity Analysis
Inorganic Analysis
Secondary Chem. Analysis

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 08/29/91
Laboratory Sample Number: 91-08-502
Sample Location: Not Supplied
Sample Type (check all applicable):
( ) Check (x) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Ron Beaumgardner
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 9/13/91

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 1495 - Orlando, FL 32814
(407) 898-[illegible]

CHAIN-OF-CUSTODY RECORD

(INSTRUCTIONS ON BACK)

Page _____ of _____

1 SSU SERVICES 1000 COLDR PLACE APOPKA FL	2 CONTACT PERSON/PHONE # INVOICE	3 OLI WORK ORDER # / REFERENCE 9108502
4 ORIGINAL REPORT TO: SSU SERVICES P.O. BOX 458 PIERSON PARK FL 32181	CONTACT PERSON/PHONE # REPORT: PAUL THOMAS	PB NUMBER (LAB USE) 4872
5 (OPTIONAL) ADDITIONAL REPORT TO:		
7 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: TKN, NO3, PHOSPHATE (ORTHO), CHLORIDES, STANDARD	19 REMARKS
RIVER PARK #1	3/28/91 11:00		✓	✓			POR 113217 DIST	6	1 1 1	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	3/27 0955	[signature] 3/28/91
2nd	[signature]	3/29 12:10	Ron Bagan 8:29
3rd	Ron Bagan	8-29 3:15	Dedee Homan

20 ADDITIONAL REMARKS

21 COOLER #s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1086

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 # : 91-08-501
Date Received: 08/29/91
Date Reported: 09/13/91
OLI Contact: L_BALTZLEY

Work ID: River Park
Samples collected by: Client
Total Samples: 1

SAMPLE IDENTIFICATION
01 River Park #3

TEST CODES and NAMES used on this report
PWS026 Turbidity Analysis
PWS030 Inorganic Analysis
PWS031 Secondary Chem. Analysis

Copy of report 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: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-501

SAMPLE ID River Park #3
DATE COLLECTED 08/29/91 11:15:00
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			2.1	EPA 180.1	08/30/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-501

SAMPLE ID River Park #3
DATE COLLECTED 08/29/91 11:15:00
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	09/01/91
1010	Barium			<0.100	EPA 200.7	0.100	09/04/91
1015	Cadmium			<0.005	EPA 213.2	0.005	09/04/91
1020	Chromium			<0.010	EPA 218.2	0.010	09/04/91
1025	Fluoride			0.211	EPA 340.2	0.1	09/04/91
1030	Lead			<0.010	EPA 239.2	0.010	09/02/91
1035	Mercury			<0.0005	EPA 245.1	0.0005	09/04/91
1040	Nitrate (as N)			<0.03	EPA 352.2	0.03	08/30/91
1045	Selenium			<0.005	EPA 270.2	0.005	09/01/91
1050	Silver			<0.010	EPA 272.2	0.010	09/01/91
1052	Sodium			7.50	EPA 200.7	1.00	09/04/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-501

SAMPLE ID River Park #3
DATE COLLECTED 08/29/91 11:15:00
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			80.0	EPA 200.7	1.0	09/04/91
1017	Chloride			26.1	SM 407	1.0	09/03/91
1019	Carbonate CaCO3			NOT ANALYZED			
1021	Hydroxide CaCO3			NOT ANALYZED			
1022	Copper			<0.010	EPA 200.7	0.010	09/04/91
1023	Bicarbonate CaCO3			NOT ANALYZED			
1025	Fluoride			0.211	EPA 340.2	0.1	09/04/91
1026	Bicarbonate HCO3			NOT ANALYZED			
1027	Hydrogen Sulfide			NOT ANALYZED			
1028	Iron			0.540	EPA 200.7	0.100	09/04/91
1031	Magnesium			13.0	EPA 200.7	1.0	09/04/91
1032	Manganese			<0.030	EPA 200.7	0.030	09/04/91
1055	Sulfate			<1.0	EPA 375.4	1.0	09/10/91
1095	Zinc			<0.050	EPA 200.7	0.050	09/04/91
1901	Carbon Dioxide			4.3	SM 406 C	1.0	09/11/91
1905	Color (color units)			30	EPA 270.2	5 PCU	08/30/91
1915	Total Hardness			252.0	EPA 200.7	6.60	09/04/91
1917	NCH as CaCO3			NOT ANALYZED			
1920	Odor			8	EPA 140.1	1	08/30/91
1924	Field pH (units)			NOT ANALYZED			
1925	Lab pH (units)			7.95	EPA 150.1	N/A	08/30/91
1926	Field Conductivity			NOT ANALYZED			

ORLANDO LABORATORIES,INC.
Received: 08/29/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-08-501
Continued From Above

SAMPLE ID River Park #3
DATE COLLECTED 08/29/91 11:15:00
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			203	EPA 310.1	2.0	09/11/91
1930	TDS			262	EPA 160.1	1.0	09/04/91
1931	Phenolphthalein Alk.			NOT ANALYZED			
1996	Field Temp. (C)			NOT ANALYZED			
1997	Langlier Index pHs			7.2	CALC	N/A	09/12/91
1998	Saturation Index			0.8	CALC	N/A	09/12/91
1999	Stability Index			6.4	CALC	N/A	09/12/91
2909	Foaming Agents			<0.10	EPA 425.1	0.1	08/30/91
9996	Field DO			NOT ANALYZED			
9997	Field Chlorine			NOT ANALYZED			

Comments:

Southern States Utilities
Attn: Paul Thompson

Report No: 91-08-501
Page No: 6

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Arsenic	2	82	09/01/91	CFG
Silver	9	106	09/01/91	CFG
Selenium	7	99	09/01/91	CFG
Lead*	16	92	09/02/91	RJW
Mercury	2	103	09/04/91	LG
Barium	<1	100	09/04/91	TWB
Cadmium	2	99	09/04/91	TWB
Chromium	1	100	09/04/91	TWB
Sodium	<1	93	09/04/91	TWB
Copper	<1	100	09/04/91	TWB
Iron	3	97	09/04/91	TWB
Manganese	<1	103	09/04/91	TWB
Zinc	1	100	09/04/91	TWB
Calcium	<1	91	09/04/91	TWB
Magnesium	<1	100	09/04/91	TWB
Turbidity	4	N/A	08/30/91	JPN
Color	<1	N/A	08/30/91	JPN
Odor	<1	N/A	08/30/91	PE
pH	1	N/A	08/30/91	RG
MBAS	9	100	08/30/91	RG/PE
Nitrite Nitrogen	1	102	08/30/91	RAW
Total Alkalinity	3	97	09/11/91	PE
Fluoride	1	100	09/04/91	RG
Nitrate Nitrogen	<1	102	08/30/91	RAW
Chloride	<1	116	09/03/91	JPN
Sulfate	3	100	09/10/91	PE
Total Dissolved Solids	2	N/A	09/04/91	RG

*Note:
High relative percent difference of duplicates for Lead due to analyte concentration being near instrument detection limit (variance).

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 2540964
Public Water System Name: River Park #3
Public Water System Type (check one):
(X) Community ( ) Non-Community ( ) Special Non-Community

LABORATORY CERTIFICATION INFORMATION
Lab Certification Number: 83141
Parameter Group(s) Analyzed: Turbidity Analysis
Inorganic Anlaysis
Secondary Chem. Analysis

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

SAMPLE INFORMATION
Sample Date (MMDDYY): 08/29/91
Laboratory Sample Number: 91-08-501
Sample Location: Not Supplied
Sample Type (check all applicable):
( ) Check (X) Regular Distribution ( ) Composite
( ) Clearance ( ) Maximum Residue Time ( ) Plant Tap
( ) Raw ( ) Well ( ) Re-sample
( ) Special
Sampler Name, Title, Phone: Ron Beaumgardner
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____; Tribalomethane____;
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 [signature]

Name Eric Malarek

Title Quality Control Officer

Laboratory Orlando Laboratories, Inc.

Date 9/13/91

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 149127 • Orlando, Florida 32814

REPORT OF ANALYSIS

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

Attn: Paul Thompson

Work Order # : 91-07-379
Date Received: 07/24/91
Date Reported: 08/05/91
OLI Contact: L_BALTZLEY

Work ID: Putnam County
Samples collected by: Client
Total Samples: 6

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this report
01 River Park 439 #3	FC_COL Fecal Coliform Bact. MF
02 River Park 439 #1	NO3_N Nitrogen, Nitrate
03 River Park 439 WW Upstream	PWS029 Organic Chemical Analysis
04 River Park 439 WW Dwstream	TKN Nitrogen, Total Kjeldahl
05 Trip Blank	
06 Method Blank	

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

ORANGO LABORATORIES, INC.
Received: 07/24/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-379

SAMPLE ID River Park 439 #1
DATE COLLECTED 07/24/91 10:55:00
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	07/25/91
2010	Lindane			<0.00005		EPA 608	0.00005	07/25/91
2015	Methoxychlor			<0.00050		EPA 608	0.00050	07/25/91
2020	Toxaphene			<0.00100		EPA 608	0.00100	07/25/91
2105	2,4-D			<0.0020		EPA 615	0.0020	07/25/91
2110	2,4,5-TP (Silvex)			<0.0010		EPA 615	0.0010	07/25/91

Comments:

ENLAND LABORATORIES, INC.
Received: 07/24/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91-07-[illegible]

SAMPLE ID River Park 439 #3
DATE COLLECTED 07/24/91 10:40:00
TEST NAME Organic Chemical Analysis

SAMPLE # 01A
MATRIX WATER
TEST CODE ENO[illegible]

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	07/25/91
2010	Lindane			<0.00005	EPA 608	0.00005	07/25/91
2015	Methoxychlor			<0.00050	EPA 608	0.00050	07/25/91
2020	Toxaphene			<0.00100	EPA 608	0.00100	07/25/91
2105	2,4-D			<0.0020	EPA 615	0.0020	07/25/91
2110	2,4,5-TP (Silvex)			<0.0010	EPA 615	0.0010	07/25/91

Comments:

CE ANDU LABORATORIES, INC.
Received: 07/24/91

REPORT OF ANALYSIS
Results by Sample

Work Order # 91 07 79

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

SAMPLE# 06A
MATRIX METHOD BLANK
TEST CODE PW5029

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	07/25/91
2010	Lindane			<0.00005		EPA 608	0.00005	07/25/91
2015	Methoxychlor			<0.00050		EPA 608	0.00050	07/25/91
2020	Toxaphene			<0.00100		EPA 608	0.00100	07/25/91
2105	2,4 D			<0.0020		EPA 615	0.0020	07/25/91
2110	2,4,5-TP (Silvex)			<0.0010		EPA 615	0.0010	07/25/91

Comments:

ORLANDO LABORATORIES,INC.
Received: 07/24/91

REPORT OF ANALYSIS
NonReported Work

Work Order # 91-07-473

FRACTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

05A : NOTEST

Southern States Utilities
Attn: Paul Thompson

Report No: 91-07-379
Page No: 7

QUALITY CONTROL DATA SHEET

PARAMETER	DUPLICATES % DIFFERENCE	SPIKES % RECOVERY	DATE	ANALYST
Nitrogen, Nitrite	<1	115	07/25/91	RG
Nitrogen, Nitrate	2	91	07/31/91	RAW
TKN	2	107	07/31/91	RAW

Fecal Coliform: Set date 07/24/91 at 1620 hours
Read date 07/25/91 at 1635 hours

ORLANDO LABORATORIES, INC.

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 07-25-1991

LAB SAMPLE # : 9107375-01A
ANALYSIS DATE : 07/25/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
PICLORAM	100	0	90	90	81	81	11
2,4,5-TP (silvex)	100	0	86	86	84	84	2

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

GC ORGANICS

MATRIX SPIKE RESULTS

MATRIX : WATER
REPORT DATE : 07-26-1991

LAB SAMPLE # : 9107385-15A
ANALYSIS DATE : 07/25/91

COMPOUND	AMOUNT SPIKED	SAMPLE RESULT	MS RESULT	MS % RECOVERY	MSD RESULT	MSD% RECOVERY	RPD
GAMMA-BHC (LINDANE)	100	0	88	88	83	83	6
HEPTACHLOR	100	0	94	94	94	94	0
ALDRIN	100	0	89	89	83	83	7
DIELDRIN	100	0	94	94	91	91	3
ENDRIN	100	0	103	103	96	96	7
4,4-DDT	100	0	113	113	119	119	5

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.
P.O. Box 149127, 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)	2 CONTACT PERSON/PHONE # INVOICE	3 OLI WORK ORDER # (LAB USE)
SSU SERVICES	1000 COLOR PLACE APOPKA FL		9107379
4 ORIGINAL REPORT TO (COMPANY AND INDIVIDUAL)	**ADDRESS (CITY, STATE, ZIP)**	**5 CONTACT PERSON/PHONE # REPORT**	**6 PO NUMBER (LAB USE)**
SSU SERVICES	P.O. BOX 458 POMONA PARK 32181	PAUL THOMPSON	#591
7 (OPTIONAL) ADDITIONAL REPORTS SENT TO	**ADDRESS (CITY, STATE, ZIP)**		

8 CLIENT PROJECT NAME	9 CLIENT PROJECT #
PUTNAM COUNTY	

10 SAMPLE IDENTIFICATION	11 DATE/TIME	12 COMP	GRAB	WATER	SOIL	OTHER	13 SAMPLE DESCRIPTION	17 NUMBER OF CONTAINERS	18 REQUESTED ANALYSIS: PRIMARY ORGANICS	Nitrate	Fecal	TKN	19 REMARKS
RIVER PARK 4M #3	7-24-91 10:40AM		✓	✓			PRIMARY ORGANICS	7	✓				
RIVER PARK 4M #1	7-24-91 10:55AM		✓	✓			PRIMARY ORGANICS	7	✓				
RIVER PARK 4M WW	7-24-91 11:00		✓				upstream	4		✓	✓	✓	
							downstream	4		✓	✓	✓	

TRANSFER NUMBER	14 RELINQUISHED BY	15 DATE/TIME	16 ACCEPTED BY
1st	[signature]	7/18 1130	[signature]
2nd	[signature]	7/24/91 11:15AM	Ron Bergen
3rd	Ron Bergen	7/24 13:15	Deedee Thomas

20 ADDITIONAL REMARKS

21 COOLER #'s

22 SAMPLER'S SIGNATURE

ORIGINAL - LAB
YELLOW - FILE
PINK - CLIENT

1102

ORLANDO LABORATORIES INC.

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

Plant #439

REPORT OF ANALYSIS

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

Report #: 51961 (5309)
Sample submitted by: Client(D. Corder) *
Date sampled: 03-31-88 *
Date received: 03-31-88
Date reported: 04-22-88
Date revised: 05-24-88
Page 1 of 10

PURPOSE: To analyze the samples for listed parameters
AUTHORIZATION: Sample Identification Form received from client 03-31-88
SAMPLE IDENTIFICATION: Samples submitted and identified by client as:
#1. River Park I Distribution #2. River Park III Distribution
PROCEDURE: EPA METHOD 624

RESULTS, ug/l

PURGEABLE ORGANICS BY GC/MS	#1	#2
Benzene	ND(1)	ND(1)
Bromodichloromethane	ND(1)	3
Bromoform	ND(1)	ND(1)
Bromomethane	ND(1)	ND(1)
Dibromomethane	ND(1)	ND(1)
Chlorobenzene	ND(1)	ND(1)
Chloroethane	ND(1)	ND(1)
2-Chloroethylvinyl ether	ND(1)	ND(1)
Chloroform	15	34
Chloromethane	ND(1)	ND(1)
Dibromochloromethane	ND(1)	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	ND(1)	ND(1)
Styrene	ND(1)	ND(1)

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

Respectfully submitted,
ORLANDO LABORATORIES, INC.

Martin A. Zenar
Laboratory Manager

Marcelle Louise 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.	#1	#2
1,1,2,2-Tetrachloroethane	ND(1)	ND(1)
Dichloromethane	ND(1)	ND(1)
Toluene	ND(1)	ND(1)
1,1-Dichloropropene	ND(1)	ND(1)
1,1,2-Trichloroethane	ND(1)	ND(1)
1,3-Dichloropropane	ND(1)	ND(1)
Trichlorofluoromethane	ND(1)	ND(1)
Bromobenzene	ND(1)	ND(1)
meta - Xylene	ND(1)	ND(1)
ortho, para - Xylenes	ND(1)	ND(1)
1,2-Dibromo-3-chloropropane	ND(1)	ND(1)
Dichlorodifluoromethane	ND(1)	ND(1)
GC/MS VOLATILE SCAN		
Acrolein	ND(100)	ND(100)
Acrylonitrile	ND(100)	ND(100)
n-Hexane	ND(10)	ND(10)
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)

PROCEDURE: EPA METHOD 625

ACID EXTRACTABLE ORGANICS BY GC/MS		
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(10)	ND(10)
2-Methyl-4,6-dinitrophenol	ND(10)	ND(10)
2-Nitrophenol	ND(10)	ND(10)
4-Nitrophenol	ND(10)	ND(10)
Pentachlorophenol	ND(10)	ND(10)
Phenol	ND(10)	ND(10)
2,4,6-Trichlorophenol	ND(10)	ND(10)

PROCEDURE: EPA METHOD 625

BASE/NEUTRAL EXTRACTABLES BY GC/MS	#1	#2
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(10)	ND(10)
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)

PROCEDURE: EPA METHOD 625

BASE/NEUTRAL EXTRACTABLES BY GC/MS	#1	#2
Hexachlorobenzene	ND(10)	ND(10)
Hexachlorobutadiene	ND(10)	ND(10)
Hexachlorocyclopentadiene	ND(10)	ND(10)
Hexachloroethane	ND(10)	ND(10)
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(10)	ND(10)
1,2,4-Trichlorobenzene	ND(10)	ND(10)

PROCEDURE: EPA METHOD 608

ORGANOCHLORINE PESTICIDES		
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)

PROCEDURE: EPA METHOD 608

ORGANOCHLORINE PESTICIDES - Cont.	#1	#2
Alpha-Chlordane	ND(1)	ND(1)
Gamma-Chlordane	ND(1)	ND(1)
Kelthane	ND(1)	ND(1)
Toxaphene	ND(5)	ND(5)
POLYCHLORINATED BIPHENYLS, PCB's		
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

ORGANOPHOSPHORUS PESTICIDES		
Diazinon	ND(50)	ND(50)
Ethion	ND(50)	ND(50)
Guthion (Azinphos methyl)	ND(50)	ND(50)
Malathion	ND(50)	ND(00)
Parathion	ND(50)	ND(50)
Tedion	ND(10,000)	ND(10,000)
Trithion (Carbophenothion)	ND(50)	ND(50)

PROCEDURE: EPA METHOD 900

MISCELLANEOUS		
Gross Alpha, pCi/l, Storet #01501	1.0	<0.5
Counting error, pCi/l, Storet #01502	±2.3	±0.4

MISCELLANEOUS	RIVER PARK I RAW	RIVER PARK III WELL 1	RIVER PARK III WELL 2
Ethylene Dibromide, EDB (ug/l)	ND(0.02)	ND(0.02)	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)	RIVER PARK I	UNITS
Chloride, Cl	(250)	20	mg/l
Color	(15)	10	PCU
Foaming Agents, (MBAS)	(0.5)	<0.10	mg/l
Sulfate, SO_4	(250)	<1.0	mg/l
Total Dissolved Solids	(500)	325	mg/l
pH (Laboratory)	(6.5-8.5)	8.0	units
Odor Threshold	(3)	1	units
Copper, Cu	(1.0)	<0.010	mg/l
Iron, Fe	(0.3)	0.482	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, $CaCO_3$		231	mg/l
Carbonate Alkalinity, $CaCO_3$		0	mg/l
Bicarbonate Alkalinity, $CaCO_3$		231	mg/l
Carbonates, $CaCO_3$		0	mg/l
Bicarbonates, HCO_3		282	mg/l
Hydroxides, as OH		0	mg/l
Carbon Dioxide, CO_2		4.3	mg/l
Fluoride, F		0.20	mg/l
pHs		7.2	units
Stability Index		6.6	units
Specific Conductance, umhos		451	umhos
Hydrogen Sulfide, H_2S (F-F)		0.11	mg/l
Nitrate Nitrogen, NO_3-N		<0.03	mg/l
Total Hardness, $CaCO_3$		253	mg/l
Magnesium Hardness, $CaCO_3$		49.0	mg/l
Calcium Hardness, $CaCO_3$		204	mg/l
Calcium, Ca		81.5	mg/l
Magnesium, Mg		11.9	mg/l

MISCELLANEOUS	ENTRY TO DISTRIBUTION	
Corrosivity	0.6	units
Sodium, Na	13	mg/l
Turbidity	3.6	NTU

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)	RIVER PARK III	UNITS
Chloride, Cl	(250)	23	mg/l
Color	(15)	20	PCU
Foaming Agents, (MBAS)	(0.5)	<0.10	mg/l
Sulfate, SO_4	(250)	<1.0	mg/l
Total Dissolved Solids	(500)	295	mg/l
pH (Laboratory)	(6.5-8.5)	8.0	units
Odor Threshold	(3)	1	units
Copper, Cu	(1.0)	<0.010	mg/l
Iron, Fe	(0.3)	0.619	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, $CaCO_3$		202	mg/l
Carbonate Alkalinity, $CaCO_3$		0	mg/l
Bicarbonate Alkalinity, $CaCO_3$		202	mg/l
Carbonates, $CaCO_3$		0	mg/l
Bicarbonates, HCO_3		246	mg/l
Hydroxides, as OH		0	mg/l
Carbon Dioxide, CO_2		4.0	mg/l
Fluoride, F		0.22	mg/l
pHs		7.3	units
Stability Index		6.6	units
Specific Conductance, umhos		417	umhos
Hydrogen Sulfide, H_2S (F-F)		0.14	mg/l
Nitrate Nitrogen, NO_3-N		<0.03	mg/l
Total Hardness, $CaCO_3$		238	mg/l
Magnesium Hardness, $CaCO_3$		48.1	mg/l
Calcium Hardness, $CaCO_3$		190	mg/l
Calcium, Ca		76.2	mg/l
Magnesium, Mg		11.7	mg/l

MISCELLANEOUS	ENTRY TO DISTRIBUTION	
Corrosivity	0.7	units
Sodium, Na	5.4	mg/l
Turbidity	1.8	NTU

PURPOSE: To analyze the samples 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	RIVER PARK I	RIVER PARK III
Arsenic, As	0.05	<0.010	<0.010
Barium, Ba	1.0	<0.100	<0.100
Cadmium, Cd	0.010	<0.005	<0.005
Chromium, Cr	0.05	<0.010	<0.010
Lead, Pb	0.05	<0.010	<0.010
Mercury, Hg	0.002	<0.0005	<0.0005
Selenium, Se	0.01	<0.005	<0.005
Silver, Ag	0.05	<0.010	<0.010
Fluoride, F	2.0	0.20	0.22
Nitrate Nitrogen, NO_3-N	10	<0.03	<0.03

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

ND = Not detected to the levels in parentheses.
MCL = Maximum Contaminant Level.

QUALITY CONTROL DATA SHEET

DUPLICATES:

PARAMETER	% DIFFERENCE	DATE	ANALYST
Arsenic	2.4	04-11-88	C.G.
Barium	<1.0	04-11-88	C.G.
Cadmium	7.7	04-13-88	A.H.
Chromium	1.3	04-14-88	A.H.
Lead	5.8	04-15-88	C.G.
Mercury	<1.0	04-09-88	J.H.
Selenium	6.5	04-15-88	C.G.
Silver	4.4	04-15-88	A.H.
Calcium	<1.0	04-18-88	J.H.
Magnesium	1.6	04-18-88	J.H.
Iron	<1.0	04-12-88	C.G.
Manganese	<1.0	04-15-88	C.G.
Copper	<1.0	04-14-88	J.H.
Zinc	<1.0	04-13-88	J.H.
Color	<1.0	04-06-88	M.S.
MBAS	<1.0	04-06-88	M.S.
Sulfate	4.1	04-06-88	J.B.
TDS	<1.0	04-02-88	J.B.
pH	1.1	04-01-88	J.B.
Odor	<1.0	04-06-88	B.D.
Total Alkalinity	<1.0	04-01-88	J.B.
Fluoride	3.3	04-01-88	J.B.
Hydrogen Sulfide	1.2	04-01-88	J.B.
Nitrates	<1.0	04-01-88	B.D.
Sodium	<1.0	04-07-88	M.S.
Turbidity	<1.0	04-06-88	M.S.
Specific Conductance	<1.0	04-09-88	J.B.
2,4-D	11	04-01-88	C.O.
2,4,5-TP	6.7	04-01-88	C.O.
Lindane	6.8	04-08-88	C.O.
Endrin	4.0	04-08-88	C.O.
Methoxychlor	6.8	04-08-88	C.O.
Malathion	11	04-10-88	C.O.
Trithion	9.4	04-10-88	C.O.
Ethion	6.0	04-10-88	C.O.
EDB	3.2	04-03-88	C.O.
Gross Alpha	12	04-16-88	J.B.

QUALITY CONTROL DATA SHEET

SPIKES:

PARAMETER	% RECOVERY	DATE	ANALYST
Arsenic	94	04-11-88	C.G.
Barium	102	04-11-88	C.G.
Cadmium	97	04-13-88	A.H.
Chromium	99	04-14-88	A.H.
Lead	105	04-15-88	C.G.
Mercury	97	04-09-88	J.H.
Selenium	106	04-15-88	C.G.
Silver	102	04-15-88	A.H.
Calcium	101	04-18-88	J.H.
Magnesium	101	04-18-88	J.H.
Iron	98	04-12-88	C.G.
Manganese	106	04-15-88	C.G.
Copper	106	04-14-88	J.H.
Zinc	100	04-13-88	J.H.
MBAS	81	04-06-88	M.S.
Sulfate	92/96	04-06-88	J.B.
TDS	100/100	04-02-88	J.B.
Total Alkalinity	100/99	04-01-88	J.B.
Fluoride	102/105	04-01-88	J.B.
Hydrogen Sulfide	88/89	04-01-88	J.B.
Nitrates	113/113	04-01-88	B.D.
Sodium	100	04-07-88	M.S.
Specific Conductance	100/100	04-09-88	J.B.
2,4-D	100	04-01-88	C.O.
2,4,5-TP	101	04-01-88	C.O.
Lindane	113	04-08-88	C.O.
Endrin	98	04-08-88	C.O.
Methoxychlor	114	04-08-88	C.O.
Malathion	105	04-10-88	C.O.
Trithion	106	04-10-88	C.O.
Ethion	117	04-10-88	C.O.
EDB	93	04-03-88	C.O.
Gross Alpha	140	04-16-88	J.B.
Gross Alpha	123	04-16-88	J.B.

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

T.D. NO. 13003
RECEIVED
DEC 4 1 57 PM '91
BY: [illegible]

12/5

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: River Park #1 SYSTEM I.D. NO: 2540916 SYSTEM PHONE #: 649-4143

ADDRESS: Hayward Dr. 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 [illegible] 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		7.4	05216	M	A		
2	Dist. 1 [illegible]	.2		05217		A		
3	Dist. 2 [illegible]	.2		05218		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

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

REVIEWING OFFICIAL: _____

TITLE: _____

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

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

HRS Form 865, Jan 91 (Obsoletes previous editions which may not be used) (Stock Number 5760-002-0865-4)

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
DEC 4 1 57 PM '91
12/5

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: River Park #3 SYSTEM I.D. NO: 3540916 SYSTEM PHONE #: 649-4143

ADDRESS: Iowa St. COUNTY: Putnam DER DISTRICT: 2

COLLECTOR: R Brown COLLECTOR PHONE #: 649-4143

SAMPLE SITE (Locality or Subdivision): Subdivision

DATE AND TIME COLLECTED: 12/4/91 8:15

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
[X] Raw [ ] Turbid
[ ]

REMARKS:

A

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		7.5	051650	M	A		
2	Well #2		7.5	051651	M	A		
3	Well #3		7.5	051652	M	A		
4	Dist 1 Lot 210	.2		051653		A		
5	Dist 2 Lot 430	.2		051654		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
Dept. of Env. Regulation

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

REVIEWING OFFICIAL: _____

TITLE: _____

HRS Form 886, Jan 91 (Obsolete previous editions which may not be used) (Stock Number: 5740-000-0886-6)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

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

Rolling Green - 985

Citrus County (SSU)

Water

- 1992 FPSC Filing -

Rolling Green

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	8/91
Organic	8/91
Volatile Organic Chemicals	1/91
	3/91
	7/91
	10/91
Turbidity	8/91
Microbiological	12/91
Radionuclide	8/91
Secondary Contaminants	8/91
Unregulated Contaminants	1/91

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
CitrusSprg.Util.
9840 CitrusSprg Blvd
CitrusSprg,FL 32630

Date Reported: Sep 4 1991
PO Number: Rolling Green
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#2
Date Received: Aug 8 1991 Lab Number : 17468

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17468
Turbidity	NTU	0.05	95.0	1.94	0.92
Arsenic	mg/L	0.0005	95.3	1.72	<0.0005
Barium	mg/L	0.01	115	5.55	0.03
Cadmium	mg/L	0.001	103	.598	<0.001
Chromium	mg/L	0.005	102	.087	<0.005
Fluoride	mg/L	0.05	110	1.46	0.0907
Lead	mg/L	0.001	101	.000	<0.001
Mercury	mg/L	0.0002	99.9	.683	0.00162
Nitrate(as N)	mg/L	0.01	135	8.61	0.95
Selenium	mg/L	0.0005	122	4.50	<0.0005
Silver	mg/L	0.005	94.9	.047	<0.005
Sodium	mg/L	0.002	115	.634	5.01
Endrin	mg/L	0.000001	100	4.37	<0.000001
Lindane	mg/L	0.000001	94.9	2.89	<0.000001
Methoxychlor	mg/L	0.00001	102	4.16	<0.00001
Toxaphene	mg/L	0.0001	102	2.91	<0.0001
2,4-D	mg/L	0.00005	93.0	6.84	<0.00005
2,4,5-TP(Silvex)	mg/L	0.00002	91.5	12.4	<0.00002
Calcium	mg/L	0.1	103	.110	57.8
Chloride	mg/L	0.015	156	.811	10.3
Carbonate CaCO3	mg/L	0.1	103		143
Hydroxide CaCO3	mg/L	0.1			-
Copper	mg/L	0.005	100.	.264	0.035
Bicarbonate CaCO3	mg/L	0.1			141.9
Bicarbonate HCO3	mg/L	0.1			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.
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:
CitrusSprg.Util.
9840 CitrusSprg Blvd
CitrusSprg,FL 32630

Date Reported: Sep 4 1991
PO Number: Rolling Green
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FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: WELL#2
Date Received: Aug 8 1991 Lab Number : 17468

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17468
Iron	mg/L	0.01	102	.667	0.727
Magnesium	mg/L	0.01	94.0	.208	2.15
Manganese	mg/L	0.005	104	.000	0.206
Sulfate	mg/L	0.2	90.2	.009	5.07
Zinc	mg/L	0.001	108	.087	0.06
Carbon_Dioxide	mg/L	0.1			3.6
Color (color units)	mg/L	5	-	.000	20
Total_Hardness	mg/L	0.1			153.01
NCH_as_CaCO3	mg/L	0.1			10.01
Odor (total odor num	TON	1	-	-	<1
Field pH (units)	pH	0.01			-
Lab pH (units)	pH	0.01	100	.243	7.89
Field Conductivity	umhos/c	0.1			-
Total Alkalinity	mg/L	0.1	103	.400	143
TDS	mg/L	2.5	99.3	.210	463
Phenolphthalein Alk.	mg/L	0.1			-
Field Temp. (C)	oC	1			25
Langelier_Index	LX	0.01			0.43
Saturation_Index	pHs	0.01			7.46
Stability_Index	pH	0.01			7.03
Foaming_Agents	mg/L	0.1	98.0	-	<0.1
Field DO	mg/L	0.1			-
Field Chlorine	mg/L	0.1			-
Gross alpha incl. Ra	pCi/L	0.1			1.5

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

Johnson L. Rogers, Ph.D
Johnson S. Rogers, Ph.D.
481 NEWBURYPORT
P.O. BOX 150-597
ALTAMONTE SPRINGS
FLORIDA 32715-0597
BUS (407) 339-5984
FAX (407) 260-6190

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Rolling Green
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_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 17468
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 8/19/91
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 9/3/91

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	17468	1	.920	EPA180.1	0.05	8/22/91

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	17468	0.05	<0.0005	EPA206.3	0.0005	8/14/91
1010	Barium	17468	1	.0300	EPA208.1	0.01	8/9/91
1015	Cadmium	17468	0.01	<0.001	EPA213.1	0.001	8/9/91
1020	Chromium	17468	0.05	<0.005	EPA218.1	0.005	8/9/91
1025	Fluoride	17468	4	.0907	EPA340.1	0.05	8/12/91
1030	Lead	17468	0.05	<0.001	EPA239.2	0.001	8/12/91
1035	Mercury	17468	0.002	.00162	EPA245.1	0.0002	8/19/91
1040	Nitrate(as N)	17468	10	.950	EPA353.1	0.01	08-12-91
1045	Selenium	17468	0.01	<0.0005	EPA270.3	0.0005	8/12/91
1050	Silver	17468	0.05	<0.005	EPA272.1	0.005	8/9/91
1052	Sodium	17468	160	5.10	EPA273.1	0.002	8/12/91

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	17468	0.0002	<.000001	EPA508	.000001	8/19/91
2010	Lindane	17468	0.004	<.000001	EPA508	.000001	8/19/91
2015	Methoxychlor	17468	0.1	<0.00001	EPA508	0.00001	8/16/91
2020	Toxaphene	17468	0.005	<0.0001	EPA508	0.0001	8/19/91
2105	2,4-D	17468	0.1	<0.00005	EPA515	0.00005	8/16/91
2110	2,4,5-TP(Silvex)	17468	0.01	<0.00002	EPA515	0.00002	8/16/91

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	17468		57.8	EPA215.1	0.1	8/12/91
1017	Chloride	17468	250	10.3	EPA300.0	0.015	08-13-91
1019	Carbonate CaCO3	17468		143.0	SM314A	0.1	8/12/91
1021	Hydroxide CaCO3	17468		0.0	SM406C	0.1	8/12/91
1022	Copper	17468	1	.0350	EPA220.1	0.005	8/12/91
1023	Bicarbonate CaCO3	17468		141.9	SM406C	0.1	8/12/91
1026	Bicarbonate HCO3	17468		1.0	SM406C	0.1	8/12/91

1027	Hydrogen Sulfide	17468			EPA376.1	0.5	
1028	Iron	17468	0.3	.727	EPA236.1	0.01	8/9/91
1031	Magnesium	17468		2.15	EPA242.1	0.01	8/12/91
1032	Manganese	17468	0.05	.206	EPA243.1	0.005	8/9/91
1055	Sulfate	17468	250	5.07	EPA300.0	0.200	8/9/91
1095	Zinc	17468	5	.0600	EPA289.1	0.001	8/12/91
1901	Carbon Dioxide	17468		3.6	SM406C	0.1	8/12/91
1905	Color (color units)	17468	15	20.0	EPA110.1	5	8/20/91
1915	Total Hardness	17468		153.1	SM314A	0.1	8/12/91
1917	NCH as CaCO3	17468		10.1	SM314A	0.1	8/12/91
1920	Odor (total odor number	17468	3	<1	EPA140.1	1	8/20/91
1924	Field pH (units)	17468	6.5-8.5		EPA150.1	0.01	
1925	Lab pH (units)	17468	6.5-8.5	7.89	EPA150.1	0.01	8/12/91
1926	Field Conductivity	17468			-	0.1	
1927	Total Alkalinity	17468		143	EPA310.1	0.1	8/12/91
1930	TDS	17468	500	463	EPA160.1	2.5	8/15/91
1931	Phenolphthalein Alk.	17468			EPA310.1	0.1	
1996	Field Temp. (C)	17468		25	-	1	8/12/91
1997	Langelier Index	17468	-0.2:+0.2	0.43	SM203	0.01	8/12/91
1998	Saturation Index	17468		7.46	SM203	0.01	8/12/91
1999	Stability Index	17468		7.03	SM203	0.01	8/12/91
2909	Foaming Agents	17468	0.5	<0.1	EPA425.1	0.1	8/14/91
9996	Field DO	17468			-	0.1	
9997	Field Chlorine	17468			-	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	17468	5	1.5	EPA900	0.1	9/3/91

Comments:

ANALYTICAL & CONSULTING CHEMISTS

CHAIN OF CUSTODY RECORD

PUBLIC WATER 17-999

ATTN: Bob Williams

(1) Client	(2) Address	(3) Phone
Citrus Springs Util.	9540 Citrus Springs Blvd. Citrus Springs, Fl. 32630	1-489-2452

(4) Public Drinking Water ID # 6094587 (5) Public Water System Name: Rolling Greens

(6) Project # Rolling Greens (7) Public Water System Type

(8) PO# ( ) Community ( ) Non-Community ( ) Special Non-Community

	Preservative			Plastic Containers					Glass Containers					NOTES: (9) Turn Around Time: 10 Working Days: 5 Working Days: 3 Working Days: 1 Working Day: Other:
	HNO3	H2SO4		60ml	125ml	250ml	500ml	1L	40ml	120ml	500ml	1L		
2	✓						✓							
3		✓						✓						
									✓					

(10) Sample Relinquished: (11) Date 8/6/91 (11) Time 12:15

(10) Sample Received (11) Date (11) Time

SAMPLE INFORMATION: SAMPLE DATE: MONTH 8 DAY 6 YEAR 91

SAMPLE TYPE: (check all app.) ( ) composite, ( ) discrete ( ) mixed, ( ) regulatory compliance, ( ) residence time, ( ) plant tap, (✓) raw, (✓) well, ( ) reservoir, ( ) special

SAMPLER'S NAME: JOHN E MACKENZIE TITLE: OPERATOR II PHONE: 1-489-2452

SAMPLER'S SIGNATURE: John E MacKenzie

NOTES:

#545

Primary I.D.

Sec. TB

Cox 1.

(12) Parameter Group(s) Analyzed: Turbidity ✓ Inorganic ✓ Trihalomethanes ✓ Volatile Organic ✓ Organic Chemical ✓ Secondary Chemical ✓ Radiological ✓ Unregulated Organic Purgeable ✓ Unregulated Organic Pesticide ✓ Unregulated Base Neutral Extractable ✓ Unregulated Acid Extractable ✓

(13) Laboratory Number	(14) Client Sample Identification
17468	#1 ALL FROM WELL #2 Rolling Greens
	#2
	#3
	#4
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(15) Collector's Signature:	John E MacKenzie	8/6/91	12:15
(16) Transporter's Signature:		8/8/91	5:40
(17) Lab Acceptance By:			

SSU SERVICES

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

To Clare

March 5, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the first quarterly tests taken for volatile organics, unregulated organic purgeables, unregulated organic pesticide, unregulated base neutral extractable and unregulated acid extractable per DER Drinking Water Standards 17550 for the following water plants in Citrus County. Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Golden Terrace composite, Oak Forest, Rosemont and Rolling Green composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.B. Williams

R.B. Williams, General Manager
Pine Ridge & SSU County Plants

RBW:sr

Attachments

cc: Charles L. Sweat
Chris Arcand
Frank Sanderson
File

FLOWERS

[redacted]

FLOWERS

[redacted]

CHEMICAL LABORATORIES INCORPORATED

Received From:

Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991

PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
Ethylene dibromide	mg/L	0.000005	91.6	5.28	<0.000005
Para-dichlorobenzene	mg/L	0.001	113	.036	<0.001
Vinyl chloride	mg/L	0.001	94.1	.527	<0.001
1,1-dichloroethene	mg/L	0.001	94.1	.527	<0.001
1,2-dichloroethane	mg/L	0.001	106	.265	<0.001
1,1,1-trichloroethan	mg/L	0.001	98.6	.063	<0.001
Carbon tetrachloride	mg/L	0.001	98.7	.458	<0.001
Trichloroethene	mg/L	0.001	107	.537	<0.001
Tetrachloroethene	mg/L	0.001	112	.160	<0.001
Benzene	mg/L	0.001	103	4.19	<0.001
Chloromethane	mg/L	0.001	111	1.29	<0.001
Dichlorodifluorometh	mg/L	0.001	98.7	.458	<0.001
Bromomethane	mg/L	0.001	111	1.29	<0.001
Chloroethane	mg/L	0.001	94.1	.527	<0.001
Trichlorofluorometha	mg/L	0.001	98.7	.458	<0.001
trans-1,3,-dichlorop	mg/L	0.001	92.6	1.14	<0.001
cis-1,3-dichloroprop	mg/L	0.001	104	.694	<0.001
Methyl-tert-butyleth	mg/L	0.001	117	1.54	<0.001
cis-1,2-dichloroethe	mg/L	0.001	104	.694	<0.001
Dibromomethane	mg/L	0.001	111	1.29	<0.001
1,1-dichloropropene	mg/L	0.001	102	0.91	<0.001
1,3-dichloropropane	mg/L	0.001	92.6	1.14	<0.001
1,2,3-trichloropropa	mg/L	0.001	114	2.92	<0.001
2,2-dichloropropane	mg/L	0.001	94.1	.527	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	114	2.92	<0.001
Chloroform	mg/L	0.001	98.3	.628	<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.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
Dinoseb	mg/L	0.00001	106	3.28	<0.00001
Aldicarb sulfoxide	mg/L	0.002	95.0	7.44	<0.002
Aldicarb sulfone	mg/L	0.002	100	7.86	<0.002
Metolachlor	mg/L	0.0005	108	4.60	<0.0005
Carbofuran	mg/L	0.001	96.0	5.24	<0.001
Aldicarb	mg/L	0.002	97.7	0.00	<0.002
Atrazine	mg/L	0.002	101	0.65	<0.002
Alachlor (Lasso)	mg/L	0.0002	107	3.91	<0.0002
Heptachlor	mg/L	0.000005	107	3.99	<0.000005
Aldrin	mg/L	0.00007	109	5.35	<0.00007
Dieldrin	mg/L	0.00001	107	4.26	<0.00001
Dicamba	mg/L	0.00001	108	4.64	<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	100	0.02	<0.001
Dioxin	mg/L	0.00001	98.2	3.23	<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	93.5	3.97	<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) 260-6172

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprngs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
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	99.7	3.44	<0.0001
PCB-1254	mg/L	0.0001	106	3.18	<0.0001
PCB-1260	mg/L	0.0001	94.0	3.69	<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 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: Rolling Green - 6094587 — Rosemont-6094905
Public Water System Name _____ OAK FOREST - 6091214
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_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 16099
Sample Location (be specific): Rolling Green Well 1 + 2 - Rosemont Well 1 - Oak Forest Well 1+2
Sample Type (check all applicable):
( )Check ( )Regular Distribution (✓)Composit
( )Clearance ( )Maximum Residence Time ( )Plant Tap
(✓)Raw (✓)Well ( )Resampl
( )Special_____
Sampler Name, Title Phone: John MacKenzie Operator
904 - 489 - 2452

ANALYSIS INFORMATION
Extraction Date 2/1/91
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 2/15/91

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	16099	.00002	<.000005	EPA504.1	.000005	2/7/91
2969	Para-dichlorobenzene	16099	.075	<0.001	EPA502.2	0.001	2/1/91
2976	Vinyl chloride	16099	0.001	<0.001	EPA502.2	0.001	2/1/91
2977	1,1-dichloroethene	16099	0.007	<0.001	EPA502.2	0.001	2/1/91
2980	1,2-dichloroethane	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2981	1,1,1-trichloroethane	16099	0.2	<0.001	EPA502.2	0.001	2/1/91
2982	Carbon tetrachloride	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2984	Trichloroethene	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2987	Tetrachloroethene	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2990	Benzene	16099	0.001	<0.001	EPA502.2	0.001	2/1/91

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	16099		<0.001	EPA502.2	0.001	2/1/91
2212	Dichlorodifluoromethan	16099		<0.001	EPA502.2	0.001	2/1/91
2214	Bromomethane	16099		<0.001	EPA502.2	0.001	2/1/91
2216	Chloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2218	Trichlorofluoromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2224	trans-1,3.-dichloroprop	16099		<0.001	EPA502.2	0.001	2/1/91
2228	cis-1.3-dichloropropene	16099		<0.001	EPA502.2	0.001	2/1/91
2251	Methyl-tert-butylether	16099		<0.001	EPA502.2	0.001	2/1/91
2380	cis-1,2-dichloroethene	16099		<0.001	EPA502.2	0.001	2/1/91
2408	Dibromomethane	16099		<0.001	EPA502.2	0.001	2/1/91
2410	1,1-dichloropropene	16099		<0.001	EPA502.2	0.001	2/1/91
2412	1,3-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2414	1,2,3-trichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2416	2,2-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2931	1,2-dibromo-3-chloropr	16099		<0.001	EPA502.2	0.001	2/1/91
2941	Chloroform	16099		<0.001	EPA502.2	0.001	2/1/91
2942	Bromoform	16099		<0.001	EPA502.2	0.001	2/1/91
2943	Bromodichloromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2944	Dibromochloromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2962	p-xylene	16099		<0.001	EPA502.2	0.001	2/1/91
2964	Methylene chloride	16099		<0.001	EPA502.2	0.001	2/1/91
2965	o-chlorotoluene	16099		<0.001	EPA502.2	0.001	2/1/91
2966	p-chlorotoluene	16099		<0.001	EPA502.2	0.001	2/1/91
2967	m-dichlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2968	o-dichlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2978	1,1-dichloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2979	trans-1,2-dichloroethyl	16099		<0.001	EPA502.2	0.001	2/1/91
2983	1,2-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2985	1,1,2-trichloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2986	1,1,1,2-tetrachloroetha	16099		<0.001	EPA502.2	0.001	2/1/91
2988	1,1,2,2-tetrachloroetha	16099		<0.001	EPA502.2	0.001	2/1/91
2989	Chlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91

2991	Toluene	16099	<0.001	EPA502.2	0.001	2/1/91
2992	Ethylbenzene	16099	<0.001	EPA502.2	0.001	2/1/91
2993	Bromobenzene	16099	<0.001	EPA502.2	0.001	2/1/91
2995	m-xylene	16099	<0.001	EPA502.2	0.001	2/1/91
2996	Styrene	16099	<0.001	EPA502.2	0.001	2/1/91
2997	o-xylene	16099	<0.001	EPA502.2	0.001	2/1/91

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	16099		<.000001	EPA515	.000001	2/14/91
2036	Oxamyl (Vydate)	16099		<0.002	EPA531	0.002	2/14/91
2037	Simazine	16099		<0.007	EPA505	0.007	2/14/91
2040	Picloram	16099		<0.00007	EPA515	0.00007	2/14/91
2041	Dinoseb	16099		<0.00001	EPA515	0.00001	2/14/91
2043	Aldicarb sulfoxide	16099		<0.002	EPA531	0.002	2/14/91
2044	Aldicarb sulfone	16099		<0.002	EPA531	0.002	2/14/91
2045	Metolachlor	16099		<0.0005	EPA505	0.0005	2/14/91
2046	Carbofuran	16099		<0.001	EPA531	0.001	2/14/91
2047	Aldicarb	16099		<0.002	EPA531	0.002	2/14/91
2050	Atrazine	16099		<0.002	EPA505	0.002	2/14/91
2051	Alachlor (Lasso)	16099		<0.0002	EPA505	0.0002	2/14/91
2065	Heptachlor	16099		<.000005	EPA508	.000005	2/14/91
2356	Aldrin	16099		<0.00007	EPA508	0.00007	2/14/91
2364	Dieldrin	16099		<0.00001	EPA508	0.00001	2/14/91
2440	Dicamba	16099		<0.00001	EPA515	0.00001	2/14/91
2959	Chlordane	16099		<0.00001	EPA508	0.00001	2/14/91
9114	Pentachlorophenol	16099		<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	16099		<0.001	EPA508	0.001	2/13/91
2063	Dioxin	16099		<0.00001	EPA613	0.00001	2/13/91
2262	Isophorone	16099		<0.001	EPA609	0.001	2/12/91
2270	2,4-dinitrotoluene	16099		<0.001	EPA609	0.001	2/12/91
2282	Dimethylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2284	Diethylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2290	Di-n-butylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2294	Butyl benzyl phthalate	16099		<0.001	EPA606	0.001	2/12/91
2298	Bis(2-ethylhexyl)phthal	16099		<0.001	EPA606	0.001	2/12/91
2378	1,2,4-trichlorobenzene	16099		<0.001	EPA612	0.001	2/12/91
2388	PCB-1016	16099		<0.0001	EPA505	0.0001	2/13/91
2390	PCB-1221	16099		<0.0001	EPA505	0.0001	2/13/91
2392	PCB-1232	16099		<0.0001	EPA505	0.0001	2/13/91
2394	PCB-1242	16099		<0.0001	EPA505	0.0001	2/13/91
2396	PCB-1248	16099		<0.0001	EPA505	0.0001	2/13/91
2398	PCB-1254	16099		<0.0001	EPA505	0.0001	2/13/91

2400	PCB-1260	16099	<0.0001	EPA505	0.0001	2/13/91
9089	Dioctylphthalate	16099	<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	16099		<0.001	EPA604	0.001	2/12/91
9112	2-methyl-4,6-dinitophe	16099		<0.001	EPA604	0.001	2/12/91
9115	Phenol	16099		<0.001	EPA604	0.001	2/12/91
9116	2,4,6-trichlorophenol	16099		<0.001	EPA604	0.001	2/12/91

Comments:

CHEMICAL LABORATORIES INCORPORATED

FDER Lab# E83018
FDHRS Lab# 85139
NCDEHNR Lab# 256
SCDHEC Lab# 99018

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

(1) Client: Citrus Springs Util.
(2) Address: 9840 W. Citrus Springs Blvd, Citrus Springs, Florida
(3) Phone: (904) 489-2452
(4) Public Drinking Water ID #: Rolling Green Well #2
(5) Public Water System Name: Rolling Green
(6) Project #: Citrus County
(7) PO#: 51001?
(8) Public Water System Type: (✓) Community ( ) Non-Community ( ) Special Non-Community

(9)	Preservative				Plastic Containers						Glass Containers						NOTES:
		HNO3	ZnOAc+NaOH		40ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
	18															X	
	511										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 23 YEAR 91
SAMPLE TYPE (check all applicable); ( ) check, ( ) regular distribution (✓) composite, ( ) clerance, ( ) max residence time, ( ) plant tap, ( ) raw, ( ) well, ( ) resample_____, ( ) special_____
SAMPLER'S NAME: J. MacKenzie TITLE: Consultant PHONE: (904) 489-2452
SAMPLER'S SIGNATURE: John C MacKenzie
NOTES:

Composite with Oak Forest well #2 / Norsemont well #1

(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
16099	#1 Rolling Green Well #1 GAC Tub
	#2 " " Well #1
	#3 " " Well #1
	#4 " " Well #1
	#5 " " Well #2 GAC Tub
	#6 " " Well #2
	#7 " " Well #2
	#8 " " Well #2
	#9
	#10

		Date	Time
(16) Collectors Signature:	John C MacKenzie	1/23/91	2:00
(17) Transporters Signature:	[illegible]	1/ /	
(19) Lab Acceptance By:		1/29/91	3:40

OVER FOR INSTRUCTIONS FOR COMPLETION

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Apr 9 1991
PO Number: 891018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2 RM-1 PG-1&2
Date Received: Mar 28 1991 Lab Number : 16562

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16562
Ethylene dibromide	mg/L	0.000005	82.8	12.3	<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	93.2	.469	<0.001

Date Release Authorization

Sample integrity and reliability certified by Lab personnel prior to analysis.
Methods of analysis in accordance with FDL DA 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

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	16562	.00002	<.000005	EPA504.1	.000005	4/8/91
2969	Para-dichlorobenzene	16562	.075	<0.001	EPA502.2	0.001	3/30/91
2976	Vinyl chloride	16562	0.001	<0.001	EPA502.2	0.001	3/30/91
2977	1,1-dichloroethene	16562	0.007	<0.001	EPA502.2	0.001	3/30/91
2980	1,2-dichloroethane	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2981	1,1,1-trichloroethane	16562	0.2	<0.001	EPA502.2	0.001	3/30/91
2982	Carbon tetrachloride	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2984	Trichloroethene	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2987	Tetrachloroethene	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2990	Benzene	16562	0.001	<0.001	EPA502.2	0.001	3/30/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Rolling Green - 6094587 - Rosemont - 6094905
Public Water System Name _____ OAK FOREST - 6091274
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 16562
Sample Location (be specific): Rolling Green Well 1&2 - Rosemont Well 1 OAK FOREST WELL 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: JOHN MACKENZIE 904-489-2452

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 4/8/91

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

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Springs
9840 N.CitrusSprgs.B
CitrusSprgs,FL 32630

Date Reported: Jul15 1991
PO Number: 891018
PO Number Citrus Co-900
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OAK FOREST / Rolling Green / Rosemont
Date Received: Jul 2 1991
Lab Number : 17251

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17251
Ethylene dibromide	mg/L	0.000005	107	7.00	<0.000005
Para-dichlorobenzene	mg/L	0.001	119	3.30	<0.001
Vinyl chloride	mg/L	0.001	93.7	.278	<0.001
1,1-dichloroethene	mg/L	0.001	93.7	.278	<0.001
1,2-dichloroethane	mg/L	0.001	97.3	1.54	<0.001
1,1,1-trichloroethan	mg/L	0.001	94.7	.774	<0.001
Carbon tetrachloride	mg/L	0.001	94.5	.112	<0.001
Trichloroethene	mg/L	0.001	99.0	.225	<0.001
Tetrachloroethene	mg/L	0.001	99.8	1.71	<0.001
Benzene	mg/L	0.001	97.0	.380	<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 4110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:
Public Water System Name Rolling Green
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 17251
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 7/12/91

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)
(PWS028)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	17251	.00002	<.000005	EPA504.1	.000005	7/12/91
2969	Para-dichlorobenzene	17251	.075	<0.001	EPA502.2	0.001	7/6/91
2976	Vinyl chloride	17251	0.001	<0.001	EPA502.2	0.001	7/6/91
2977	1,1-dichloroethene	17251	0.007	<0.001	EPA502.2	0.001	7/6/91
2980	1,2-dichloroethane	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2981	1,1,1-trichloroethane	17251	0.2	<0.001	EPA502.2	0.001	7/6/91
2982	Carbon tetrachloride	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2984	Trichloroethene	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2987	Tetrachloroethene	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2990	Benzene	17251	0.001	<0.001	EPA502.2	0.001	7/6/91

Comments:

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 CITRUS SPRINGS

Address 9540 N. CITRUS SPRINGS BLVD.
CITRUS SPRINGS, FL. 32630

Phone 904-489-2152

Sampled By (PRINT): JOHN MACKENZIE

Sampler Signature John MacKenzie Date Sampled 7/1/91

FCL Client No.

FCL Project Manager L. SEBECK

FCL Lab Coordinator S. WELSH

Requested Due Date: ASAP

P.O. Number

Project Name / No.

Contact

ITEM NO	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST
1	COMPOSIT OF ROLLING GLEN 1+2 BASEMENT WELL	11:00	D.W.	12751						VOC's
2	OAK FOREST 1+2	9:00								
3	COMPOSIT POW 1-2-3	11:00		12752						
4	GOLDEN TERRACE 1+2									
5	COMPOSIT APACHE SPRINGS 1+2 CRYSTAL RIVER 1+2 COMPOSIT	8:00	POSPIL	12753 ISLE 1						
6	PINE RIDGE 2+3	12:00		12754						

CARRIER	BAILERS	SHIP DATES OUT / DATE	SHIP DATES RETURNED / DATE
UPS		6/17/91	

SPECIAL INSTRUCTIONS

NO AIR IN VIALS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FCL	6/17/91	11:30			

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

1138

→ Rolling Green 142 ✓
Basement 1 Oak Forest 142

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
PO Box 217
Dunnellon,FL 32630

Date Reported: Oct15 1991
PO Number: B91018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Oct10 1991 Lab Number : 17957

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17957
Ethylene dibromide	mg/L	0.000005	107	1.55	<0.000005
Para-dichlorobenzene	mg/L	0.001	92.1	2.02	<0.001
Vinyl chloride	mg/L	0.001	109	2.55	<0.001
1,1-dichloroethene	mg/L	0.001	109	2.55	<0.001
1,2-dichloroethane	mg/L	0.001	108	4.12	<0.001
1,1,1-trichloroethan	mg/L	0.001	111	1.32	<0.001
Carbon tetrachloride	mg/L	0.001	109	.847	<0.001
Trichloroethene	mg/L	0.001	101	1.35	<0.001
Tetrachloroethene	mg/L	0.001	97.5	.548	<0.001
Benzene	mg/L	0.001	105	.244	<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) 260-6110

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	17957	.00002	<.000005	EPA504.1	.000005	10/11/91
2969	Para-dichlorobenzene	17957	.075	<0.001	EPA502.2	0.001	10/11/91
2976	Vinyl chloride	17957	0.001	<0.001	EPA502.2	0.001	10/11/91
2977	1,1-dichloroethene	17957	0.007	<0.001	EPA502.2	0.001	10/11/91
2980	1,2-dichloroethane	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2981	1,1,1-trichloroethane	17957	0.2	<0.001	EPA502.2	0.001	10/11/91
2982	Carbon tetrachloride	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2984	Trichloroethene	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2987	Tetrachloroethene	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2990	Benzene	17957	0.001	<0.001	EPA502.2	0.001	10/11/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:_____
Public Water System Name Rolling Green
Public Water System Type (check one):
( )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 17957
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 10/14/91

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

DER /ACPHU Reviewing Offical:

_____

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

CHEMICA LABORATORIES INCORPORATED

FDER Lab ES0016
FDHRS Lab E81129
NCDEHNR Lab 284
SCDHEC Lab 99016

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

ATTN: Bob Williams

(1)Client	(2)Address	(3)Phone
Citrus Springs Util.	P.O. Box 217 Dunnellon, FL. 32630	(904) 245-1504

(4)Public Drinking Water ID # | (5)Public Water System Name: Citrus Co. Composites

(6)Project: # Citrus Co. Composits | (8)Public Water System Type

MO# B91018 | (V) 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	(12)Turn Around Time: 10 Working Days: 5 Working Days : 3 Working Days : 1 Working Day : Other :
(16)	54										X						

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

VOC'S

(18)Laboratory Number	(11)Client Sample Identification
17957	#1 Composit of Rolling Green Wells 1+2 Oak Forest 1+2 Rosemont well 1
17958	#2 Composite of Row 1-2-3 Golden Terr. 1+2
17959	#3 Composite of Apache Shores 1+2 Croton River 1+2
17960	#4 Composit Pine Ridge 2+3
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(13)Collectors Signature:	John E Grace Jr.	10/8	4:00 PM
(14)Transporters Signature:			
(15)Lab Acceptance By:		10/10/91	10:10

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

FOR LAB USE ONLY

Gulf Coast Water Labs
5356 Hwy 19S.
Hernando, Fla 32646
Lab ID # 82349 John Purdin
12/3/91 10:30 AM

DRINKING WATER
BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Rolling Greens - SSU SYSTEM I.D. NO: 6094587 SYSTEM PHONE #: 1-489-245-

ADDRESS: Rolling Greens Inverness COUNTY: CITRUS DER DISTRICT: SW

COLLECTOR: John E MACKenzie COLLECTOR PHONE #: Same

SAMPLE SITE (Locality or Subdivision): Rolling Greens Inverness

DATE AND TIME COLLECTED: 12/2/91 1130

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)
[ ] Distribution
[ ] Raw
[ ] 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.	SAMPLE POINT (Specific Address)	Cl RES'D	pH	SAMPLE NUMBER	NON COLIFORM	*TOTAL	CONFIRM TOTAL	CONFIRM FECAL
5	WELL # 1	0		2660 A		A		
6	WELL # 2	0		2660 B		A		
7	HPT	1.5		2660 C		A		
8	LOT 31 ALADDA	0.5		2660 D		A		
9	LOTS & CROSSBILL	0.5		2660 E		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 888, Jan 91 edition which may (Stock Number: 8760-888-4) *older previous used) ARS-6)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

CITRUS SPRINGS UTILITIES
PO BOX 217 Dunnellon FL.
32630

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

REVIEWING OFFICIAL: Brenda Ball

TITLE: T.Tech

Rosemont - 988

Citrus County (SSU)

Water

- 1992 FPSC Filing -

Rosemont

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	11/89
Organic	11/89
Volatile Organic Chemicals	1/91
	4/91
	7/91
	10/91
Turbidity	11/89
Microbiological	12/91
Radionuclide	11/89
Secondary Contaminants	11/89
Unregulated Contaminants	1/91

SSU SERVICES

To Clara

Citrus Springs Office
General Manager Office
9840 N. Citrus Springs Blvd.
Citrus Springs, FL 32630
(904) 489-2452

March 5, 1991

Ms. Cece Featheringill
Environmental Specialist II
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Dear Ms. Featheringill:

Find attached the results for the first quarterly tests taken for volatile organics, unregulated organic purgeables, unregulated organic pesticide, unregulated base neutral extractable and unregulated acid extractable per DER Drinking Water Standards 17550 for the following water plants in Citrus County. Pine Ridge - composite, Crystal River, Gospel Island, Apache Shores - composite, Point O'Woods, Golden Terrace - composite, Oak Forest, Rosemont and Rolling Green - composite.

If there are any questions, please don't hesitate to call.

Sincerely,

R.B. Williams, General Manager
Pine Ridge & SSU County Plants

RBW:cr

Attachments

cc: Charles L. Sweat
Chris Arcand
Frank Sanderson
File

FLOWERS



FLOWERS



CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
Ethylene dibromide	mg/L	0.000005	91.6	5.28	<0.000005
Para-dichlorobenzene	mg/L	0.001	113	.036	<0.001
Vinyl chloride	mg/L	0.001	94.1	.527	<0.001
1,1-dichloroethene	mg/L	0.001	94.1	.527	<0.001
1,2-dichloroethane	mg/L	0.001	106	.265	<0.001
1,1,1-trichloroethan	mg/L	0.001	98.6	.063	<0.001
Carbon tetrachloride	mg/L	0.001	98.7	.458	<0.001
Trichloroethene	mg/L	0.001	107	.537	<0.001
Tetrachloroethene	mg/L	0.001	112	.160	<0.001
Benzene	mg/L	0.001	103	4.19	<0.001
Chloromethane	mg/L	0.001	111	1.29	<0.001
Dichlorodifluorometh	mg/L	0.001	98.7	.458	<0.001
Bromomethane	mg/L	0.001	111	1.29	<0.001
Chloroethane	mg/L	0.001	94.1	.527	<0.001
Trichlorofluorometha	mg/L	0.001	98.7	.458	<0.001
trans-1,3,-dichlorop	mg/L	0.001	92.6	1.14	<0.001
cis-1,3-dichloroprop	mg/L	0.001	104	.694	<0.001
Methyl-tert-butyleth	mg/L	0.001	117	1.54	<0.001
cis-1,2-dichloroethe	mg/L	0.001	104	.694	<0.001
Dibromomethane	mg/L	0.001	111	1.29	<0.001
1,1-dichloropropene	mg/L	0.001	102	0.91	<0.001
1,3-dichloropropane	mg/L	0.001	92.6	1.14	<0.001
1,2,3-trichloropropa	mg/L	0.001	114	2.92	<0.001
2,2-dichloropropane	mg/L	0.001	94.1	.527	<0.001
1,2-dibromo-3-chloro	mg/L	0.001	114	2.92	<0.001
Chloroform	mg/L	0.001	98.3	.628	<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.

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Springs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : EB3018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM-1/RG-1&2
Date Received: Jan24 1991
Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
Dinoseb	mg/L	0.00001	106	3.28	<0.00001
Aldicarb sulfoxide	mg/L	0.002	95.0	7.44	<0.002
Aldicarb sulfone	mg/L	0.002	100	7.86	<0.002
Metolachlor	mg/L	0.0005	108	4.60	<0.0005
Carbofuran	mg/L	0.001	96.0	5.24	<0.001
Aldicarb	mg/L	0.002	97.7	0.00	<0.002
Atrazine	mg/L	0.002	101	0.65	<0.002
Alachlor (Lasso)	mg/L	0.0002	107	3.91	<0.0002
Heptachlor	mg/L	0.000005	107	3.99	<0.000005
Aldrin	mg/L	0.00007	109	5.35	<0.00007
Dieldrin	mg/L	0.00001	107	4.26	<0.00001
Dicamba	mg/L	0.00001	108	4.64	<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	100	0.02	<0.001
Dioxin	mg/L	0.00001	98.2	3.23	<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	93.5	3.97	<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
FAX (407) 260-6150

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprg.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Feb15 1991
PO Number: Citrus Sprngs
PO Number B19018
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2/RM1-1/RG-1&2
Date Received: Jan24 1991 Lab Number : 16099

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16099
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	99.7	3.44	<0.0001
PCB-1254	mg/L	0.0001	106	3.18	<0.0001
PCB-1260	mg/L	0.0001	94.0	3.69	<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 NEWBURYPORT
P.O. BOX 150-527
ALTAMONTE SPRINGS
FLORIDA 32715-0527
BUS (407) 339-5984
FAX (407) 260-6110

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Rolling Green - 6094587 — Rosemont-6094905
Public Water System Name _____ OAK FOREST - 6091274
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 16099
Sample Location (be specific): Rolling Green well 1 & 2 - Rosemont well 1 - OAK FOREST well 1&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: JOHN MACKENZIE operator
904 - 489 - 2452

ANALYSIS INFORMATION
Extraction Date 2/1/91
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 2/15/91

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	16099	.00002	<.000005	EPA504.1	.000005	2/7/91
2969	Para-dichlorobenzene	16099	.075	<0.001	EPA502.2	0.001	2/1/91
2976	Vinyl chloride	16099	0.001	<0.001	EPA502.2	0.001	2/1/91
2977	1,1-dichloroethene	16099	0.007	<0.001	EPA502.2	0.001	2/1/91
2980	1,2-dichloroethane	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2981	1,1,1-trichloroethane	16099	0.2	<0.001	EPA502.2	0.001	2/1/91
2982	Carbon tetrachloride	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2984	Trichloroethene	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2987	Tetrachloroethene	16099	0.003	<0.001	EPA502.2	0.001	2/1/91
2990	Benzene	16099	0.001	<0.001	EPA502.2	0.001	2/1/91

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	16099		<0.001	EPA502.2	0.001	2/1/91
2212	Dichlorodifluoromethan	16099		<0.001	EPA502.2	0.001	2/1/91
2214	Bromomethane	16099		<0.001	EPA502.2	0.001	2/1/91
2216	Chloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2218	Trichlorofluoromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2224	trans-1,3.-dichloroprop	16099		<0.001	EPA502.2	0.001	2/1/91
2228	cis-1,3-dichloropropene	16099		<0.001	EPA502.2	0.001	2/1/91
2251	Methyl-tert-butylether	16099		<0.001	EPA502.2	0.001	2/1/91
2380	cis-1,2-dichloroethene	16099		<0.001	EPA502.2	0.001	2/1/91
2408	Dibromomethane	16099		<0.001	EPA502.2	0.001	2/1/91
2410	1,1-dichloropropene	16099		<0.001	EPA502.2	0.001	2/1/91
2412	1,3-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2414	1,2,3-trichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2416	2,2-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2931	1,2-dibromo-3-chloropr	16099		<0.001	EPA502.2	0.001	2/1/91
2941	Chloroform	16099		<0.001	EPA502.2	0.001	2/1/91
2942	Bromoform	16099		<0.001	EPA502.2	0.001	2/1/91
2943	Bromodichloromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2944	Dibromochloromethane	16099		<0.001	EPA502.2	0.001	2/1/91
2962	p-xylene	16099		<0.001	EPA502.2	0.001	2/1/91
2964	Methylene chloride	16099		<0.001	EPA502.2	0.001	2/1/91
2965	o-chlorotoluene	16099		<0.001	EPA502.2	0.001	2/1/91
2966	p-chlorotoluene	16099		<0.001	EPA502.2	0.001	2/1/91
2967	m-dichlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2968	o-dichlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2978	1,1-dichloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2979	trans-1,2-dichloroethyl	16099		<0.001	EPA502.2	0.001	2/1/91
2983	1,2-dichloropropane	16099		<0.001	EPA502.2	0.001	2/1/91
2985	1,1,2-trichloroethane	16099		<0.001	EPA502.2	0.001	2/1/91
2986	1,1,1,2-tetrachloroetha	16099		<0.001	EPA502.2	0.001	2/1/91
2988	1,1,2,2-tetrachloroetha	16099		<0.001	EPA502.2	0.001	2/1/91
2989	Chlorobenzene	16099		<0.001	EPA502.2	0.001	2/1/91

2991	Toluene	16099		<0.001	EPA502.2	0.001	2/1/91
2992	Ethylbenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2993	Bromobenzene	16099		<0.001	EPA502.2	0.001	2/1/91
2995	m-xylene	16099		<0.001	EPA502.2	0.001	2/1/91
2996	Styrene	16099		<0.001	EPA502.2	0.001	2/1/91
2997	o-xylene	16099		<0.001	EPA502.2	0.001	2/1/91

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	16099		<.000001	EPA515	.000001	2/14/91
2036	Oxamyl (Vydate)	16099		<0.002	EPA531	0.002	2/14/91
2037	Simazine	16099		<0.007	EPA505	0.007	2/14/91
2040	Picloram	16099		<0.00007	EPA515	0.00007	2/14/91
2041	Dinoseb	16099		<0.00001	EPA515	0.00001	2/14/91
2043	Aldicarb sulfoxide	16099		<0.002	EPA531	0.002	2/14/91
2044	Aldicarb sulfone	16099		<0.002	EPA531	0.002	2/14/91
2045	Metolachlor	16099		<0.0005	EPA505	0.0005	2/14/91
2046	Carbofuran	16099		<0.001	EPA531	0.001	2/14/91
2047	Aldicarb	16099		<0.002	EPA531	0.002	2/14/91
2050	Atrazine	16099		<0.002	EPA505	0.002	2/14/91
2051	Alachlor (Lasso)	16099		<0.0002	EPA505	0.0002	2/14/91
2065	Heptachlor	16099		<.000005	EPA508	.000005	2/14/91
2356	Aldrin	16099		<0.00007	EPA508	0.00007	2/14/91
2364	Dieldrin	16099		<0.00001	EPA508	0.00001	2/14/91
2440	Dicamba	16099		<0.00001	EPA515	0.00001	2/14/91
2959	Chlordane	16099		<0.00001	EPA508	0.00001	2/14/91
9114	Pentachlorophenol	16099		<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	16099		<0.001	EPA508	0.001	2/13/91
2063	Dioxin	16099		<0.00001	EPA613	0.00001	2/13/91
2262	Isophorone	16099		<0.001	EPA609	0.001	2/12/91
2270	2,4-dinitrotoluene	16099		<0.001	EPA609	0.001	2/12/91
2282	Dimethylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2284	Diethylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2290	Di-n-butylphthalate	16099		<0.001	EPA606	0.001	2/12/91
2294	Butyl benzyl phthalate	16099		<0.001	EPA606	0.001	2/12/91
2298	Bis(2-ethylhexyl)phthal	16099		<0.001	EPA606	0.001	2/12/91
2378	1,2,4-trichlorobenzene	16099		<0.001	EPA612	0.001	2/12/91
2388	PCB-1016	16099		<0.0001	EPA505	0.0001	2/13/91
2390	PCB-1221	16099		<0.0001	EPA505	0.0001	2/13/91
2392	PCB-1232	16099		<0.0001	EPA505	0.0001	2/13/91
2394	PCB-1242	16099		<0.0001	EPA505	0.0001	2/13/91
2396	PCB-1248	16099		<0.0001	EPA505	0.0001	2/13/91
2398	PCB-1254	16099		<0.0001	EPA505	0.0001	2/13/91

2400	PCB-1260	16099	<0.0001	EPA505	0.0001	2/13/91
9089	Dioctylphthalate	16099	<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	16099		<0.001	EPA604	0.001	2/12/91
9112	2-methyl-4,6-dinitophe	16099		<0.001	EPA604	0.001	2/12/91
9115	Phenol	16099		<0.001	EPA604	0.001	2/12/91
9116	2,4,6-trichlorophenol	16099		<0.001	EPA604	0.001	2/12/91

Comments:

CHEMICAL LABORATORIES

FDER Lab# E93018
FDHRS Lab# 83139
NCDEHNR Lab# 394
SCDHEC Lab# 99018

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

(1) Client: Citrus Springs Util.	(2) Address: 9840 W. Citrus Springs Blvd Citrus Springs, Fla 32630	(3) Phone: (904) 489-2452
(4) Public Drinking Water ID #: [illegible]	(5) Public Water System Name: Rosemont	
(6) Project #: Citrus County	(6) Public Water System Type: (X) Community ( ) Non-Community ( ) Special Non-Community	
(7) PO#: B16014		

	Preservative		Plastic Containers						Glass Containers						NOTES:
	HNO3	ZnOAc/NaOH	60ml	125ml	250ml	500ml	1L	Whirl-Pac Bag	40ml	250ml	500ml	1L	2L	4L	
1														X	(8) Turn Around Time: 10 Working Days: ___ 5 Working Days: ___ 3 Working Days: ___ 1 Working Day: ___ Other: ___
2									X						
3															
4															
5															
6															
7															

(10) Kit Relinquished:	(10) Date / (10) Time
(11) Kit Received	(11) Date / (11) Time

(12) 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: J. MacKenzie TITLE: [illegible] PHONE: [illegible]
SAMPLER'S SIGNATURE: John C MacKenzie
NOTES:

Composite with oak forest wells #1 & 2 — Rolling Green wells #1 & 2

(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
16099	#1 Rosemont Golf Club well 1
	#2 " well 1
	#3 " well 1
	#4 " well 1
	#5
	#6
	#7
	#8
	#9
	#10

		Date	Time
(16) Collectors Signature:	John C MacKenzie	4/23/91	12:00
(17) Transporters Signature:	[illegible]	4/24/91	[illegible]
(19) Lab Acceptance By:	[illegible]		

OVER FOR INSTRUCTIONS FOR COMPLETION

FLOWERS

CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
9840 N.CitrusSprgBlv
CitrusSprg,FL 32630

Date Reported: Apr 9 1991
PO Number: B91018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDEP Lab# : E93018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OF-1&2 RM-1 RG-1&2
Date Received: Mar28 1991 Lab Number : 16562

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	16562
Ethylene dibromide	mg/L	0.000005	82.8	12.3	<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	93.2	.469	<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

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	16562	.00002	<.000005	EPA504.1	.000005	4/8/91
2969	Para-dichlorobenzene	16562	.075	<0.001	EPA502.2	0.001	3/30/91
2976	Vinyl chloride	16562	0.001	<0.001	EPA502.2	0.001	3/30/91
2977	1,1-dichloroethene	16562	0.007	<0.001	EPA502.2	0.001	3/30/91
2980	1,2-dichloroethane	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2981	1,1,1-trichloroethane	16562	0.2	<0.001	EPA502.2	0.001	3/30/91
2982	Carbon tetrachloride	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2984	Trichloroethene	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2987	Tetrachloroethene	16562	0.003	<0.001	EPA502.2	0.001	3/30/91
2990	Benzene	16562	0.001	<0.001	EPA502.2	0.001	3/30/91

Comments:

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: Rolling Green - 6094581 - Rosemont - 6094905
Public Water System Name _____ OAK FOREST - 6091274
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 16562
Sample Location (be specific): Rolling Green well 1+2 - Rosemont well 1 OAK FOREST well 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: JOHN MACKENZIE 904 - 489 - 2452

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 4/8/91

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:
Citrus Springs
9840 N.CitrusSprgs.B
CitrusSprgs,FL 32630

Date Reported: Jul15 1991
PO Number: 891018
PO Number Citrus Co-900
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: OAK FOREST / RollingGreen / Rosemont ✓
Date Received: Jul 2 1991 Lab Number : 17251

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17251
Ethylene dibromide	mg/L	0.000005	107	7.00	<0.000005
Para-dichlorobenzene	mg/L	0.001	119	3.30	<0.001
Vinyl chloride	mg/L	0.001	93.7	.278	<0.001
1,1-dichloroethene	mg/L	0.001	93.7	.278	<0.001
1,2-dichloroethane	mg/L	0.001	97.3	1.54	<0.001
1,1,1-trichloroethan	mg/L	0.001	94.7	.774	<0.001
Carbon tetrachloride	mg/L	0.001	94.5	.112	<0.001
Trichloroethene	mg/L	0.001	99.0	.225	<0.001
Tetrachloroethene	mg/L	0.001	99.8	1.71	<0.001
Benzene	mg/L	0.001	97.0	.380	<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 1 of 1

Jefferson L. Flowers, PhD
Jefferson S. Flowers, PhD
484 NEWBURYPORT
P.O. BOX 150 527
ALLAMONTE SPRINGS
FLORIDA 32715-0527
PHS 407 339-4986
FAX 407 339-0447

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number:
Public Water System Name Rosemont
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 17251
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 7/12/91

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)
(PWS028)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(mg/L	Analytical Method	Det.Limit Used	Analysis Date
2946	Ethylene dibromide	17251	.00002	<.000005	EPA504.1	.000005	7/12/91
2969	Para-dichlorobenzene	17251	.075	<0.001	EPA502.2	0.001	7/6/91
2976	Vinyl chloride	17251	0.001	<0.001	EPA502.2	0.001	7/6/91
2977	1,1-dichloroethene	17251	0.007	<0.001	EPA502.2	0.001	7/6/91
2980	1,2-dichloroethane	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2981	1,1,1-trichloroethane	17251	0.2	<0.001	EPA502.2	0.001	7/6/91
2982	Carbon tetrachloride	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2984	Trichloroethene	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2987	Tetrachloroethene	17251	0.003	<0.001	EPA502.2	0.001	7/6/91
2990	Benzene	17251	0.001	<0.001	EPA502.2	0.001	7/6/91

Comments:

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: CITRUS SPRINGS
Address: 9840 N. CITRUS SPRINGS BLVD. CITRUS SPRINGS, FL. 32630
Phone: 904-489-2552
Sampled By (PRINT): JOHN MACKENZIE
Sampler Signature: John MacKenzie
Date Sampled: 7/1/91

FCL Client No.
FCL Project Manager: L. SEBECK
FCL Lab Coordinator: S. WELSH
Requested Due Date: ASAP

P.O Number
Project Name / No.
Contact

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl	ANALYSES REQUEST
1	COMPOSIT of Rolling Acres 1+2 Basement Wells	10:00	D.W.	12751						VOCs
2	OAK FOREST 1+2	9:00								
3	COMPOSIT POW 1-2-3	11:00		12752						
4	GOLDEN TERRACE 1+2									
5	COMPOSIT APPLE STREETS 1+2 CRYSTAL RIVER 1+2	8:30	HOSPIL	12753						
6	PINE RIDGE 2+3	12:00		12754						

CARRIER	BAILERS	SHIP DATES OUT / DATE	SHIP DATES RETURNED / DATE
UPS		6/17/91	

SPECIAL INSTRUCTIONS

NO AIR IN VIALS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FU	6/17/91	11:57			

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

1161

Rolling Green 142
→Rosemont 1 ✓ Oak Forest 142

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Received From:
Citrus Sprgs.Util.
PO Box 217
Dunnellon,FL 32630

Date Reported: Oct15 1991
PO Number: B91018
PO Number Citrus Sprgs.
FDHRS Lab# : 83139
FDER Lab# : E83018
NCDEHNR Lab# : 296
SCDHEC Lab# : 96019

For: 1
Date Received: Oct10 1991 Lab Number : 17957

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	17957
Ethylene dibromide	mg/L	0.000005	107	1.55	<0.000005
Para-dichlorobenzene	mg/L	0.001	92.1	2.02	<0.001
Vinyl chloride	mg/L	0.001	109	2.55	<0.001
1,1-dichloroethene	mg/L	0.001	109	2.55	<0.001
1,2-dichloroethane	mg/L	0.001	108	4.12	<0.001
1,1,1-trichloroethan	mg/L	0.001	111	1.32	<0.001
Carbon tetrachloride	mg/L	0.001	109	.847	<0.001
Trichloroethene	mg/L	0.001	101	1.35	<0.001
Tetrachloroethene	mg/L	0.001	97.5	.548	<0.001
Benzene	mg/L	0.001	105	.244	<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 ___Rosemont
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 17957
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 10/14/91

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	17957	.00002	<.000005	EPA504.1	.000005	10/11/91
2969	Para-dichlorobenzene	17957	.075	<0.001	EPA502.2	0.001	10/11/91
2976	Vinyl chloride	17957	0.001	<0.001	EPA502.2	0.001	10/11/91
2977	1,1-dichloroethene	17957	0.007	<0.001	EPA502.2	0.001	10/11/91
2980	1,2-dichloroethane	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2981	1,1,1-trichloroethane	17957	0.2	<0.001	EPA502.2	0.001	10/11/91
2982	Carbon tetrachloride	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2984	Trichloroethene	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2987	Tetrachloroethene	17957	0.003	<0.001	EPA502.2	0.001	10/11/91
2990	Benzene	17957	0.001	<0.001	EPA502.2	0.001	10/11/91

Comments:

CHEMICA LABORATORIES

FDER Lab# 850018
FDHRS Lab# 85139
NCCEHNR Lab# 296
SCDHEC Lab# 96019

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

ATTN: Bob Williams

(1)Client	(2)Address	(3)Phone
Citrus Springs Util.	P.O. Box 217 Dunnellon, FL 32630	(904) 245-1504

(4)Public Drinking Water ID #

(5)Public Water System Name: Citrus Co. Composites

(6)Project: # Citrus Co. Composites

MP0s B91018

(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	3L	(12)Turn Around Time: 10 Working Days: 5 Working Days : 3 Working Days : 1 Working Day : Other :
(16) 54									X						

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

VOC's

(18)Laboratory Number		(11)Client Sample Identification
17957	#1	Composite of Rolling Green Wells 1+2 Oak Forest 1+2 Rosemont well 1
17958	#2	Composite of POW 1-2-3 Golden Terr. 1+2
17959	#3	Composite of Admiral Shores #1 + Crystal River #2
17960	#4	Composite Pine Ridge 2+3
	#5	
	#6	
	#7	
	#8	
	#9	
	#10	

		Date	Time
(13)Collectors Signature:	John E Gmelin Engr	10/8	4:00 PM
(14)Transporters Signature:			
(15)Lab Acceptance By:	[signature]	10/10/91	10:10

Over for numbered instructions.

C/DER
E/Mail

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION
Public Water System I.D. Number: 6094905
Public Water System Name: Rosemont
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: 14502
Sample Location (be specific): Well
Sample Type (check all applicable):
( )Check ( )Regular Distribution ( )Composite
( )Clearance ( )Maximum Residence Time ( )Plant Tap
( )Raw ( )Well ( )Resample
( )Special 3 year and Radiological
Sampler Name, Title Phone: ANDY ANDERSON 1-800-432-9501 operator

ANALYSIS INFORMATION
Extraction Date 11/22/89
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 11/30/89

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

C/DER
E/Mail

Turbidity Analysis
17-550.310(3)
(PWS026)

Parameter ID	Name	Sample Number	MCL Value	Analysis Result(NTU)	Analytical Method	Det.Limit Used	Analysis Date
100	Turbidity	14502	1	1.00	EPA180.1	0.05	11/7/89

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	14502	0.05	<0.0005	EPA206.3	0.0005	11/9/89
1010	Barium	14502	1	0.02	EPA208.1	0.01	11/10/89
1015	Cadmium	14502	0.01	<0.001	EPA213.1	0.001	11/8/89
1020	Chromium	14502	0.05	<0.005	EPA218.1	0.005	11/8/89
1025	Fluoride	14502	4	0.150	EPA300.0	0.005	11/14/89
1030	Lead	14502	0.05	<0.01	EPA239.1	0.01	11/8/89
1035	Mercury	14502	0.002	<0.0002	EPA245.1	0.0002	11/10/89
1040	Nitrate (as N)	14502	10	0.226	EPA300.0	0.013	11/21/89
1045	Selenium	14502	0.01	<0.0005	EPA270.3	0.0005	11/10/89
1050	Silver	14502	0.05	<0.005	EPA272.1	0.005	11/10/89
1052	Sodium	14502	160	11.140	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	14502	0.10	<0.001	EPA502.2	0.001	11/22/89

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	14502	.00002	<.000005	EPA504.1	.000005	11/22/89
2969	Para-dichlorobenzene	14502	.075	<0.001	EPA502.2	0.001	11/22/89
2976	Vinyl chloride	14502	0.001	<0.001	EPA502.2	0.001	11/22/89
2977	1,1,-dichloroethene	14502	0.007	<0.001	EPA502.2	0.001	11/22/89

2980	1,2,-dichloroethane	14502	0.003	<0.001	EPA502.2	0.001	11/22/89
2981	1,1,1-trichloroethane	14502	0.2	<0.001	EPA502.2	0.001	11/22/89
2982	Carbon_tetrachloride	14502	0.003	<0.001	EPA502.2	0.001	11/22/89
2984	Trichloroethene	14502	0.003	<0.001	EPA502.2	0.001	11/22/89
2987	Tetrachloroethene	14502	0.003	<0.001	EPA502.2	0.001	11/22/89
2990	Benzene	14502	0.001	<0.001	EPA502.2	0.001	11/22/89

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	14502	0.0002	<.000001	EPA508	.000001	11/28/89
2010	Lindane	14502	0.004	<.000001	EPA508	.000001	11/28/89
2015	Methoxychlor	14502	0.1	<0.00001	EPA508	0.00001	11/28/89
2020	Toxaphene	14502	0.005	<0.0001	EPA508	0.0001	11/28/89
2105	2,4-D	14502	0.1	<0.00005	EPA515	0.00005	11/28/89
2110	2,4,5-TP (Silvex)	14502	0.01	<0.00002	EPA515	0.00002	11/28/89

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	14502		59.1	EPA215.1	0.1	11/13/89
1017	Chloride	14502	250	17.0	EPA300.0	0.015	11/21/89
1019	Carbonate_CaCO3	14502		160.3	SM314A	0.1	
1021	Hydroxide_CaCO3	14502		0.0	SM406C	0.1	
1022	Copper	14502	1	<0.005	EPA220.1	0.005	11/7/89
1023	Bicarbonate_CaCO3	14502		175.9	SM406C	0.1	
1026	Carbonate_Alkalinity	14502		0.4	SM406C	0.1	
1027	Hydrogen_Sulfide	14502		-	EPA376.1	0.5	
1028	Iron	14502	0.3	0.6	EPA236.1	0.01	11/7/89
1031	Magnesium	14502		3.1	EPA242.1	0.01	11/13/89
1032	Manganese	14502	0.05	0.047	EPA243.1	0.005	11/7/89
1055	Sulfate	14502	250	55.1	EPA300.0	0.200	11/21/89
1095	Zinc	14502	5	<0.001	EPA289.1	0.001	11/8/89
1901	Carbon_Dioxide	14502		14.8	SM406C	0.1	
1905	Color	14502	15	7.5	EPA110.1	5	11/7/89
1915	Total_Hardness	14502		160.3	SM314A	0.1	
1917	NCH_as_CaCO3	14502		<0.1	SM314A	0.1	
1920	Odor(TON)	14502	3	<1	EPA140.1	1	11/7/89
1924	Field_pH	14502	6.5-8.5	-	EPA150.1	0.01	
1925	Lab_pH	14502	6.5-8.5	7.4	EPA150.1	0.01	11/7/89
1927	Alkalinity	14502		176.3	EPA310.1	0.1	11/7/89
1930	TDS	14502	500	286.9	EPA160.1	2.5	11/16/89
1996	Temperature	14502		25 -		1	

1997	Langelier_Index	14502	-0.2:+0.2	-0.08	SM203	0.01	
1998	Saturation_Index	14502		7.45	SM203	0.01	
1999	Stability_Index	14502		7.53	SM203	0.01	
2909	Foaming_Agents	14502	0.5	<0.1	EPA425.1	0.1	11/21/89
	Field_Chlorine	14502		-	-	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	14502	5	<2	EPA900	1	11/15/89

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	14502		<0.001	EPA502.2	0.001	11/22/89
2212	Dichlorodifluoromethane	14502		<0.001	EPA502.2	0.001	11/22/89
2214	Bromomethane	14502		<0.001	EPA502.2	0.001	11/22/89
2216	Chloroethane	14502		<0.001	EPA502.2	0.001	11/22/89
2218	Trichlorofluoromethane	14502		<0.001	EPA502.2	0.001	11/22/89
2224	trans-1,3,-dichloropropene	14502		<0.001	EPA502.2	0.001	11/22/89
2228	cis-1,3-dichloropropene	14502		<0.001	EPA502.2	0.001	11/22/89
2251	Methyl-tert-butylether	14502		<0.001	EPA502.2	0.001	11/22/89
2380	cis-1,2-dichloroethene	14502		<0.001	EPA502.2	0.001	11/22/89
2408	Dibromomethane	14502		<0.001	EPA502.2	0.001	11/22/89
2410	1,1-dichloropropene	14502		<0.001	EPA502.2	0.001	11/22/89
2412	1,3-dichloropropane	14502		<0.001	EPA502.2	0.001	11/22/89
2414	1,2,3-trichloropropane	14502		<0.001	EPA502.2	0.001	11/22/89
2416	2,2-dichloropropane	14502		<0.001	EPA502.2	0.001	11/22/89
2931	1,2-dibromo-3-chloropropan	14502		<0.001	EPA502.2	0.001	11/22/89
2941	Chloroform	14502		<0.001	EPA502.2	0.001	11/22/89
2942	Bromoform	14502		<0.001	EPA502.2	0.001	11/22/89
2943	Bromodichloromethane	14502		<0.001	EPA502.2	0.001	11/22/89
2944	Dibromochloromethane	14502		<0.001	EPA502.2	0.001	11/22/89
2962	p-xylene	14502		<0.001	EPA502.2	0.001	11/22/89
2964	Methylene_chloride	14502		<0.001	EPA502.2	0.001	11/22/89
2965	o-chlorotoluene	14502		<0.001	EPA502.2	0.001	11/22/89
2966	p-chlorotoluene	14502		<0.001	EPA502.2	0.001	11/22/89
2967	m-dichlorobenzene	14502		<0.001	EPA502.2	0.001	11/22/89
2968	o-dichlorobenzene	14502		<0.001	EPA502.2	0.001	11/22/89
2978	1,1-dichloroethane	14502		<0.001	EPA502.2	0.001	11/22/89
2979	trans-1,2-dichloroethylene	14502		<0.001	EPA502.2	0.001	11/22/89
2983	1,2-dichloropropane	14502		<0.001	EPA502.2	0.001	11/22/89
2985	1,1,2-trichloroethane	14502		<0.001	EPA502.2	0.001	11/22/89

2986	1,1,1,2-tetrachloroethane	14502	<0.001	EPA502.2	0.001	11/22/89
2988	1,1,2,2-tetrachloroethane	14502	<0.001	EPA502.2	0.001	11/22/89
2989	Chlorobenzene	14502	<0.001	EPA502.2	0.001	11/22/89
2991	Toluene	14502	<0.001	EPA502.2	0.001	11/22/89
2992	Ethylbenzene	14502	<0.001	EPA502.2	0.001	11/22/89
2993	Bromobenzene	14502	<0.001	EPA502.2	0.001	11/22/89
2995	m-xylene	14502	<0.001	EPA502.2	0.001	11/22/89
2996	Styrene	14502	<0.001	EPA502.2	0.001	11/22/89
2997	o-xylene	14502	<0.001	EPA502.2	0.001	11/22/89

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	14502		<0.000001	EPA515	.000001	11/28/89
2036	Oxamyl (Vydate)	14502		<0.002	EPA531	0.002	11/27/89
2037	Simazine	14502		<0.007	EPA505	0.007	11/28/89
2040	Picloram	14502		<0.00007	EPA515	0.00007	11/28/89
2041	Dinoseb	14502		<0.00001	EPA515	0.00001	11/28/89
2043	Aldicarb sulfoxide	14502		<0.002	EPA531	0.002	11/27/89
2044	Aldicarb sulfone	14502		<0.002	EPA531	0.002	11/27/89
2045	Metolachlor	14502		<0.0005	EPA505	0.0005	11/28/89
2046	Carbofuran	14502		<0.001	EPA531	0.001	11/27/89
2047	Aldicarb	14502		<0.002	EPA531	0.002	11/27/89
2050	Atrazine	14502		<0.002	EPA505	0.002	11/28/89
2051	Alachlor (Lasso)	14502		<0.0002	EPA505	0.0002	11/28/89
2065	Heptachlor	14502		<.000005	EPA508	.000005	11/28/89
2356	Aldrin	14502		<0.00007	EPA508	0.00007	11/28/89
2364	Dieldrin	14502		<0.00001	EPA508	0.00001	11/28/89
2440	Dicamba	14502		<0.00001	EPA515	0.00001	11/28/89
2959	Chlordane	14502		<0.00001	EPA508	0.00001	11/28/89
9114	Pentachlorophenol	14502		<0.005	EPA515	0.005	11/28/89

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	14502		<0.005	EPA612	0.005	11/24/89
2063	Dioxin	14502		<0.00001	EPA613	0.00001	11/28/89
2262	Isophorone	14502		<0.005	EPA609	0.005	11/24/89
2270	2,4-dinitrotoluene	14502		<0.005	EPA609	0.005	11/24/89
2282	Dimethylphthalate	14502		<0.005	EPA606	0.005	11/24/89
2284	Diethylphthalate	14502		<0.005	EPA606	0.005	11/24/89
2290	Di-n-butylphthalate	14502		<0.005	EPA606	0.005	11/24/89
2294	Butyl benzyl phthalate	14502		<0.005	EPA606	0.005	11/24/89

2298	Bis(2-ethylhexyl)phthalate	14502	<0.005	EPA606	0.005	11/24/89
2378	1,2,4-trichlorobenzene	14502	<0.005	EPA612	0.005	11/24/89
2388	PCB-1016	14502	<0.0001	EPA505	0.0001	11/28/89
2390	PCB-1221	14502	<0.0001	EPA505	0.0001	11/28/89
2392	PCB-1232	14502	<0.0001	EPA505	0.0001	11/28/89
2394	PCB-1242	14502	<0.0001	EPA505	0.0001	11/28/89
2396	PCB-1248	14502	<0.0001	EPA505	0.0001	11/28/89
2398	PCB-1254	14502	<0.0001	EPA505	0.0001	11/28/89
2400	PCB-1260	14502	<0.0001	EPA505	0.0001	11/28/89
9089	Dioctylphthalate	14502	<0.005	EPA606	0.005	11/24/89

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	14502		<0.005	EPA604	0.005	11/24/89
9112	2-methyl-4,6-dinitophenol	14502		<0.005	EPA604	0.005	11/24/89
9115	Phenol	14502		<0.005	EPA604	0.005	11/24/89
9116	2,4,6-trichlorophenol	14502		<0.005	EPA604	0.005	11/24/89

Comments:

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
Gulfcoast Water Lab
5356 Hwy 195.
~~Hwy 195~~ Homosassa, Fl. 32646
Lab ID# 82349 John Fowler
12/3/91 10:30AM

DRINKING WATER BACTERIOLOGICAL ANALYSIS

SYSTEM NAME: Rosemont SSU SYSTEM I.D. NO: 6094905 SYSTEM PHONE #: 1-489-245
ADDRESS: Rosemont Tower Acres COUNTY: Citrus DER DISTRICT: SWD
COLLECTOR: John E MacKenzie COLLECTOR PHONE #: Same
SAMPLE SITE (Locality or Subdivision): Rosemont Tower Acres
DATE AND TIME COLLECTED: 12/2/91 11:00

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	Well #1	0		2659 A		A		
2	HPT	1.0		2659 B		A		
3	Lot 6 Maplewood	0.6		2659 C		A		
4	Lot 38 Drexell	0.5		2659 D		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 888, Jan '__ (obsolete previous editions which may be used) (Stock Number: 57...-0065-8)

NAME AND MAILING ADDRESS OF PERSON/FIRM TO RECEIVE REPORT

Citrus Springs Utilities
PO Box 217 Dunnellon, FL
32630

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

REVIEWING OFFICIAL: Brenda Ball
TITLE: EA