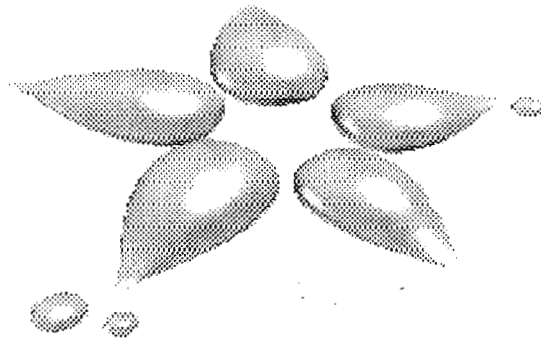


ORIGINAL



# United Water

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**Before the**

**Florida Public Service Commission**

**Docket No. 980214-WS**

**Application for a General Rate Increase**

**H - 7 Schedule**

**Containing**

**25-30.440**

**Additional Engineering Information**

**Required of Class A & B**

**Water and Sewer Utilities**

DOCUMENT NUMBER-DATE

05513 MAY 18 88

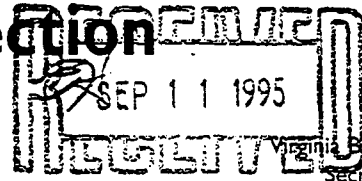
FDSC-RECORDS/REPORTING

Book 2 of 3



# Department of Environmental Protection

- SAM-ORIGINAL *Condon*  
- S. MARIS  
10/30/95



Virginia B. Wetherell  
Secretary  
UNITED WATER FLORIDA

Lawton Chiles  
Governor  
CERTIFIED - RETURN RECEIPT

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Mr. Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

Date: September 6, 1995  
County: Duval  
Subject: Notice of Draft Permit  
Ortega Hills WWTP - FL0025828

Dear Mr. Heil:

This is in reference to your application for the wastewater permit for the above referenced project. The Department has prepared the enclosed notice of intent, draft permit and fact sheet for your review. Read the enclosed documents concerning the publication requirements of this notice of draft permit.

The Department has not received any comments from the US EPA concerning the preliminary permit within the 35 day notification period. The Department has given consideration to and has reviewed your comments received by this office on August 18, 1995 and September 5, 1995. The comments have been so noted and necessary minor changes made. A decision schedule is provided below outlining the process elements and listing the tentative dates of completion of each element.

Process Elements	Projected Date of Completion
Effective Date of the Application:	June 27, 1995
Draft Permit to Applicant for Review:	September 6, 1995
Draft Permit - First Publication and Begin/End Public Comment Period:	September 15/October 15, 1995
Upon Department Request, Applicant to Publish Second Public Notice :	October 20, 1995
Submittal of Proposed Permit to EPA:	October 20, 1995
Final Department Action:	November 20, 1995

If you have any questions in this matter, please contact Jeff Martin, P.E. of this office.

Sincerely,

Frank Watkins, Jr., P.E.  
Domestic Waste Supervisor

BFW: *mkw*  
Attachments

cc: Mitchell Griffin, P.E.  
Elsa Potts, P.E.  
RESD-WQ  
OGC

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CERTIFIED MAIL

In the Matter of an  
Application for Permit by:

Mr. Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

DEP File No. 270241

Duval County

NOTICE OF DRAFT PERMIT

The Department of Environmental Protection gives notice of its preparation of a draft permit, FL0025828, (copy attached) for the the facility as detailed in the application specified above, for the reasons stated below.

The applicant, Mr. Philip Heil, Vice President, United Water of Florida, applied on May 1, 1995 to the Department of Environmental Protection for a permit for renewal to operate a 0.220 MGD permitted capacity contact stabilization (optional complete mix operation mode) wastewater treatment facility with influent screening, clarification, chlorine disinfection, sulfer dioxide dechlorination, post aeration with discharge to Class III surface waters known as the Ortega River. The residuals are aerobically digested and hauled to a land application site.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-302, 62-600, 62-601, 62-620, 62-650, 62-699 and other applicable of the Florida Administrative Code and constitutes authorization to discharge to waters of the State under the National Pollutant Discharge Elimination System (NPDES). The project is not exempt from permitting procedures. The Department has determined that a facility permit is required for the operation of the facility.

Based upon the application and the supplemental information submitted the Department has reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes and Florida Administrative Code Title 62.

Pursuant to Section 403.815, Florida Statutes and DEP Rule 62-620.550(2), F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Draft Permit and Request For Public Comment. The notice shall be published one time only within 30 days in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a

newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used should be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department, at the Water Facilities Section, Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256, within fourteen days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department intends to issue the permit with the attached conditions unless as a result of public comment appropriate changes are made.

Any interested person may submit written comments on the Department's proposed permitting decision or may submit a written request for a public meeting to Jeff Martin, P.E., Water Facilities Section, Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the Jacksonville office. Comments from the permit applicant and the persons listed below must be received within 30 days of receipt of this draft permit. Comments submitted by other persons must be received within 30 days of publication of the public notice. Failure to submit comments or request a public meeting within this time period shall constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

The comments or request for a public meeting shall contain the following information:

(a) The commenter's name, address, and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when notice of the Department's action or proposed action was received;

(c) A statement of the facts the Department should consider in making the final decision;

(d) A statement of which rules or statutes require reversal or modification of the Department's action or proposed action; and

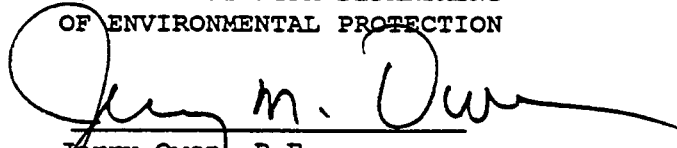
(e) If desired, a request that a public meeting be scheduled including a statement of the nature of the issues proposed to be raised at the meeting. However, the Department may not always grant a request for a public meeting. Therefore, written comments should be submitted within 30 days of receipt of this notice, even if a public meeting is requested.

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data on the Department's proposed action at the public meeting. As a result of significant public comment the Department's final action may be different from the position taken by it in this draft permit.

Executed in Jacksonville, Florida.


STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



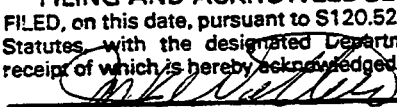
Jerry Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF DRAFT PERMIT and all copies were mailed by certified mail before the close of business on September 7, 1995, to the listed persons.

 Copies furnished to:  
Mitchell Griffin, P.E.  
RESD-WQ  
Office of General Counsel  
Elsa Potts, P.E.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

  
Clerk  
Date 9/7/95

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF DRAFT PERMIT

The Department of Environmental Protection gives notice of its preparation of a draft permit to Mr. Philip Heil, Vice President, United Water of Florida, who applied to the Department of Environmental Protection for a permit for renewal to operate a 0.220 MGD permitted capacity contact stabilization (optional complete mix operation mode) wastewater treatment facility with influent screening, clarification, chlorine disinfection, sulfur dioxide dechlorination, post aeration with discharge to Class III surface waters known as the Ortega River. The residuals are aerobically digested and hauled to a land application site.

Any interested person may submit written comments on the Department's draft permit or may submit a written request for a public meeting to Jeff Martin, P.E., Water Facilities Section, Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the Jacksonville office within 30 days of publication of this notice. Failure to submit comments or request a public meeting within this time period shall constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

The comments or request for a public meeting shall contain the following information:

(a) The commenter's name, address, and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when notice of the Department's action or proposed action was received;

(c) A statement of the facts the Department should consider in making the final decision;

(d) A statement of which rules or statutes require reversal or modification of the Department's action or proposed action; and

(e) If desired, a request that a public meeting be scheduled including a statement of the nature of the issues proposed to be raised at the meeting. However, the Department may not always grant a request for a public meeting. Therefore, written comments should be submitted within 30 days of publication of this notice, even if a public meeting is requested.

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data at the meeting on the Department's proposed action. As a result of significant public comment the Department's final action may be different from the position taken by it in this draft permit.

The permit application file and supporting data are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Water Facilities Section, Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256.



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**

United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225  
Attn: Mr. Philip Heil, Vice President (904) 721-4600

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
**EXPIRATION DATE:** DRAFT  
**FACILITY I.D. :** FL0025828 (9115800034)

**DRAFT**

**FACILITY:**

Ortega Hills Wastewater Facility  
5033 Greenway Drive  
Ortega Hills Subdivision  
Latitude: 30° 12' 50 " N Longitude: 81° 42' 36 " W Duval County

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

**TREATMENT FACILITIES:**

A 0.220 MGD permitted capacity contact stabilization (optional complete mix operation mode) wastewater treatment facility with influent screening, clarification, chlorine disinfection, sulfur dioxide dechlorination, post aeration with discharge to surface waters. The residuals are aerobically digested and hauled to a land application site with:

**EFFLUENT DISPOSAL:**

**Surface Water Discharge:** An existing 0.220 MGD permitted capacity annual average daily flow contact stabilization (optional complete mix operation mode) wastewater treatment plant with the permitted discharge pumped through 2,700 linear feet of force main to the Ortega River, a Class III water, at the outfall designated as D001. The outfall line is a 6 inch pipe, that discharges at a depth of approximately 3 feet and the point of discharge is located approximately at latitude 30 ° 12 ' 50 " N, longitude 81° 42 ' 36 " W.

**IN ACCORDANCE WITH:** The application received May 1 , 1995 and the limitations, monitoring requirements and other conditions set forth in the pages 1 through 18 of this permit.

**PERMITTEE:**  
Ortega Hills  
United Water Florida

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
**EXPIRATION DATE:** DRAFT  
**FACILITY I.D. :** FL0025828  
(3116P00034)

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharge**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to the Ortega River. Such discharge shall be limited and monitored by the permittee as specified below:

[62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 1-5-93] [62-610.860, 4-2-90]

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	0.220	--	--	--	Continuous	Flow meter & totalizer	I001 or D001	See Item I.A.2
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	4.0	4.0	6.0	8.0	Every two weeks	8 hour, flow proportioned composite	D001	See Item I.A.7
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Every two weeks	8 hour, flow proportioned composite	D001	See Item I.A.7
Fecal Coliform Bacteria	See Permit Condition I. A. 6						Every two weeks	Grab	D001	
Total Chlorine Residual (For Disinfection)	See Permit Condition I. A. 8						5 days per week	Grab or continuous	D001	
Total Chlorine Residual (For Dechlorination)	See Permit Condition I. A. 9						5 days per week	Grab or continuous	D001	
pH	std. units	Range	-	-	-	6.5 to 8.5	5 days per week	Grab or continuous	D001	



**PERMITTEE:**  
 Ortega Hills  
 United Water Floirda

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
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**FACILITY I.D. :** FL0025828  
 (3116P00034)

I. A. continued

			Effluent Limitations				Monitoring Requirements			
Annual Average	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
TKN	mg/L	Maximum	8.8	8.8	13.2	17.6	Every two weeks	8 hour, flow proportioned composite	D001	See Item I.A.7
Dissolved Oxygen	mg/L	Minimum	--	--	--	7.0	Daily	Grab or instrument	D001	
NH3-N Total	mg/L	Report	--	--	--	--	Every two weeks	8 hour, flow proportioned composite	D001	
Temperature	o F	Report	--	--	--	--	Every two weeks	Grab at time of sample collection	D001	
Whole Effluent Toxicity	See Permit Condition I. A.10						--	--	D001	
Nutrient Monitoring	See Permit Condition I. A.12						--	--	D001	

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A.1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
I001	Influent, prior to biological treatment
D001	Effluent, after final treatment and prior to discharge to the receiving water

**PERMITTEE:**  
Ortega Hills  
United Water Floirda

**PERMIT NUMBER:** FL0025828  
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**FACILITY I.D. :** FL0025828  
(3116P00034)

- DRAFT**
3. The three month average daily flow to Outfall D001 shall not exceed 0.220 mgd.
  4. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
  5. A weir, a continuous flowmeter and totalizer shall be utilized to measure flow. The flow measurement device shall be calibrated at least once annually. [62-601.200(17) and .500(6), 5-31-93]
  6. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
  7. This facility shall comply with both concentration and mass loading limitations. The mass loading values are based upon an average annual daily flow limitation of 0.170 MGD. The CBOD5 limit is 5.67 lbs/day, the TSS limit is 28.36 lbs/day, and the TKN limit is 12.48 lbs/day. The waste load allocation for this source is 81.4 lbs/day Ultimate Oxygen Demand (UOD) as a maximum 30 day average limit.
  8. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(4)(b), 6-8-93]
  9. The final total chlorine residual of the effluent prior to discharge to the receiving water shall be 0.01 mg/L or less and shall be demonstrated in accordance with approved standard methods. Florida water quality criteria and standards shall not be violated as a result of the discharge ( see Item number I.A.11 below ).  
[Chapter 62-600.500, 6-8-93]
  10. The Department reserves the right to require a series of tests (such as acute screening static renewal toxicity tests) to evaluate whole effluent toxicity of the discharge from outfall D001, in accordance with Rule 62-302.500(1)(d) FAC. All test species, procedures and quality assurance criteria used would be in accordance with Methods for Measuring the Acute Toxicity of Effluent to Freshwater and Marine Organisms, EPA/600/4-90/027 (4th edition), or the most current edition. If toxicity tests are required, the Department shall notify the permittee and modify this permit accordingly.
  11. Field testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160 FAC. Each effluent parameter has an applicable method detection limit ( MDL) and a practical quantitative limit (PQL). The EPA method and the resulting recommended MDL and target PQL are subject to approval by the Department.  
[62-4.246, 4-30-95]

**PERMITTEE:**  
 Ortega Hills  
 United Water Florida

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
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**FACILITY I.D. :** FL0025828  
 (3116P00034)

12. The facility shall perform an 8 hour flow-proportioned composite sample of the final effluent, from outfall D001, for the following nutrient parameters on a quarterly basis:

Total Nitrogen, Organic nitrogen, Total phosphorous, ortho phosphorous

The sample shall be taken at the same time as a normal sampling event, as defined for TKN in I.A.1 above. The results for each quarter sampling are due to be received at the Jacksonville DEP domestic waste section office by the following date for the duration of this permit:

First quarter report	no later than	April	28
Second quarter report	no later than	July	28
Third quarter report	no later than	October	28
Fourth quarter report	no later than	January	28

**B. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

[17-601.300(1), 5-31-93]

Parameter	Units	Max/Min	Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow proportioned composite	I001	See Item I.B.3	
Total Suspended Solids	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow proportioned composite	I001	See Item I.B.3	

**PERMITTEE:**  
Ortega Hills  
United Water Florida

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
**EXPIRATION DATE:** DRAFT  
**FACILITY I.D. :** FL0025828  
(3116P00034)

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. B.1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
I001	Influent, prior to any biological treatment

3. Influent samples shall be collected so that they do not contain digester supernatant or recycled activated sludge, or any other plant process recycled waters [62-601.500(4), 5-31-93]
4. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. [62-620.610(18), 11-29-94]
5. The permittee shall provide safe access points for obtaining representative influent, and effluent samples which are required by this permit. [62-601.500(5), 5-31-93]

**DRAFT**

**PERMITTEE:**  
Ortega Hills  
United Water Florida

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
**EXPIRATION DATE:** DRAFT  
**FACILITY I.D. :** FL0025828  
(3116P00034)

6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis a Discharge Monitoring Report (DMR), Form 62-620.910(10), for each outfall, discharge point specified in Item(s) I.A and I.B above. The DMR shall include the test results for the parameters required to be sampled on the attached DMR form. The DMR shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection  
Wastewater Facilities Regulation Section, Mail Station 3550  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

*[62-620.610(18), 11-29-94][62-601.300(1), (2), and (3), 5-31-93]*

7. Unless specified otherwise in this permit, all reports and notifications required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northeast District Office at the address specified below:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite 200 B  
Jacksonville, Florida 32256

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

8. The Department reserves the right to require the implementation of an ambient surface water monitoring program. A plan of study could be required to be submitted to the Department to provide surface water quality monitoring at upstream and downstream locations. The monitoring program would be coordinated with the Department as a part of water quality based effluent limitations as referenced in Department Rule 62-650.500(5)(a) FAC.

## II. RESIDUALS MANAGEMENT REQUIREMENTS

### Basic Management Requirements

1. The method of residuals disposal by this facility by land application .
2. The domestic wastewater residuals for this facility are classified as stabilization Class B.
3. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-1-91]*

**PERMITTEE:**  
 Ortega Hills  
 United Water Florida

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
**EXPIRATION DATE:** DRAFT  
**FACILITY I.D. :** FL0025828  
 (3116P00034)

**DRAFT**

4. The wastewater treatment facility permittee shall be responsible for proper handling, use and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
5. The permittee shall sample and analyze the residuals at least once every 6 months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

4. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
5. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
6. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]

PERMITTEE:  
Ortega Hills  
United Water Floirda

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828  
(3116P00034)

**DRAFT**

7. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
8. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
9. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
10. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
11. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
12. The wastewater treatment facility permittee shall notify the Department's Jacksonville District Office by letter of any modifications or expansions of the approved residuals land application sites. The notice shall be submitted prior to such expansion or modification. Expansions include additional site locations for the permittee's residuals. The letter shall include a site location map and shall state how the modified or expanded residuals land application site will be operated in accordance with all requirements of Chapter 62-640, F.A.C. A new or revised Agricultural Use Plan shall be submitted to the Department's Jacksonville District Office with the annual update required by Rule 62-640.500(1)(f), F.A.C. The current Agricultural Use Plan identifies residuals landspreading on:  
  
1,792 acres of the Maguire Timber site located in near SR16 and SR 16A, in western St. Johns County, Florida. [62-640.300(2), 3-1-91]
13. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
14. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
15. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]

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16. The permittee shall maintain records of application and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request of this Department or the appropriate Local Environmental Program. These records shall include:

- a. Date of application of the residuals,
- b. Location of the residuals application site,
- c. Amount of residuals applied or delivered,
- d. Identification of specific areas of the site where residuals were applied and acreage of that area,
- e. Method of incorporation of residuals (if any),
- f. Water table level at time of application, and
- g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide annual updates to the Agricultural Use Plan as required by Permit Condition II.12, summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of the wastewater residuals analysis for that period, shall be submitted to the Department's Jacksonville District Office by October 1st of each year. [62-640.700(3)(e) and (p), 3-1-91]

### III. GROUNDWATER MONITORING REQUIREMENTS (Not Applicable)

### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS (Not Applicable)

### V. OPERATION AND MAINTENANCE REQUIREMENTS

#### Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class C and operators with appropriate certification must be on the site as follows: A Class C or higher operator 6 hours/day for 5 days/week and one visit on each weekend day. The lead operator must be a Class C operator, or higher. [62-699, 5-20-94] [62-620.630(3), 11-29-94][62- 699.310, 5-20-92] [62-610.462(2), 4-2-90]
2. The lead operator shall be on duty for one full shift each duty day. A certified operator shall be on-site and in charge of each required shift and for periods of required staffing time when the lead operator is not on-site. [62-699.311(10) and (5), 5-20-92]
3. A certified operator shall be on call during periods the plant is unattended. [62-699.311(1), 5-20-92]



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**Capacity Analysis Report and Operation and Maintenance Performance Report Requirements**

4. An updated capacity analysis report shall be submitted to the Department with the application for permit renewal. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
5. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1), 6-8-93]

**Recordkeeping Requirements**

6. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility or at the following address: 1400 Millcoe Road, Jacksonville, Florida.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of the facility record drawings;
  - h. Copies of the licenses of the current certified operators; and
  - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed. [62-620.350, 11-29-94][61E12-41.010(1)(e), 11-02-93]

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**VI. SELF-IMPOSED IMPROVEMENT SCHEDULES**

1. In accordance with the engineering report received May 3, 1995, and the information received on June 27, 1995, submitted as part of the permit application for this facility and as prepared by CH2M Hill, Inc., this facility can be operated in the contact/stabilization mode in the complete mix mode. [62-600.735(1), 6-8-93]
2. A tentative agreement between United Water Florida and the Ortega Utility Company calls for the diversion of all flows to the Ortega Utility wastewater treatment facilities. All construction associated with this diversion shall require, as a minimum, the submittal of a collection/transmission permit application to the Department and may require permit applications to other agencies. The existing facility shall be properly and safely abandoned. The Department shall be kept informed of the progress of this schedule. The following proposed construction schedule for the modifications to phase-out and eliminate the existing facilities shall be followed, unless notification of a schedule revision is provided to the Department:

Implementation Step	Scheduled Completion Date
1. Preliminary Plans Complete.	October 30, 1995
2. Final Plans and Specifications Complete.	May 30, 1996
3. Begin construction.	August 30, 1996
4. End Construction .	July 30, 1997
5. Begin Diversion of Flows to Regional Plant .	August 30, 1997
6. Operational Level - System flows fully diverted.	September 30, 1997

If the permittee decides to maintain, modify or expand the facility, the Department shall be promptly notified and a permit application for renewal or a major modification must be submitted along with the appropriate fee to the Department.

[62-620.450(3)(a), 11-29-94]

**VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS (not applicable)**

**VIII. OTHER SPECIFIC CONDITIONS**

1. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. [62-620.410(5), 11-26-94]
2. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. [62-620.620(1)(g), 11-29-94]
2. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. [62-600.410(8), 6-8-93]

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4. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited. [62-604.130(3), 5-31-93]
5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550, 5-31-93] [62-620.610(20), 11-29-94]
6. The acceptance, by the operating authority of a collection/transmission system or by the permittee of a treatment plant, of connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
- Which may cause fire or explosion hazards; or
  - Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - Which result in treatment plant discharges having temperatures above 40°C is prohibited. [62-604.130(4), 5-31-93]
7. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. [62-600.400(2)(b), 6-8-93]
8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. [62-7.540, 12-10-85]
9. The permittee shall provide adequate notice to the Department of the following:
- Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of this chapter if it were directly discharging those pollutants; and
  - Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility. [62-620.625(2), 11-29-94]

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10. Jacksonville Environmental Protection Board Requirements:

This facility may be subject to certain local ordinances. The Permittee shall contact the Water Quality Division, City of Jacksonville, 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111, concerning the requirements of Jacksonville Environmental Protection Board (EPB) Rules.

**IX. GENERAL CONDITIONS**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1), 11-29-94]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2), 11-29-94]
3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3), 11-29-94]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4), 11-29-94]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5), 11-29-94]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6), 11-29-94]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7), 11-29-94]

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8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), 11-29-94]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, where applicable, upon presentation of credentials or other documents as may be required by law, at reasonable times, depending upon the nature of the concern being investigated, to:
- Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - Have access to and copy any records that shall be kept under the conditions of this permit;
  - Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules. [62-620.610(9), 11-29-94]
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10), 11-29-94]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11), 11-29-94]
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12), 11-29-94]
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13), 11-29-94]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14), 11-29-94]

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15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15), 11-29-94]
16. The permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16), 11-29-94]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
- A description of the anticipated noncompliance;
  - The period of the anticipated noncompliance, including dates and times; and
  - Steps being taken to prevent future occurrence of the noncompliance.

[62-620.610(17), 11-29-94]

18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
- Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
  - If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
  - Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

[62-620.610(18), 11-29-94]

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19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted to the Department within 14 days following each schedule date. [62-620.610(19), 11-29-94]
20. The permittee shall report to the Department any noncompliance which may endanger the health of the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 72 hours of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact date and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
1. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
  2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
  3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
  4. Any unauthorized discharge to surface or ground waters.
- b. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report. [62-620.610(20), 11-29-94]
21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX. 20 of this permit. [62-620.610(21), 11-29-94]
22. Bypass Provisions.
- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
  2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  3. The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.

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- b.** If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated duration expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence.
- c.** The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1. through 3. of this permit.
- d.** A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit. [62-620.610(22), 11-29-94]

### 23. Upset Provisions

- a.** A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
1. An upset occurred and that the permittee can identify the cause(s) of the upset;
  2. The permitted facility was at the time being properly operated;
  3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
  4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b.** In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c.** Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23), 11-29-94]

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

DRAFT

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Jerry Owen, P.E.  
Water Facilities Administrator



PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

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FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DOMESTIC WASTEWATER FACILITY PERMIT

Permit Number: FL0025828

Application Date: June 14, 1995

Additional Information: June 14, 1995

Permit Writer: Jeff Martin, P.E.

Public Notice: September 6, 1995

1. SYNOPSIS OF APPLICATION

- a. Name and Address of Applicant  
Mr. Philip Heil , Vice President  
United Water of Florida  
1400 Millcoe Road  
Jacksonville , Florida 32225

For:

Ortega Hills Regional Wastewater Treatment Plant  
5033 Greenway Drive  
Jacksonville, Florida  
Duval County

- b. Type of Facility

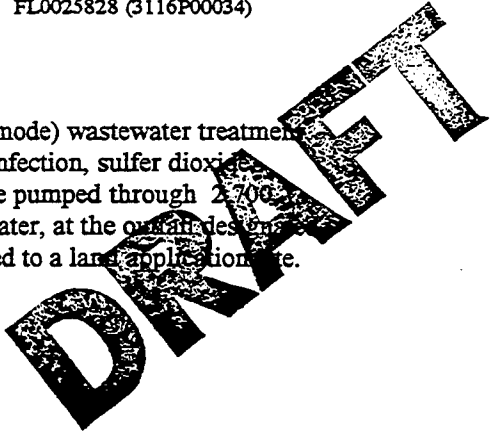
Domestic Wastewater Treatment Plant  
Privately-owned treatment works  
Standard Industrial Classification Code: 4952

- c. Facility Capacity

Existing Design Capacity:	0.170 MGD AADF
Proposed Increase in Design Capacity:	0.050 MGD AADF
Existing Permitted Capacity:	0.220 MGD AADF

PERMITTEE:  
 Mr. Philip Heil, Vice President  
 United Water Florida

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d. Description of Facilities

A contact-stabilization (optional complete mix operation mode) wastewater treatment facility with influent screening, clarification, chlorine disinfection, sulfur dioxide dechlorination, post aeration with the permitted discharge pumped through 2,700 linear feet of force main to the Ortega River, a Class III water, at the outfall designated as D001. The residuals are aerobically digested, and hauled to a land application site.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge:

Receiving Waters: Ortega River

Outfall D0001 . Receiving waters are Class III waters.

Latitude: 30 ° 12 ' 50 "

Longitude: 81 ° 42 ' 36 "

See Attachment A for a map showing the location(s) of the receiving waters and discharge location(s).

f. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

Outfall Serial Number D001 :

0.162 Flow (MGD): Annual average daily

pH Range (Standard Units): 6.8 to 7.7

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
CBOD <sub>5</sub> , mg/L	1.7	1.2	2.5
TSS, mg/L	3.4	1.8	8.2
Fecal Coliform, #/100 ml	--	--	125
TRC (for disinfection), mg/L	0.5	--	--
TRC (for dechlorination), mg/L	0.01	--	--
TKN, mg/L	2.4	0.44	6.45
Dissolved Oxygen, mg/L	8.3	7.4	9.4

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Mr. Philip Heil, Vice President  
United Water Florida

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2. PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

Outfall Serial Number D001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Yearly Average	Single Sample
Flow, MGD	Maximum	0.220	--	--	--
CBOD <sub>5</sub> , mg/L	Maximum	5.0	5.0	6.0	8.0
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	400	--	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.50
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.5 to 8.5			
TKN, mg/L	Maximum	11.0	11.0	13.2	17.6
Dissolved Oxygen, mg/L	Minimum				7.0
Ultimate Oxygen Demand, (UOD), lbs/day	Maximum	--	81.4	--	--

3. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Part I.A

Outfall D001:

PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828 (3116P00034)

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub> (Treatment beyond secondary, WQBEL, multipliers applied)	Annual Average	62-600.420(2) or 430 or 510 FAC, 62-650 FAC & 62-600.740(1)(b)2.a. FAC
	Monthly Average	62-600.740(1)(b)2.b. FAC
	Weekly Average	62-600.740(1)(b)2.c. FAC
	Single Sample Max.	62-600.740(1)(b)2.d. FAC
TSS (Secondary, TBEL, non-ocean discharge)	Annual Average	62-600.420(1)(a) & 62-600.740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
pH (WQBEL)	Minimum and Maximum	62-650 FAC
Chlorination (for disinfection and dechlorination) (Basic disinfection)	UV Intensity	62-600.440(4)(b) FAC
Acute Whole Effluent Toxicity	Not toxic	62-4. & 62-302. FAC
Dissolved Oxygen (WQBEL)	Minimum	62-650 FAC
TKN  unionized ammonia	Annual Average	62-650 FAC & 62-600.740(1)(b)2.a. FAC
	Monthly Average	62-600.740(1)(b)2.b. FAC
	Weekly Average	62-600.740(1)(b)2.c. FAC
	Single Sample Max.	62-600.740(1)(b)2.d. FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

Chapter	Effective Date
62-4	02-02-94
62-302	02-27-95
62-550	09-07-94
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-650	11-27-89
62-699	05-20-92

B. FS refers to various portions of the Florida Statutes

C. CFR refers to various portions of the Code of Federal Regulations, Title 40

D. BPJ refers to Best Professional Judgment

PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828 (3116P00034)

A review of the Department files was performed for information concerning the discharge from this facility. A previous permit under the name of Atlantic Utilities, indicated that this facility was permitted as a 0.250 MGD contact-stabilization plant. The Department performed a CEI type inspection in June 1994. This facility is scheduled to be phased-out, and flows diverted to Ortega Blanding Regional WWTP.

Several DEP documents were reviewed concerning the history of the limitations for this facility. The original WQBEL document, Ortega River-Tidal Portion Wasteload Allocation, dated March 1980, specified zero discharge for some dischargers including this facility. However, this was reevaluated in December 1986 and with an addendum in October 1987 with a resulting decision and allowed discharges with strict limitations at some facilities. Ultimate oxygen demands were determined. There is also a DEP and Dames and Moore report dated February 13, 1989 for flows permitted up to 0.250 MGD and a memo titled Water Quality Based Effluent Limitations for Ortega Hills WWTP, Duval County, dated August 15, 1989. Based upon this document, the effluent limits that were in the current permit were not prorated properly in accordance with the Rule 62-600.740(2)(a) FAC. This rule describes the proration for limits that are more stringent than secondary which includes WQBELs. Thus, the annual average limit will be made the same as the WQBEL monthly maximum limit. The present limits are considered adequate for this discharge. Also, as an additional reference see the Ortega Blanding file. This facility has requested for an interim time period that the facility be allowed to increase the AADF from 0.170 MGD to 0.220 MGD. The facility will be phased out and connected to the Ortega Utility regional system. The increased flow limitation is allowed for the interim period, however, the facility will be held to the most stringent condition of effluent concentration or mass loading based upon the 0.170 MGD flow value. The facility did have some high reported flow values, however, recent inflow and infiltration corrections as well as calibration of the flow meter resulted in reduced flow and they are averaging below 0.170 MGD. In addition, nutrient monitoring of the effluent will be required on a quarterly basis.

The UOD loading decision is an interim measure assuming the phase-out of the facility. The loading decision would be re-evaluated in the event the facility is maintained in operation beyond the scheduled completion date.

Other Limitations and Monitoring Requirements:

PERMITTEE:  
 Mr. Philip Heil, Vice President  
 United Water Florida

PERMIT NUMBER: FL0025828  
 ISSUANCE DATE: DRAFT  
 EXPIRATION DATE: DRAFT  
 FACILITY I.D. : FL0025828 (3116P00034)

**DRAFT**

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub> (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC
TSS (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC

The following were used as the basis of the permit conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective dates of FAC Rule Chapters cited in the table are as follows:

(Include applicable Chapters.)

<u>Chapter</u>	<u>Effective Date</u>
62-600	06-08-93
62-601	05-31-93

4. RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: Class C.

Proposed method of residuals use or disposal: Land application at site in St. Johns County.

See the table below for the rationale for the Part II.A. residuals limits and monitoring requirements.

PERMITTEE:  
 Mr. Philip Heil, Vice President  
 United Water Florida

PERMIT NUMBER: FL0025828  
 ISSUANCE DATE: DRAFT  
 EXPIRATION DATE: DRAFT  
 FACILITY I.D. : FL0025828 (3116P00034)

Parameter		Basis for Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC
Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC
Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

**DRAFT**

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

*(Include applicable Chapters.)*

<u>Chapter</u>	<u>Effective Date</u>
62-640	03-01-91

PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828 (3116P00034)

**DRAFT**

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

The permittee/facility is not required to develop an industrial pretreatment program. The service area has no significant industrial users pursuant to Chapter 62-625, F.A.C.

6. COMPLIANCE SCHEDULE AND EFFECTIVE DATE OF PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

There is a schedule of increments of progress to phase-out the facility and divert flows to the regional facility, Ortega Utilities (Blanding) WWTP. The reporting of effluent nutrients will be performed, but the routine surface water ambient nutrient monitoring will not be required. Based upon the proposed phase-out and the plant size, toxicity testing is deferred at this time.

7. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The current wastewater facility permit ( DO16-163819 ) expired on July 1, 1995 and contains the following effluent or reclaimed water limits:

For Surface Water Discharge:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	0.170	--	--	--
BOD <sub>5</sub> , mg/L	Maximum	4.0	5.0	6.0	8.0
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	400	--	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.0 to 8.0			
TKN, mg/L	Maximum	8.8	11	13.2	17.6
Dissolved oxygen, mg/L	Minimum	--	--	--	7.0
Ultimate Oxygen Demand, (UOD), lbs/day	Maximum	--	81.4	--	--



PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828 (3116P00034)

8. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

For this existing surface water discharge, the Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal. The Department performed a one year study concerning the discharge location.

**DRAFT**

9. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Jeff Martin ,P.E.  
Water Facilities Section  
Department of Environmental Protection , Northeast District  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Telephone No.: (904) 448-4330

10. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 11.

11. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant ..... September 6, 1995  
Proposed Public Comment Period ..... Beginning: September 15, 1995  
Ending: October 15, 1995  
Proposed permit to EPA ..... October 30, 1995  
Notice of Agency Action ..... November 5, 1995  
Proposed Effective Date of Permit ..... November 20, 1995

PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828 (3116P00034)

12. PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE

a. Public Comment Period

The Department of Environmental Protection proposes to issue a wastewater facility permit to this applicant subject to the aforementioned reclaimed water or effluent limitations and conditions. This decision is tentative and open to comment from the public.

Interested persons are invited to submit written comments regarding permit issuance on the draft permit limitations and conditions to the following address:

Department of Environmental Protection , Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256

Attn: Jeff Martin, P.E.

All comments received within 30 days following the date of public notice, pursuant to Rule 62-620.550, F.A.C., will be considered in the formulation of the final decision with regard to permit issuance.

Any interested person may submit written comments on the Department's proposed permitting decision or may submit a written request for a public meeting to the address specified above, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the above named District office of the Department within 30 days of receipt or publication of the public notice. Failure to submit comments or request a public meeting within this time period will constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

The comments or request for a public meeting shall contain the following information:

- (1) The commenter's name, address and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when notice of the draft permit was received;
- (3) A description of any changes the commenter proposes for the draft permit;
- (4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and
- (5) A request that a public meeting be scheduled (if applicable) including a statement of the nature of the issues proposed to be raised at the meeting.

PERMITTEE:  
Mr. Philip Heil, Vice President  
United Water Florida

PERMIT NUMBER: FL0025828  
ISSUANCE DATE: DRAFT  
EXPIRATION DATE: DRAFT  
FACILITY I.D. : FL0025828 (3116P00034)

b. Public Meeting

The Department will hold a public meeting if there is a significant degree of public interest in the draft permit or if it determines that useful information and data may be obtained thereby. Public notice of such a meeting shall be published by the applicant at least 30 days prior to the meeting.

If a public meeting is scheduled the public comment period shall extend to the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data at the meeting on the Department's proposed action.

c. Issuance of the Permit

The Department will make its decision regarding permit issuance after consideration of all written comments, including comments from the United States Environmental Protection Agency on surface water discharge aspects of the draft or proposed permit; the requirements of Chapter 403, F.S., and appropriate rules; and, if a public meeting is held, after consideration of all comments, statements and data presented at the public meeting. The Department will respond to all significant comments in writing. The Department's response to significant comments will be included in the administrative record of the permit and will be available for public inspection at the above named District office of the Department.

Unless a request for a administrative hearing, or an extension of time to file a petition for an administrative hearing, as indicated in d. below, is granted, the Department will take final agency action by issuing the permit or denying the permit application. If an administrative hearing is convened, final agency action will be based on the outcome of the hearing.

d. Administrative Hearing

A person whose substantial interests are affected by the Department's proposed permitting decision has the opportunity to petition for an administrative proceeding (hearing) to challenge the Department's decision in accordance with Section 120.57, F.S.

An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including the hearing officer's findings of fact, based on the evidence presented at the hearing. The Department will issue a final order, granting or denying the permit, based on the hearing officer's recommended order.

**PERMITTEE:**  
Mr. Philip Heil, Vice President  
United Water Florida

**PERMIT NUMBER:** FL0025828  
**ISSUANCE DATE:** DRAFT  
**EXPIRATION DATE:** DRAFT  
**FACILITY I.D. :** FL0025828 (3116P)

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 90 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 217, F.S. The petition is to contain the following information:

- (1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (6) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in the notice of agency action. Persons whose substantial interests will be affected by any decision of the Department on the application have the right to petition to become a party to the proceeding, regardless of their agreement or disagreement with the Department's proposed action indicated in the notice of agency action.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

MAIL TO: Wastewater Facilities Regulation Section, Mail Station 3551, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Philip Heil, V.P.,  
 MAILING ADDRESS: United Water Florida  
 1400 Millcoo Road  
 Jacksonville, Florida 32225  
 FACILITY: Ortega Hills WWTP  
 LOCATION: 5033 Greenway Drive, Jacksonville

PERMIT NUMBER: FL0025828  
 MONITORING PERIOD--From:  
 LIMIT: Final  
 CLASS SIZE:  
 FACILITY ID: FL0025828, (3116P00034)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: 1C

To:  
 GROUP: Domestic

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
FLOW	Sample Measurement									
	Permit Requirement	0.220		MGD					DAILY	FLOWMETER
CARBONACEOUS BIOLOGICAL OXYGEN DEMAND (5 day)	Sample Measurement									
	Permit Requirement	Report	5.67	lbs/day					Every two weeks	8 hour, flow proportioned composite
CBOD5 (Annual Average)	Sample Measurement									
	Permit Requirement					3.2		mg/L	Every two weeks	8 hour, flow proportioned composite
CBOD5 (30 Day Average)	Sample Measurement									
	Permit Requirement					4.0	8.0	mg/L	Every two weeks	8 hour, flow proportioned composite
TOTAL SUSPENDED SOLIDS	Sample Measurement									
	Permit Requirement	Report	28.36	lbs/day					Every two weeks	8 hour, flow proportioned composite
TSS (Annual Average)	Sample Measurement									
	Permit Requirement					20		mg/L	Every two weeks	8 hour, flow proportioned composite
TSS (30 Day Average)	Sample Measurement									
	Permit Requirement					30	60	mg/L	Every two weeks	8 hour, flow proportioned composite
DISSOLVED OXYGEN	Sample Measurement									
	Permit Requirement				7.0			mg/L	Every two weeks	8 hour, flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE (YY/MM/DD)
		( )	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

ADDITIONAL SHEET 1A

PERMITTEE NAME: Philip Heil, V.P.,  
 MAILING ADDRESS: United Water Florida  
 1400 Millcoe Road  
 Jacksonville, Florida 32225  
 FACILITY: Ortega Hills WWTP  
 LOCATION: 5033 Greenway Drive, Jacksonville

PERMIT NUMBER: FL0025828  
 MONITORING PERIOD--From:  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0025828, (3116P00034)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: 1C

To:  
 GROUP: Domestic

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
TOTAL CHLORINE RESIDUAL (For Disinfection)	Sample Measurement										
	Permit Requirement				0.5			mg/L		DAILY	GRAB
CBOD5 INFLUENT	Sample Measurement										
	Permit Requirement				Report			mg/L		Every two weeks	8 hour, flow proportioned composite
TSS INFLUENT	Sample Measurement										
	Permit Requirement				Report			mg/L		Every two weeks	8 hour, flow proportioned composite
FECAL COLIFORM BACTERIA	Sample Measurement										
	Permit Requirement					200	800	per 100 mL		Every two weeks	GRAB
pH	Sample Measurement										
	Permit Requirement				6.5		8.5	Standard Units		Daily	GRAB
TOTAL CHLORINE RESIDUAL (After Dechlorination)	Sample Measurement										
	Permit Requirement				0.01			mg/L		Every two weeks	GRAB
TOTAL KJELDAHL NITROGEN (as N)	Sample Measurement										
	Permit Requirement	Report	12.48	lbs/day						Every two weeks	8 hour, flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO. ( )	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

ADDITIONAL SHEET 1B

PERMITTEE NAME: Phillip Hell  
 MAILING ADDRESS: United Water Florida  
 1400 Millcoo Road  
 Jacksonville, Florida 32225  
 FACILITY: Ortega Hills WWTP  
 LOCATION: 5033 Greenway Drive

PERMIT NUMBER: FL0025828  
 MONITORING PERIOD--From: To:  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0025828, (3116P00034)  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: 1C

GROUP: Domestic

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
TOTAL KJELDAHL NITROGEN (Annual Average)	Sample Measurement									
	Permit Requirement					8.8		mg/L		Every Two Weeks 8 hour, flow proportioned composite
TOTAL KJELDAHL NITROGEN (30 Day Average)	Sample Measurement									
	Permit Requirement					8.8	17.6	mg/L		Every Two Weeks 8 hour, flow proportioned composite
TEMPERATURE (Degrees F)	Sample Measurement									
	Permit Requirement							Degrees		Every Three Months Grab
TOTAL NITROGEN	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
TOTAL AMMONIA NITROGEN	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
ORGANIC NITROGEN	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
ORTHO PHOSPHOROUS	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite
TOTAL PHOSPHOROUS	Sample Measurement									
	Permit Requirement				Report			mg/L		Every Three Months 8 hour, flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO. ( )	DATE (YY/MM/DD)
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COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

### DAILY SAMPLE RESULTS - PART B

Facility ID: FL0025828

Month/Year:

Three-month Average Daily Flow: \_

Daily Flow % of Permitted Capacity:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30/31
Flow (MGD)																														
Chlorine Residual after Contact (mg/L as Cl <sub>2</sub> )																														
Chlorine Residual after Dechlorination (mg/L as Cl <sub>2</sub> )																														
CBOD, Influent (mg/L as O <sub>2</sub> )																														
TSS Influent (mg/L)																														
CBOD, Effluent (mg/L as O <sub>2</sub> )																														
CBOD, Effluent (lbs/day)																														
pH Effluent (standard units)																														
Fecal Coliform (#/100ML)																														
TSS Effluent (mg/L)																														
TSS Effluent (lbs/day)																														
TKN Effluent (mg/L)																														
TKN Effluent (lbs/day)																														
Dissolved Oxygen (mg/L)																														
Total Ammonia (mg/L as N)																														
Temperature (o F)																														
Carbonaceous UOD																														
Nitrogenous UOD																														
Ultimate Oxygen Demand, UOD																														

PLANT STAFFING:

Day Shift Operator	Class:	Certificate No.:	Name:
Evening Shift Operator	Class:	Certificate No.:	Name:
Night Shift Operator	Class:	Certificate No.:	Name:
Lead Operator	Class:	Certificate No.:	Name:

Type of Effluent Disposal or Reclaimed Water Reuse:  
 Limited Wet Weather Discharge Activated: Yes: No: Not Applicable: If yes, cumulative days of wet weather discharge:  
 \*Attach additional sheets if necessary to list all certified operators.



## INSTRUCTIONS FOR MONITORING REPORT

### PART A - Discharge Monitoring Report

One report shall be completed and submitted for each discharge point, outfall, or testing site listed in the permit. Use additional sheets if necessary. Mail to Department of Environmental Protection at the address shown on the first page of report.

**Permittee Name/Address:** Complete the name as shown on the face of the permit. Complete the mailing address. Place a note beside the mailing address if the address has changed within the past month.

**Facility/Location:** Complete the name of the facility and the address or location of the facility.

**Permit Number:** This is the number of the permit issued to the permittee which contains the monitoring requirements in this report.

**Monitoring Period:** This is the period that the data on this report represents.

**Limit:** This is blank if the data represents interim limits on a facility under construction. If the data represents final limits achieved after construction, the word FINAL will be here.

**Class Size/Group:** The facility classification is either major or minor and the group is either industrial or domestic.

**Facility ID:** This is the identification number of the facility which was assigned by the Department at the time the facility was constructed.

**Discharge Point Number:** This is the number in the permit assigned to the outfall, discharge point, or test site from which this data was collected. Complete one of these reports for each outfall or discharge point from your facility.

**Plant size/Treatment type:** If this facility is a domestic wastewater treatment facility, enter a one digit and one letter code to indicate the type of treatment and the plant size. First record the number from the chart below represents the type of treatment provided by the facility. Then record the letter that indicates the permitted capacity (plant size) as shown on the chart below.

	Type of Treatment	Plant Size (mgd)			
		A	B	C	D
1	Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes (Nitrification alone is not considered nutrient removal.)	≥3.0	≥0.5 but <3.0	≥0.002 but <0.5	...
2	Activated Sludge or Combined Treatment systems that do not include removal processes	≥5.0	≥1.0 but <5.0	≥0.002 but <1.0	...
3	Activated Sludge operated in the extended aeration mode and oxidation ditches	≥8.0	≥2.0 but <8.0	≥0.025 but <2.0	≥0.002 but <0.025
4	Attached Growth Treatment systems (trickling filters or RBCs) that do not include nutrient removal processes	≥10.0	≥3.0 but <10.0	≥0.025 but <3.0	≥0.002 but <0.025

**Parameter:** This is the variable or substance which must be monitored.

**Sample Measurement:** The data which was collected and analyzed.

**Permit Requirement:** The limit from the permit for that parameter and measurement.

**Quantity or Loading:** The amount or mass of the parameter discharged during the reporting period in Average quantity discharged during the reporting period after adding each day of discharge, Maximum quantity discharged on the day with the highest amount, and the Unit of measurement (lbs, g, tons, etc.)

**Quality or Concentration:** The concentration of the parameter discharged during the reporting period in Minimum concentration during the reporting period, Average of all the measurements for the parameter during the reporting period, Maximum or highest concentration discharged during the reporting period, and the Unit of measurement (mg/L, ug/L, etc.)

**No. Ex.:** The number of sample measurements during the sampling period that exceeded the maximum (minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter zero.

**Frequency of Analysis:** The number of times the measurement is required to be made by the permit and the number of times the measurement was made.

**Sample Type:** The type of sample (grab, composite, continuous) required to be taken by the permit and the type that was taken.

**Certificate, Signature:** This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Date when the report is signed.

**Comment and Explanation:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation.

### PART B - DAILY SAMPLE RESULTS

Complete one sheet for each outfall, discharge point, or test site where daily sampling is required by the permit. Record the results of daily monitoring for the parameters required to be sampled daily by your permit. Record the data in the units indicated. If there are no fecal coliforms detected, enter ND in the row labeled "fecal coliform." Use the blank rows as needed.

List the name, certificate number, and class of all state certified operators. Use additional sheets as necessary.

**PART B - DAILY SAMPLE RESULTS contd.**

Enter the type of effluent disposal or reclaimed water reuse (surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application, absorption field, underground injection).

If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check not applicable. If the plant activated the wet weather discharge during the reporting month, check yes and attach PART C - LIMITED WET WEATHER DISCHARGE.

**PART C - GROUNDWATER MONITORING REPORT**

This part is applicable only to groundwater monitoring wells. Type or print in ink the required data. All samples shall be collected and analyzed in accordance with Chapter 62-160, F.A.C. Laboratory reports shall be kept on file in the location indicated in your permit and made available for inspection upon request by the Department.

**Facility ID:** This is the identification number of the facility assigned by the Department.

**Test Site ID:** This is the identification number of the sampling site listed in your permit.

**Month/Year:** This is the period during which the data on this report was collected and analyzed. If the period is greater than one month, indicate beginning month to ending month.

**Well Type:** Indicate if the well being sampled is background, intermediate, compliance, or other. If other, explain in the comment section.

**Date Sample Obtained:** This is the date the sample was taken.

**Ground Water Class:** This is the classification of the ground water under Chapter 62-522, F.A.C.

**Parameter:** Analyze the parameters the permit requires. List any additional parameters from the permit which are not pre-listed here. If there are any parameters listed here which are not required by your permit, enter NR on that line.

**Storet Code:** Enter the Storet Code associated with the parameter.

**Sampling Method:** Describe the sampling method used.

**Samples Filtered:** Indicate whether the sample obtained was filtered (Y) or unfiltered (N).

**Preservatives Added:** State what preservatives were added to the sample.

**Analysis Method:** Indicate the analytical method used. Record the number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

**Analysis Result/Units:** Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.

**Detection Limits/Units:** Record the detection limits and the units associated with them.

**Comments and Explanations:** Use this space to make any comments on or explanations of results which are unexpected.



# Department of Environmental Protection

GRIFFIS / GRIMES  
File

cc - DON HOJEN  
SCOTT TOWNE

Griffis

File

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL - RETURN RECEIPT

February 4, 1997

Mr. Munipalli Sambamurthi, Vice president, Manager  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

RECEIVED

EX-100

UNITED WATER FLORIDA

Duval -- Domestic Wastewater  
Ortega Hills Wastewater Facility

Enclosed is a revision to Permit Number FL0025828 to operate a 0.220 MGD contact stabilization wastewater treatment plant with effluent disposal to the Ortega River issued under section(s) 403.087 of the Florida Statutes.

The revision includes a modification of the Discharge Monitoring Report (DMR) and certain pages of the permit. The modified DMR will replace the form issued with the permit on October 25, 1995. The pages of the permit are being modified to reflect changes in Department computer codes. There are no changes to effluent limits or monitoring requirements. Attach the modified pages to the permit as they become a part thereof. All other portions of the permit remain in effect and are fully enforceable.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Munipalli Sambamurthi, Vice President, Manager  
Ortega Hills Wastewater Facility  
page two

- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

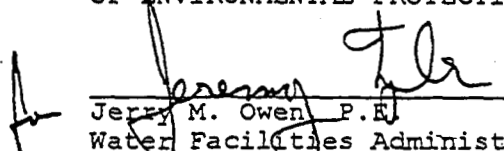
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

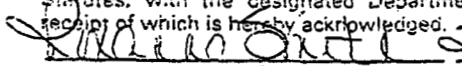
*OPW*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
  
Jerry M. Owen, P.E.  
Water Facilities Administrator

JMO/JR

cc: Darryl Joyner, FDEP, Tallahassee

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on February 6 1997 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.  
  
Clerk Date 2/6/97

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. #: FL0025828  
 ISSUANCE DATE: OCTOBER 25, 1995  
 EXPIRATION DATE: OCTOBER 25, 2000  
 APPLICATION NO.: 270241  
 REVISION: NOVEMBER 27, 1995

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharge**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to the Ortega River. Such discharge shall be limited and monitored by the permittee as specified below:

*[62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 1-5-93] [62-610.860, 4-2-90]*

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	MGD	Maximum	0.220	--	--	--	Continuous	Flow meter & totalizer	EFD-1	See Item I.A.2
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	4.0	4.0	6.0	8.0	Every two weeks	8 hour, flow proportioned composite	EFD-1	See Item I.A.7
Total Suspended Solids	mg/L	Maximum	20	30	45	60	Every two weeks	8 hour, flow proportioned composite	EFD-1	See Item I.A.7
Fecal Coliform Bacteria	See Permit Condition I. A. 6						Every two weeks	Grab	EFD-1	
Total Chlorine Residual (For Disinfection)	See Permit Condition I. A. 8						5 days per week	Grab or continuous	EFD-1	
Total Chlorine Residual (For Dechlorination)	See Permit Condition I. A. 9						Every two weeks	Grab or continuous	EFA-1	
pH	std. units	Range	-	-	-	6.5 to 8.5	5 days per week	Grab or continuous	EFD-1	

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. # : FL0025828  
 ISSUANCE DATE: OCTOBER 25, 1995  
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 REVISION: NOVEMBER 27, 1995

I. A. continued

Annual Average	Units	Max/Min	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
TKN	mg/L	Maximum	8.8	8.8	13.2	17.6	Every two weeks	8 hour, flow proportioned composite	EFD-1	See Item I.A.7	
Dissolved Oxygen	mg/L	Minimum	--	--	--	7.0	Daily	Grab or instrument	EFD-1		
NH3-N Total	mg/L	Report	--	--	--	--	Every two weeks	8 hour, flow proportioned composite	EFD-1		
Temperature	o F	Report	--	--	--	--	Every two weeks	Grab at time of sample collection	EFD-1		
Whole Effluent Toxicity	See Permit Condition I. A.10						--	--	EFD-1		
Nutrient Monitoring	See Permit Condition I. A.12						--	--	EFD-1		

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A.1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-1	Effluent, after disinfection
EFD-1	Effluent, after final treatment and prior to discharge to the receiving water

3. The three month average daily flow to Outfall D001 shall not exceed 0.220 MGD

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. #: FL0025828  
ISSUANCE DATE: OCTOBER 25, 1995  
EXPIRATION DATE: OCTOBER 25, 2000  
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REVISION: NOVEMBER 27, 1995

12. The facility shall perform an 8 hour flow-proportioned composite sample of the final effluent, from outfall D001, for the following nutrient parameters on a quarterly basis:

Total Nitrogen, Organic nitrogen, Total phosphorous, ortho phosphorous

The sample shall be taken at the same time as a normal sampling event, as defined for TKN in I.A.1 above. The results for each quarter sampling are due to be received at the Jacksonville DEP domestic waste section office by the following date for the duration of this permit:

First quarter report	no later than	April	28
Second quarter report	no later than	July	28
Third quarter report	no later than	October	28
Fourth quarter report	no later than	January	28

**B. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

[17-601.300(1), 5-31-93]

Parameter	Units	Max/Min	Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow-proportioned composite	INF-1	See Item I.B.3	
Total Suspended Solids	mg/L	-	-	-	-	-	Every two weeks	8 hour, flow proportioned composite	INF-1	See Item I.B.3	

PERMITTEE:  
United Water Florida

PERMIT/FACILITY I.D. # : FL0025828  
ISSUANCE DATE: OCTOBER 25, 1995  
EXPIRATION DATE: OCTOBER 25, 2000  
APPLICATION NO.: 270241  
REVISION: NOVEMBER 27, 1995

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. B.1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
INF-1	Influent, prior to any biological treatment

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters [62-601.500(4), 5-31-93]
4. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. [62-620.610(18), 11-29-94]
5. The permittee shall provide safe access points for obtaining representative influent, and effluent samples which are required by this permit. [62-601.500(5), 5-31-93]



**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0025828  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Minor

To: \_\_\_\_\_  
 REPORT: Monthly  
 GROUP: Domestic

FACILITY: Ortega Hills Wastewater facility  
 LOCATION: 5033 Greenway Drive  
 Ortega Hills Subdivision

FACILITY ID: FL0025828  
 GMS ID NO.: 3116P00334  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IHC

WAFR SITE NO.: 9005  
 GMS TEST SITE NO.: 3116X10687

COUNTY: Duval

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 50050 Y Mon. Site No. EFD-1	Permit Measurement	0.220 (Ann. Avg.)	mgd				Daily, 5/week	Elapsed Time Meter
Flow	Sample Measurement							
STORET No. 50050 I Mon. Site No. EFD-1	Permit Measurement	Report (Mo. Avg.)	mgd				Daily, 5/week	Elapsed Time Meter
CBOD5	Sample Measurement							
STORET No. 80082 Y Mon. Site No. EFD-1	Permit Measurement			4.0 (Ann. Avg.)	mg/L		Every 2 Weeks	8-hr COMP
CBOD5	Sample Measurement							
STORET No. 80082 I Mon. Site No. EFD-1	Permit Measurement			4.0 (Mo. Avg.)	mg/L		Every 2 Weeks	8-hr COMP
TSS	Sample Measurement							
STORET No. 00530 Y Mon. Site No. EFD-1	Permit Measurement			20.0 (Ann. Avg.)	mg/L		Every 2 Weeks	8-hr COMP
TSS	Sample Measurement							
STORET No. 00530 I Mon. Site No. EFD-1	Permit Measurement			30.0 (Mo. Avg.)	mg/L		Every 2 Weeks	8-hr COMP
pH	Sample Measurement							
STORET No. 00406 I Mon. Site No. EFD-1	Permit Measurement			6.0 (Min.)	8.5 (Max.)	S.U.	Daily, 5/week	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY NAME: Ortega Hills WWTP

PERMIT NUMBER: FL0025828

DISCHARGE POINT NUMBER: D001

WAFR SITE No.:9005

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement							
STORET No. J1615 Y Mon. Site No. EPD-1	Permit Measurement			200 (Ar. Avg.)	#/100mL		Every 2 Weeks	Grab
Fecal Coliform Bacteria	Sample Measurement							
STORET No. J1615 1 Mon. Site No. EPD-1	Permit Measurement			Report (Mo. Geo. Mean)	800 (Max.)		Every 2 Weeks	Grab
TRC for disinfection	Sample Measurement							
STORET No. 50060 A Mon. Site No. EFA-1	Permit Measurement			0.5 (Min.)	mg/L		Daily, 5/week	Grab
TRC for dechlorination	Sample Measurement							
STORET No. 50060 1 Mon. Site No. EPD-1	Permit Measurement			0.01 (Max.)	mg/L		Daily, 5/week	Grab
TKN	Sample Measurement							
STORET No. 00625 Y Mon. Site No. EPD-1	Permit Measurement			8.8 (Ann. Avg.)	mg/L		Every 2 Weeks	8-hr COMP
TKN	Sample Measurement							
STORET No. 00625 1 Mon. Site No. EPD-1	Permit Measurement			8.8 (Mo. Avg.)	17.6 (Max.)	mg/L	Every 2 Weeks	8-hr COMP
DISSOLVED OXYGEN	Sample Measurement							
STORET No. 00300 1 Mon. Site No. EPD-1	Permit Measurement			7.0 (Min.)	mg/L		Daily, 5/week	Grab
TEMPRATURE, DEG F	Sample Measurement							
STORET No. 00010 1 Mon. Site No. EPD-1	Permit Measurement			Report (Max)	DEG F		Every 2 Weeks	Grab
AMMONIA, TOTAL AS N	Sample Measurement							
STORET No. 00610 1 Mon. Site No. EPD-1	Permit Measurement			Report (Max)	mg/L		Every 2 Weeks	8-hr COMP
CBOD5	Sample Measurement							
STORET No. 80082 G Mon. Site No. INF-1	Permit Measurement			Report (Mo. Avg.)	mg/L		Every 2 Weeks	8-hr COMP
TSS	Sample Measurement							
STORET No. 00530 G Mon. Site No. INF-1	Permit Measurement			Report (Mo. Avg.)	mg/L		Every 2 Weeks	8-hr COMP



### DAILY SAMPLE RESULTS - PART B

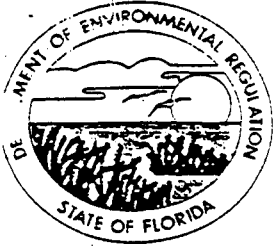
Facility ID:  
Month/Year:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

**Plan Staffing:**

Day Shift Operator	Class _____	Certificate No. _____	Name: _____
Evening Shift Operator	Class _____	Certificate No. _____	Name: _____
Night Shift Operator	Class _____	Certificate No. _____	Name: _____
Lead Operator	Class _____	Certificate No. _____	Name: _____

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
Limited Wet Weather Discharge Activated: Yes \_\_\_ No \_\_\_ Not Applicable \_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_  
\*Attach additional sheets necessary to list all certified operators necessary for required operations.



# Florida Department of Environmental Regulation

Northeast District • 3426 Bills Road • Jacksonville, Florida 32207 • 904-798-4200

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Ernest Frev, Deputy Assistant Secretary

## NOTICE OF PERMIT ISSUANCE

### CERTIFIED - RETURN RECEIPT

Mr. Greg Matovina, President  
Ponce de Leon Utilities  
1300 Gulf Live Drive  
Jacksonville, Florida 32207

Dear Mr. Matovina:

St. Johns County - DW  
Ponce de Leon STP

Enclosed is Permit Number D055-167124 to operate the subject sewage treatment plant system issued pursuant to Section(s) 403.061(14), Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

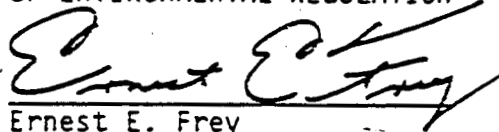
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



Ernest E. Frey  
Deputy Assistant Secretary

*EXH BFW  
KK RD*

Copies furnished to: Neil Aikenhead, II, P.E.  
- St. Johns County Public Health Unit

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on August 31, 1989 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

Neena Durillo 8/31/89  
Clerk Date



# Florida Department of Environmental Regulation

Northeast District • 3426 Bills Road • Jacksonville, Florida 32207 • 904-798-4200

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary  
Ernest Frey, Deputy Assistant Secretary

## PERMITTEE:

Mr. Greg Matovina, President  
Ponce de Leon Utilities  
1300 Gulf Life Drive  
Jacksonville, Florida 32207

I.D. Number: 3155P00510  
Permit/Cert Number: D055-167124  
Date of Issue: August 23, 1989  
Expiration Date: August 23, 1994  
County: St. Johns  
Lat/Long: 30°58'15"N/81°19'45"W  
Section/Township/Range: 19&20/6S/30E  
Project: Ponce de Leon STP

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, and 17-6. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the operation of a 0.40 mgd extended aeration sewage treatment plant with chlorinated effluent discharge to percolation/evaporation ponds consisting of four cells and no discharge to surface water. The sewage treatment plant will serve 333 single family homes and 667 condominiums with a total population of approximately 4,000.

Located on Highway 1A, South Ponte Vedra, St. Johns County, Florida.

In accordance with application received July 7, 1989.

PERMITTEE:

Ponce de Leon STP

I.D. Number: 3155P00510

Permit Number: D055-167124

Date of Issue: August 23, 1989

Expiration Date: August 23, 1994

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants, or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:



PERMITTEE:

Ponce de Leon STP

I.D. Number: 3155P00510

Permit Number: D055-167124

Date of Issue: August 23, 1989

Expiration Date: August 23, 1994

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

PERMITTEE:

Ponce de Leon STP

I.D. Number: 3155P00510  
Permit Number: D055-167124  
Date of Issue: August 23, 1989  
Expiration Date: August 23, 1994

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards
- ( ) (Section 401, PL 92-500)
- ( ) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

15. When requested by the department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:

Ponce de Leon STP

I.D. Number: 3155P00510

Permit Number: D055-167124

Date of Issue: August 23, 1989

Expiration Date: August 23, 1994

SPECIFIC CONDITIONS:

1. Waste sludge or other solid wastes shall not be discharged into surface waters either directly or indirectly. These shall be disposed of in a manner approved by DER.
2. The effluent from this source shall be adequately chlorinated at all times so as to meet the disinfection requirements of FAC Rule 17-6.060(1)(c).
3. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of Chapter 17-16, FAC. Sampling and monitoring of this facility will be in accordance with Chapter 17-19, FAC.
4. The discharge authorized by this permit shall be consistent at all times with the water quality standards set forth in Chapter 17-3, FAC.
5. No additional connections shall be made to this facility without prior approval of this agency.
6. The permit holder shall also comply with county, municipal, federal and other state regulations.
7. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operations report on the operation of the pollution control plant. Such report shall also contain information on the daily quantities of waste sludge generated at the source, type and degree of its treatment and the site of its ultimate disposal. Reports shall be submitted on a monthly basis to the Department of Environmental Regulation, Northeast District Office, 3426 Bills Road, Jacksonville, Florida 32207.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the department in accordance with FAC Rule 17-6.150(2).
9. Waste sludge disposal shall be in accordance with Part IV of Chapter 17-7, FAC. Sludge which has not been analyzed pursuant to FAC Rule 17-7.54(2) shall be disposed of at permitted or exempted solid waste disposal sites pursuant to FAC Rule 17-7.03(2), or as otherwise provided in FAC Rule 17-7.54(6).
10. A log book shall be maintained as a record of the operation and maintenance activities as well as attendance and shall be submitted to the department upon request.
11. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.

FERMITTEE:

Ponce de Leon STP

I.D. Number: 3155P00510  
Permit Number: D055-167124  
Date of Issue: August 23, 1989  
Expiration Date: August 23, 1994

- 12. Percolation ponds shall be provided with an emergency discharge device to prevent water levels from rising closer than one foot from the top of the embankment or berm. The overflow device shall have sufficient capacity to discharge potential excess flows.
- 13. Pursuant to the Ground Water Monitoring Plan submittal as required by FAC Rule 17-28.700(6), Permittee shall continue to provide information to develop an approved monitoring program for Phase I of the project as follows:
  - a. Permittee shall submit a post-construction water table contour map and a proposal for monitoring well and surface sampling locations, located on a copy of the Master Drainage Plan, thirty days following the achievement of 50% of the rated capacity of Phase I.
  - b. Permittee shall submit a Site Specific Quality Assurance Project Plan for sampling and analytical activities at the time of submittal of the proposed monitor well and surface sampling locations.
  - c. Permittee shall respond to all Department requests for information on the items described in 13.a. and b. above, within the time frame established in the request letter.
  - d. All ground and surface water sampling locations shall be approved by Department prior to the installation of wells and the initiation of sampling. Permittee shall install wells and initiate sampling within the time frame established in Department's approval letter.
  - e. If 50% of the rated capacity of Phase I is not achieved within the time frame of this operation permit, then Specific Condition No. 13 of this permit shall be specifically incorporated into the next operation permit for the facility.
- 14. The sludge shall be sampled after final treatment in accordance with Rule 17-7.540(2)(e), FAC, but prior to utilization or disposal for the parameters listed below every six (6) months. A copy of the analyses shall be submitted with the monthly operation report for the following parameters:

Total Nitrogen	-	%	dry weight
Total Phosphorus	-	%	dry weight
Total Potassium	-	%	dry weight
Total Solids	-	%	dry weight
Cadmium	-	mg/kg	dry weight
Copper	-	mg/kg	dry weight
Lead	-	mg/kg	dry weight
Nickel	-	mg/kg	dry weight
Zinc	-	mg/kg	dry weight
pH	-		standard units

PERMITTEE:

Ponce de Leon STP

I.D. Number: 3155P00510

Permit Number: D055-167124

Date of Issue: August 23, 1989

Expiration Date: August 23, 1994

15. The monitoring requirements and effluent limitations for this plant are as follows:

PARAMETER	ANNUAL AVERAGE	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
Flow (mgd)	0.40	Daily, 5/week	See A	Influent or Effluent
*BOD <sub>5</sub> (mg/l)	20	Every Two Weeks	8-hour Composite	Influent and Effluent
*TSS (mg/l)	20	Every Two Weeks	8-hour Composite	Influent and Effluent
NO <sub>3</sub> -N (mg/l)	12	Every Two Weeks	8-hour Composite	Effluent
pH Units	6.0 - 8.5	Daily, 5/week	Grab	Effluent
Chlorine Residual (mg/l)	0.5 Minimum 1.0 Maximum	Daily, 5/week	Grab	Effluent
Fecal Coliform no./100 (ml)	200	Quarterly	Grab	Effluent

\* or 90% removal, whichever is more stringent.

	ANNUAL	MONTHLY	WEEKLY	ONE TIME MAXIMUM
BOD <sub>5</sub>	20	30**	45**	60**
TSS	20	30**	45**	60**

\*\* Rule 17-6.180

A. Recording flowmeter and totalizer required.

16. Prior to sixty (60) days before the expiration of this permit, the permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, Section 17-4.09, FAC.
17. According to FAC Chapter 17-16, this is a Class C, Level III treatment process that requires the services of a certified operator (Class C or higher) three (3) hours a day for five (5) days per week and one weekend visit.

*EFW*  
*20/11*  
Issued this 23rd day of August 1989

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

*Ernest E. Frey*  
Ernest E. Frey  
Deputy Assistant Secretary



**JACKSONVILLE SUBURBAN UTILITIES CORPORATION**  
A SUBSIDIARY OF GENERAL WATERWORKS ATLANTIC REGION

644 CESERY BOULEVARD, SUITE 108, P. O. BOX 8004, JACKSONVILLE, FLORIDA 32239, (904) 725-2865

November 2, 1992

Mr. Jeff Martin, P.E.  
FL Dept. of Environmental Regulation  
Northeast District  
Baymeadows Way, Suite B200  
Jacksonville FL 32256-7577

RE: Ponce de Leon WWTP  
Permit #DO55-167124

Dear Mr. Martin:

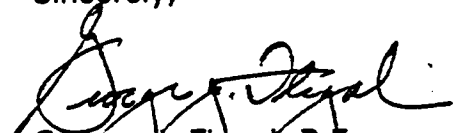
This letter follows our phone conversation of October 29, 1992 and makes reference to my letter to Mr. Watkins dated October 8, 1992 and Mr. Shayan's letter to me dated October 22, 1992.

Pursuant to our discussion, we agree that the appropriate way to handle our request for reduced staffing requirements would be to re-permit the facility to 100,000 gpd in the extended aeration mode of operation. The corresponding staffing requirement would be 1/2 hour per day 5 days per week and one weekend visit. Once average flows reach this new permitted capacity, the plant's permitted capacity would revert to the original design capacity of 400,000 gpd and the current staffing requirement would be reimposed.

Enclosed is a check for \$800.00 to process this application.

Should you have any questions, please call me at 721-4610.

Sincerely,



George J. Flegal, P.E.  
Area Engineer

GJF/jc  
Enclosure

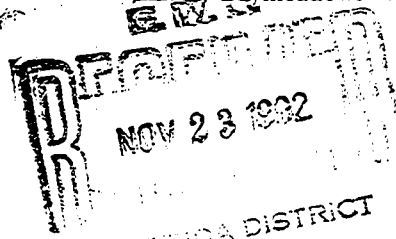


# Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary



November 19, 1992

Mr. George J. Flegal, P.E.  
Area Engineer  
Jacksonville Suburban Utilities Corporation  
Post Office Box 8004  
Jacksonville, Florida 32239

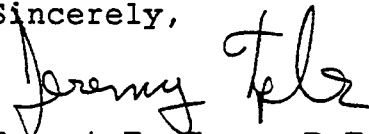
Dear Mr. Flegal:

St. Johns County - Domestic Waste  
Ponce de Leon WWTP  
Permit Number DO55-167124

This office has reviewed your letter dated November 2, 1992, a request for reduced staffing requirements for the above-referenced operation permit and accepts your request. This acceptance is in accordance with the FAC Rule 17-602.375 and 17-699. This letter shall be attached to your permit and become a permanent part of that permit.

Should you have any questions, please contact Reza Shayan of this office at (904) 448-4330, extension 311.

Sincerely,

  
Ernest E. Frey, P.E.  
Director of District Management

gpw  
RS

EEF:RS/jf



# Department of Environmental Protection

Lawton Chiles  
Governor

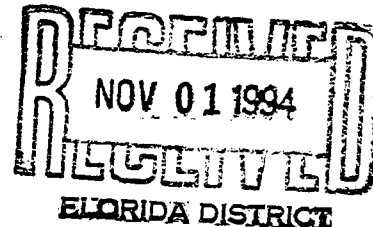
Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

CERTIFIED-RETURN RECEIPT  
October 25, 1994

Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225



Dear Mr. Heil:

St. Johns County - Domestic Waste  
Ponce de Leon WWTP

Enclosed is Permit Number D055-253570 to operate the subject sewage treatment facility, issued pursuant to Section(s) 403.087, Florida Statutes (F.S.).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.



Ponce de Leon WWTP  
Page Two  
Permit No. DO55-253570

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, FAC.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, FAC. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,

*Ernest E. Frey*  
Ernest E. Frey, P.E.  
Director of District Management

EFW  
RS

EEF:RS/jf  
Attachment

cc: Steve Manis, P.E.  
St. Johns County Public Health Unit

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on October 31, 1994 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date pursuant to § 120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*Judy S. Brown* 10/31/94  
Clerk Date



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Mr. Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.  
1400 Millcoe Road  
Jacksonville, Florida 32225

I.D. Number: 3155P00510  
Permit/Cert Number: DO55-253570  
Date of Issue: October 25, 1994  
Expiration Date: August 23, 1999  
County: St. Johns  
Lat/Long: 29°58'15"N.81°18'40"W  
Section/Township/Range: 20/6S/30E  
Project: Ponce de Leon WWTP

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-301, 62-302, 62-4, 62-600, 62-601, 62-610, 62-640, 62-699, 62-7 and 61E12. The above named Permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To operate a 0.095 MGD (annual average) extended aeration wastewater treatment plant with chlorinated reclaimed water disposal to two (2) on-site percolation/evaporation ponds. The design capacity of the wastewater treatment plant is 0.400 MGD. However, the permitted capacity of the plant has been derated to 0.095 due to low flow to the plant. The permitted capacity of the plant may be changed when the flow will increase.

Located on Highway A-1-A, 3152 South Ponte Vedra Boulevard, Goodwin Beach, St. Johns County, Florida.

In accordance with application received June 30, 1994 and additional information received through October 20, 1994.

**PERMITTEE:**

Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
Permit Number: DO55-253570  
Date of Issue: October 25, 1994  
Expiration Date: August 23, 1999

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

**PERMITTEE:**

Mr. Philip Heil  
Ponce de Leon WWTP

**I.D. Number:** 3155P00510  
**Permit Number:** D055-253570  
**Date of Issue:** October 25, 1994  
**Expiration Date:** August 23, 1999

- a. Have access to and copy any records that must be kept under conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to educe, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

PERMITTEE:

Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
Permit Number: DO55-253570  
Date of Issue: October 25, 1994  
Expiration Date: August 23, 1999

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used;
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE:

Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
Permit Number: D055-253570  
Date of Issue: October 25, 1994  
Expiration Date: August 23, 1999

SPECIFIC CONDITIONS:

1. Waste residuals or other solid wastes shall not be discharged into surface waters either directly or indirectly. These shall be disposed of in a manner approved by the Department.
2. The reclaimed water from this source shall be adequately chlorinated at all times so as to meet the basic disinfection requirements of Rule 62-600.440 (4), FAC.
3. The personnel in charge of the operation, supervision, or maintenance of the treatment facilities shall meet the requirements of Chapter 62-699, FAC and 61E12. Sampling and monitoring of this facility will be in accordance with Chapter 62-601, FAC.
4. No additional connections shall be made to this facility without prior approval of this agency.
5. The permit holder shall also comply with county, municipal, federal and other state regulations.
6. During the period of operation allowed by this permit, the Permittee shall complete and submit on a monthly basis the monthly operation report [DER Form No. 62-601.900(1)] so as to be received by the Department by the twenty-eighth (28th) day of the month following the month of operation. The test site identification number for this facility to be entered under Part II, item (10) of each report is 3155X12539. Reports shall be submitted on a monthly basis to the Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.
7. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with Rule 62-600.720, FAC.
8. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
9. According to Chapter 62-699, FAC, this is a Class C, Level III treatment process that requires the services of a certified operator (Class C or higher) 1/2 hour a day for 5 days per week and a weekend visit.
10. The Domestic wastewater residuals generated by the facility which meet Class C Stabilization Standards and the chemical criteria of Rule 62-640.700(3), FAC shall be disposed of at the Frenz Beaver Street Sludge Farm land application site in accordance with the provisions of Chapter 62-640 FAC and the Agricultural Use Plan for the site received October 12, 1994 and hereby incorporated as part of this permit. The residuals shall be sampled for the parameters listed below every twelve months in accordance with Rule 62-640.700(1)(e) and (f) FAC. Residuals samples shall be collected after final treatment but prior to utilization or disposal. A copy of the analyses shall be submitted with the monthly operation report for the following parameters:

PERMITTEE:

Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
Permit Number: DO55-253570  
Date of Issue: October 25, 1994  
Expiration Date: August 23, 1999

10.	Total Nitrogen	-	%	dry weight
	Total Phosphorus	-	%	dry weight
	Total Potassium	-	%	dry weight
	Total Solids	-	%	dry weight
	Cadmium	-	mg/kg	- dry weight
	Copper	-	mg/kg	- dry weight
	Lead	-	mg/kg	- dry weight
	Nickel	-	mg/kg	- dry weight
	Zinc	-	mg/kg	- dry weight
	pH	-		standard units

11. The Permittee shall notify the Department by letter of any modifications or expansions of the approved land application residual site in accordance with the requirements of Rule 62-640.300(2) FAC. Expansions include additional site locations for the Permittee's residuals.
12. Pursuant to Rule 62-640.500(1)(f) FAC, the Agricultural Use Plan shall be updated and submitted to the Department annually beginning one year from the date of operation permit issuance. The pH of the residuals soil mixture and a summary of the total domestic wastewater residuals, nitrogen, and heavy metals applied on an annual basis shall be submitted with the annual update to the Agricultural Use Plan.
13. In order to conform with USEPA 40 CFR 503 Sludge Regulations, it is anticipated that proposed revisions of Chapter 62-640 FAC will require Class A or Class B stabilization prior to land application of residuals from all domestic wastewater treatment plants. Should this rule revision become effective, Class A or Class B Stabilization shall be required and demonstrated in subsequent Agricultural Use Plan Updates. A construction permit will be required for any modification of residuals handling equipment necessary to effect Class A or Class B Stabilization.
14. Pursuant to Rule 62-640.700(3)(p) FAC, records of the domestic wastewater residuals application areas and application rates shall be maintained by the wastewater treatment facility permittee and must be available for inspection upon request by the Department, or the appropriate Local Environmental Program. Records shall be kept on an appropriate Department form or by an approved method which provides equivalent detail. These records shall include:
  - a. Date of application of the domestic wastewater residuals,
  - b. Location of the residuals application site,
  - c. Amount of domestic wastewater residuals applied or delivered,
  - d. Identification of specific areas of the site where domestic wastewater residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the domestic wastewater residuals, % solids, and date of last analysis.
15. All applications to renew operation permits shall include a detailed operation and maintenance performance report as described in Rule 62-600.735 FAC.

PERMITTEE:

Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
Permit Number: DO55-253570  
Date of Issue: October 25, 1994  
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16. The Permittee shall provide for the timely planning, design and construction of wastewater facilities necessary to provide proper treatment and reuse of domestic wastewater and management of domestic wastewater residuals. When the three-month average daily flow for the most recent three consecutive months exceeds 50 percent of the permitted capacity of the treatment facility, the Permittee shall submit to the Department a capacity analysis report pursuant to Rule 62-600.405 FAC.
17. In accordance with Chapter 62-601 FAC, the monitoring requirements and reclaimed water limitations for this plant are as follows:

PARAMETER	RECLAIMED WATER LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
Flow (mgd)	0.095 (b)	Daily, 5/week	Elapsed Time Measurement	Influent or Reclaimed Water
CBOD <sub>5</sub> (mg/L)	(a)	Monthly	Grab	Influent (c) & Reclaim. Water(d)
TSS (mg/L)	(a)	Monthly	Grab	Influent (c) & Reclaim. Water(d)
NO <sub>3</sub> -N (mg/L)	(a)	Monthly	Grab	Reclaimed Water (d)
pH Units	6.0 - 8.5	Daily, 5/week	Grab	Reclaimed Water (d)
Chlorine Residual(mg/L)	0.5 Minimum (e)	Daily, 5/week (g)	Grab	Reclaimed Water (d)
Fecal Coliform no./100 (mL)	200 (f)	Monthly	Grab	Reclaimed Water (d)

(a)

	ANNUAL	MONTHLY	WEEKLY	ONE TIME MAXIMUM
CBOD <sub>5</sub>	20*	30*	45*	60*
TSS	20*	30*	45*	60*
NO <sub>3</sub> -N	12**	12**	12**	12**

\* Rule 62-600.740, FAC

\*\* Rule 62-610.510, FAC

- (b) Annual average daily flow shall not exceed value shown.
- (c) Influent samples shall be collected so that they do not contain digester supernatant or returned activated sludge, or any other plant process waters.
- (d) Reclaimed water samples shall be collected after final treatment and immediately before discharge to the percolation/evaporation ponds.
- (e) The total residual chlorine content of the reclaimed water at the exit of the chlorine contact chamber shall at all times not be less than 0.5 mg/L.
- (f) The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL. Any one sample shall not exceed 800 fecal coliform values per 100 mL.
- (g) The minimum schedule for sampling and testing at the exit of the chlorine contact chamber is daily, 5 days per week.



PERMITTEE:

Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
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- 18. Pursuant to Rule 61E12-41.010(e), a bound operation and maintenance log shall be maintained in a location accessible for 24-hour inspection and current to the last operation and maintenance performed. The log at a minimum shall include identification of the plant; the signature and certification number of the operator; date and time in and out; specific operation and maintenance performed; tests performed and samples taken and major repairs made.
- 19. The Permittee is responsible for submitting a reuse feasibility study (if required pursuant to Section 403.064 FS) together with the application for permit renewal.
- 20. The Permittee shall, prior to 60 days before the expiration of this permit, apply for an operation permit on forms and in a manner prescribed by the Department, Section 62-4.09, FAC. It is recommended that the wastewater treatment plant and disposal system be evaluated prior to the submittal of an operation permit application so it can be established that there are no violations of current Department regulations. If there is noncompliance, the Department should be contacted as to the appropriate type of permit to obtain.
- 21. Field testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Each reclaimed water parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE	RECOMMENDED MDL	TARGETS PQL	EPA METHOD
Cadmium	3.0	10.0	200.7
Copper	6.0	25.0	200.7
Lead	1.0	2.0	239.2
Nickel	15.0	10.0	200.7
Zinc	2.0	5.0	200.7 or
	5.0	5.0	289.1
Total chlorine			
Residual	10.0	10.0	330.1 or
	200.0	200.0	330.5
Nitrate	100.0	100.0	352.1

Units are microgram per liter  
Equivalent methods are subject to approval by the Department.

- 22. The Permittee shall provide regular cleaning of the percolation cells including scarification and vegetation removal as necessary to ensure the continued effective operation of the cells. Hydraulic loadings periods of 1-7 days with resting period of 5-14 days to dry the pond bottoms and enable scarification or removal of deposited solids are required. A minimum freeboard of 3 feet shall be provided at all times and in no case shall the freeboard be less than 1 foot from the top of the berm. The Permittee shall provide a plan of corrective action to the Department in the event the freeboard in the pond becomes less than 3 feet from the top of berm or the hydraulic loading/resting period no longer provides for the drying of pond bottoms to enable scarification or removal of deposited solids.

PERMITTEE:

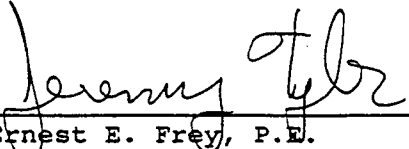
Mr. Philip Heil  
Ponce de Leon WWTP

I.D. Number: 3155P00510  
Permit Number: D055-253570  
Date of Issue: October 25, 1994  
Expiration Date: August 23, 1999

- 23. Appropriate warning signs shall be posted around the site boundaries to designate the nature of the project area.
- 24. Percolation ponds and/or storage ponds shall be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons (Rule 62-610.518 FAC).

*BPW  
RS*

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*for*   
 Ernest E. Frey, P.E.  
 Director of District Management

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

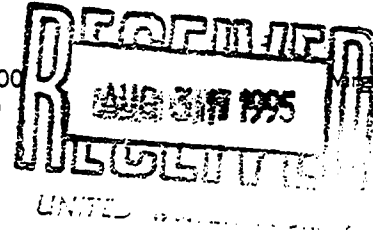
*Judy A. Howard* *10/31/94*  
 Clerk Date



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590



Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL  
August 29, 1995

In the Matter of an Application  
for Permit by:

DEP File No. 275127

Mr. Phillip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
644 Cesery Boulevard, Suite 108  
Jacksonville, FL 32211

Dear Mr. Heil:

Duval County- Domestic Waste  
Ponte Vedra WWTP

Enclosed is a revision to Permit Number DO55-185100 to modify approved residuals land application sites issued pursuant to Section(s) 403.087, Florida Statutes. All other portions of this permit remain in effect and are fully enforceable.

Specific Conditions 9 and 13 are hereby modified, to reflect the addition of agricultural sites to be used for land application of residuals from the plant, as follows:

9. The basic residuals management requirements and the agricultural site requirements for this facility are as follows:

***Basic Management Requirements***

- a. The method of residuals use or disposal by this facility is land application.
- b. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
- c. The domestic wastewater residuals for this facility are classified as stabilization Class B.

- d.. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
- e. The permittee shall sample and analyze the residuals at least once every three months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

A copy of the analyses shall be submitted with the discharge monitoring report.

[62-640.700(1)(a), (b), (e), and (f); (2); 3(e); and (4)(f) and 62-640.500(1)(d), 3-1-91]

- f. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]
- g. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by

the Department or the appropriate Local Environmental Program. These records shall include:

- 1) Date of application of the residuals,
- 2) Location of the residuals application site,
- 3) Amount of residuals applied or delivered,
- 4) Identification of specific areas of the site where residuals were applied and acreage of that area,
- 5) Method of incorporation of residuals (if any),
- 6) Water table level at time of application, and
- 7) Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide annual updates to the Agricultural Use Plan as required by Specific Permit Condition 13. Land application sites which have high water tables (not allowing for two feet of unsaturated soil depth) must monitor and record the water table depth prior to each application of domestic wastewater residuals.

The Department reserves the right to prohibit land application of domestic wastewater residuals if a test analysis (as required by Permit Specific Condition 9.e.), an updated agricultural use plan, or an inspection of the land application site do not provide reasonable assurance of compliance with Chapter 62-640, FAC.

*[62-640.700(3)(e) and (p), 3-1-91]*

#### *Agricultural Sites*

- a. Class B residuals shall not be used on unrestricted access areas. *[62-640.600(6)(b), 3-1-91]*
- b. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. *[62-640.300(1), 3-1-91]*
- c. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. *[62-640.600(6)(c), 3-1-91]*
- d. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. *[62-640.600(6)(d), 3-1-91]*
- e. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. *[62-640.600(6)(e), 3-1-91]*
- f. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. *[62-640.600(6)(f), 3-1-91]*

- g. The wastewater treatment facility permittee shall notify the Department's Northeast District Office by letter of any modifications or expansions of the approved residuals land application sites. The notice shall be submitted prior to such expansion or modification. Expansions include additional site locations for the permittee's residuals. The letter shall include a site location map and shall state how the modified or expanded residuals land application site will be operated in accordance with all requirements of Chapter 62-640, F.A.C. New or revised Agricultural Use Plans shall be submitted to the Department's Northeast District with the annual updates required by Rule 62-640.500(1)(f), F.A.C. In accordance with the current Agricultural Use Plans, the department allows residuals landspreading on 263 acres of the Higgenbotham site located in Duval County, Florida, and/or 150 acres of the Kennedy site located in Duval County, Florida. [62-640.300(2), 3-1-91]
  - h. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
  - i. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
  - j. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
  - k. All setbacks distances must be adhered to and must be identifiable to the applier and/or inspector. [62-640.700(3)]
13. The agricultural use plans identifying the Higgenbotham (as per agricultural use plan received July 12, 1995), and Kennedy (as per agricultural use plan received July 12, 1995) sites are hereby incorporated as a part of this permit. Updates to the Agricultural Use Plan and annual summaries, including copies of the wastewater residuals analysis for that period, shall be submitted, using DER -or- DEP Form 62-640.900(1), to the Department's Northeast District Office by July 1 of each year. The permittee shall provide annual updates to the Agricultural Use Plans; including the following:
- a. A summary of the total domestic wastewater residuals, nitrogen, and heavy metals applied on an annual basis for each specific area of application within the total application area.
  - b. The heavy metals and nitrogen application rates and the cumulative totals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWTP) for disposal of domestic wastewater residuals for each specific area of application within the total application area.
  - c. The pH of the residuals/soils mixture for the land application site.
  - d. The above specified information shall be current to within forty-five (45) days of the date of submittal.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

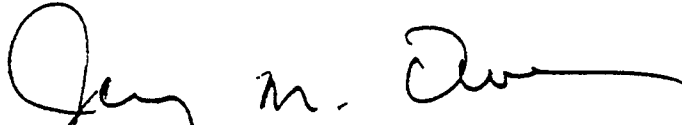
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Jerry M. Owen, P.E.  
Water Facilities Administrator

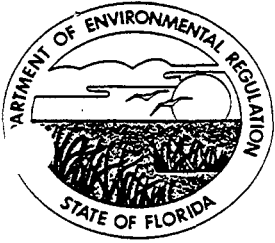
JMO:<sup>AP</sup>DJB/DB/mkw

cc: Stephen Manis, P.E. (Jax Suburban)  
Tom Griffis (Jax Suburban)  
Erick Olsen (Sludge Management)

PONTEVED.REV

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to S120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.  
M.K. Waters 8/29/05  
Clerk Date





# Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

## NOTICE OF PERMIT MODIFICATION

CERTIFIED-RETURN RECEIPT

November 4, 1992

Mr. E. S. Henderson, Jr. General Manager  
 Ponte Vedra Utilities, Inc.  
 9540 San Jose Boulevard  
 Post Office Box 2367  
 Jacksonville, Florida 32241-3627

Dear Mr. Henderson:

St. Johns Count County - Domestic Waste  
 Ponte Vedra WWTP  
Modification to Permit D055-185100

Enclosed is the modified Specific Condition No. 12 on Page 6 of Permit Number D055-185100 concerning the dechlorination monitoring requirement for the above-referenced facility and issued pursuant to Section(s) 403.087, Florida Statutes (F.S.). Also, with this permit modification, the permittee has met the requirement of Specific Condition No. 15 of the permit. All remaining permit conditions and requirements remain in effect and fully enforceable. Please attach this modification letter to your permit as it becomes a permanent part thereof.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

Administration 448-4300  
 Air 448-4310  
 Waste Management 448-4320



Water Facilities 448-4330  
 Water Management 448-4340  
 FAX 448-4366

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, FAC.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, FAC. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,



Ernest E. Frey, P.E.  
Director of District Management

*JM*  
EEF:KK/jf  
Attachment

Copies furnished to: George J. Flegal, P.E.  
St. Johns County Public Health Unit  
Peter McGarry

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on November 5, 1992 to the listed persons.

**FILING AND ACKNOWLEDGEMENT**

FILED, on this date, pursuant to S120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Judy H. Bramoon* 11/5/92  
Clerk Date

PERMITTEE:

Mr. E. S. Henderson, Jr.  
 Ponte Vedra Utilities, Inc.  
 Ponte Vedra STP

I.D. Number: 3155P05998  
 Permit Number: D055-185100  
 Date of Issue: October 25, 1990  
 Expiration Date: October 25, 1995  
 Modified: November 4, 1992

12. The monitoring requirements and effluent limitations for this plant are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
Flow (mgd)	0.500	Daily, 5/week	Flow Meter	Influent or Effluent
*CBOD <sub>5</sub>	20	1/Week	8-Hour Composite	Influent & Effluent
*TSS	20	1/Week	8-Hour Composite	Influent & Effluent
NO <sub>3</sub> -N	12	1/Week	8-Hour Composite	Effluent
pH Units	6.0 - 8.5	Daily, 5/week	Grab	Effluent
Total Chlorine Residual-Disinfect. (mg/l)	0.5 Minimum	Daily, 5/week	Grab	Effluent (a)
Total Chlorine Residual-Dechlor. (mg/l)	0.01 Maximum	Weekly	Grab	Pond Effluent (b)
Fecal Coliform no./100 (ml)	200	Monthly	Grab	Effluent

\* or 90% removal, whichever is more stringent.

	ANNUAL	MONTHLY	WEEKLY	ONE TIME MAXIMUM
CBOD <sub>5</sub>	20	30**	45**	60**
TSS	20	30**	45**	60**

\*\* Rule 17-600.740, FAC

- (a) The total residual chlorine content of the effluent (measured for disinfection effectiveness) shall be sampled at the exit of the chlorine contact chamber.
- (b) The total residual chlorine content of the effluent (measured for dechlorination effectiveness) shall be sampled at the pump station that transfers effluent from holding pond #2 to the percolation ponds (see the attached Exhibit 1).

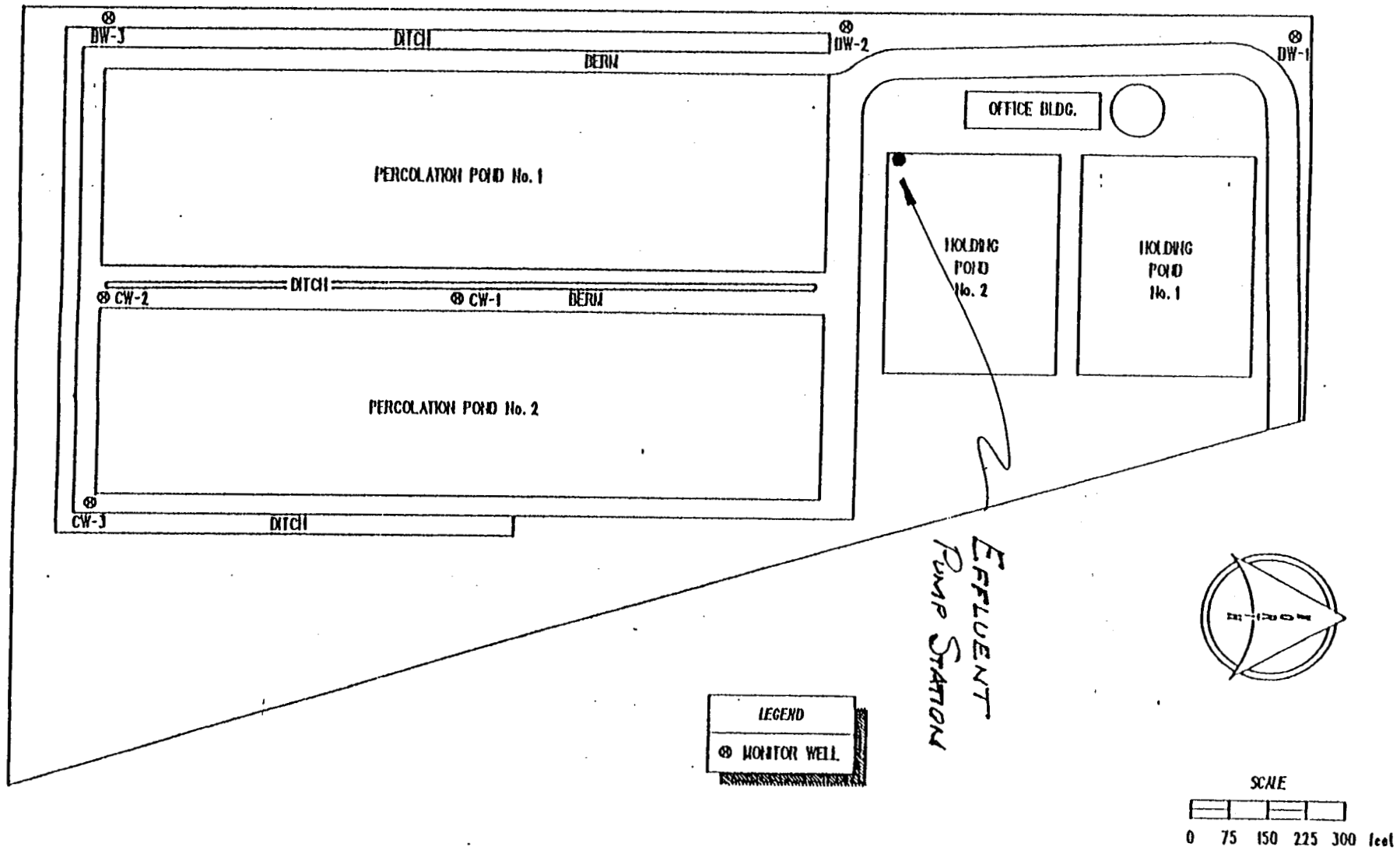


Figure 1. Sampling Point Locations



**GWL, INC.**  
 ENVIRONMENTAL CONSULTANTS  
 8021 PHILLIPS HWY., SUITE 12  
 JACKSONVILLE, FLORIDA 32256



# Department of Environmental Protection

cc: GRIMES / GRIFIS

cc Scott DonH.

file DEP permit

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL - RETURN RECEIPT

February 13, 1997

Mr. Munipalli Sambamurthi, Vice President, Manager  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

RECEIVED

FEB 18 1997

UNITED WATER FLORIDA

St. John's County -- Domestic Wastewater  
Ponte Vedra WWTP

Enclosed is a revision to Permit Number FL0117951 to operate an existing 0.5 MGD activated sludge WWTP and to construct and operate a proposed 0.6 MGD advanced WWTP with high level disinfection with effluent disposal to the Ponte Vedra Lake System issued under section(s) 403.087 of the Florida Statutes.

The revision includes a modification of the Discharge Monitoring Report (DMR) and certain pages of the permit. The modified DMR will replace the form issued with the permit on November 12, 1996. The pages of the permit are being modified to reflect changes in Department computer codes. There are no changes to effluent limits or monitoring requirements. Attach the modified pages to the permit as they become a part thereof. All other portions of the permit remain in effect and are fully enforceable.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located

Protect, Conserve and Manage Florida's Environment and Natural Resources

Mr. Munipalli Sambamurthi, Vice President, Manager  
Ponte Vedra WWTP  
page two

(b) a statement of how and when each petitioner received notice of the Department's action;

(c) a statement of how each petitioner's substantial interests are affected by the department's action;

(d) a statement of the material facts disputed by the petitioner, if any;

(e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;

(f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and

(g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

*aw*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*for* *Michael J. Fitzsimmons*  
Jerry M. Owen, P.E.  
Water Facilities Administrator

JMO/JR

cc: Darryl Joyner, FDEP, Tallahassee

#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on February 14, 1997 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to S120.52, Florida  
Statutes, with the designated Department Clerk,  
of which is hereby acknowledged.  
*James Smith* 2/14/97  
Clerk

## DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225

PERMIT NUMBER: FL0117951  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Interim  
 CLASS SIZE: Minor

To: \_\_\_\_\_  
 REPORT: Monthly  
 GROUP: Domestic

FACILITY: Ponte Vedra WWTP  
 LOCATION: 200 State Road A1A  
 Ponte Vedra Beach, FL 32082

FACILITY ID: FL0117951  
 GMS ID NO.: 3155P05998  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IIC

WAFR SITE NO.: 10525  
 GMS TEST SITE NO.: 3155X10696

COUNTY: St. Johns

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 50050 Mon. Site No. EFA-01	Permit Measurement	0.5 (An. Avg.)	mgd				5 Days/Week	Flow Me
Flow	Sample Measurement							
STORET No. 50050 Mon. Site No. EFA-01	Permit Measurement	Report (Mo. Avg.)	mgd				5 Days/Week	Flow Meters
CBOD5	Sample Measurement							
STORET No. 30082 Mon. Site No. EFA-01	Permit Measurement			20.0 (An. Avg.)	mg/L		Weekly	8-hour FPC
CBOD5	Sample Measurement							
STORET No. 30082 Mon. Site No. EFA-01	Permit Measurement			25.0 (Mo. Avg.)	60.0 (Max.)	mg/L	Weekly	8-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. EFA-01	Permit Measurement			20.0 (An. Avg.)	mg/L		Weekly	8-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. EFA-01	Permit Measurement			30.0 (Mo. Avg.)	60.0 (Max.)	mg/L	Weekly	8-hour
TRC for dechlorination	Sample Measurement							
STORET No. 50060 Mon. Site No. EFD-01	Permit Measurement				0.01 (Max.)	mg/L	Weekly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY-MM-DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Ponte Vedra WWTP

PERMIT NUMBER: FL0117951

DISCHARGE POINT NUMBER: D001

WAFR SITE No.: 10525

Parameter	Measurement	Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
TRC for disinfection	Sample Measurement							
STORET No. 80060 Mon. Site No. EFA-01	Permit Measurement			0.5 (Min.)			5 Days/Week	Grab
pH	Sample Measurement							
STORET No. 00406 Mon. Site No. EFD-01	Permit Measurement			6.0 (Min.)			5 Days/Week	Grab
Fecal Coliform Bacteria	Sample Measurement							
STORET No. 31615 Mon. Site No. EFA-01	Permit Measurement			200 (Ar. Avg.)	8.5 (Max.)		Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement							
STORET No. 31615 Mon. Site No. EFA-01	Permit Measurement			Report (Mo. Geo. Mean)	800 (Max.)		Weekly	Grab
TSS	Sample Measurement							
STORET No. 00530 Mon. Site No. INF-01	Permit Measurement			Report (Mo. Avg.)			Weekly	8-hour FFC
CBOD5	Sample Measurement							
STORET No. 80082 Mon. Site No. INF-01	Permit Measurement			Report (Mo. Avg.)			Weekly	8-hour FFC
NO3-Nitrogen, Total as N	Sample Measurement							
STORET No. 00620 Mon. Site No. EFA-01	Permit Measurement				12.0 (Max.)		Weekly	8-hour FFC
Ammonia, Total as N	Sample Measurement							
STORET No. 00610 Mon. Site No. EFD-01	Permit Measurement			1.0 (Ar. Avg.)			Weekly	Grab
Ammonia, Total as N	Sample Measurement							
STORET No. 00610 Mon. Site No. EFD-01	Permit Measurement			1.0 (Mo. Avg.)	2.0 (Max.)		Weekly	Grab
	Sample Measurement							
	Permit Measurement							
	Sample Measurement							
	Permit Measurement							



## DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225

PERMIT NUMBER: FL0117951  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Interim  
 CLASS SIZE: Minor

To: \_\_\_\_\_  
 REPORT: Quarterly  
 GROUP: Domestic

FACILITY: Ponte Vedra WWTP  
 LOCATION: 200 State Road A1A  
 Ponte Vedra Beach, FL 32082

FACILITY ID: FL0117951  
 GMS ID NO.: 3155P05998  
 DISCHARGE POINT NUMBER: D002  
 PLANT SIZE/TREATMENT TYPE: IIC

WAFR SITE NO.: 10525  
 GMS TEST SITE NO.: 3155X10696

COUNTY: St. Johns

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. 00600 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. 00605 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement							
STORET No. 00630 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
UNIONIZED AMMONIA AS N	Sample Measurement							
STORET No. 00612 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	calculation
PHOSPHOROUS, TOTAL AS P	Sample Measurement							
STORET No. 00665 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement							
STORET No. 70507 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
NITROGEN, TOTAL KJELDAHL	Sample Measurement							
STORET No. 00625 1 Mon. Site No. EPD-01	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
TEMPERATURE DEG C	Sample Measurement							
STORET No. 00010 1 Mon. Site No. EPD-01	Permit Measurement			Report (Sample Per. Avg.)	DEG C		Once/quarter	Instrument

**DAILY SAMPLE RESULTS - PART B**

Facility ID:  
Month/Year:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

**Plan Staffing:**

Day Shift Operator	Class _____	Certificate No. _____	Name: _____
Evening Shift Operator	Class _____	Certificate No. _____	Name: _____
Night Shift Operator	Class _____	Certificate No. _____	Name: _____
Lead Operator	Class _____	Certificate No. _____	Name: _____

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wed Weather Discharge Activated: Yes \_\_\_ No \_\_\_ Not Applicable \_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_

\*Attach additional sheets necessary to list all certified operators necessary for required operations.

**PERMITTEE:**  
 United Water Florida - Ponte Vedra WWTP  
 1400 Millcove Road  
 Jacksonville, FL 32225

**PERMIT NUMBER:** FL0117951  
**ISSUANCE DATE:** November 12, 1996  
**EXPIRATION DATE:** November 12, 2001  
**APPLICATION No.:** 276521

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Interim Surface Water Discharges**

1. During the period beginning on the issuance date and lasting until completion and start-up of the 0.6 MGD AWT WWTF, the permittee is authorized to discharge effluent from Outfall D001 to unnamed ditch leading to the Ponte Vedra Lake System at underdrain discharge D001. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Mfn	Effluent Limitations				Monitoring Requirements			
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.50				5 Days/Week	Recording flow meters and totalizers	EFA-01	See Cond.I.A.3
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	25.0	40.0	60.0	Weekly	8-hour flow proportioned composite	EFA-01	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	8-hour flow proportioned composite	EFA-01	
Fecal Coliform Bacteria	See Permit Condition I.A.4.						Weekly	Grab	EFA-01	
pH	std. units	Range				6.0 to 8.5	5 Days/Week	Grab	EFD-01	
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				0.5	5 Days/Week	Grab	EFA-01	See Cond.I.A.5
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Weekly	Grab	EFD-01	
Nutrient Monitoring	See Permit Condition I.A. 8.									
Lake Monitoring	See Permit Condition I.A.7.									
Ammonia, Total as N	mg/l. as N	Maximum	1.0	1.0	1.5	2.0	Weekly	Grab	EFD-01	
NO3-Nitrogen, Total as N	mg/l. as N	Maximum				12.0	Weekly	8-hour flow proportioned composite	EFA-01	

**PERMITTEE:**  
 United Water Florida - Ponte Vedra WWTP  
 1400 Millcoe Road  
 Jacksonville, FL 32225

**PERMIT NUMBER:** FL0117951  
**ISSUANCE DATE:** November 12, 1996  
**EXPIRATION DATE:** November 12, 2001  
**APPLICATION No.:** 276521

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-01	discharge from chlorine contact chamber to percolation ponds
EFD-01	discharge from eastern underdrain to perimeter ditch

3. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
4. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. [62-600.440(4)(c), 6-8-93]
5. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(4)(h), 6-8-93]
6. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. [62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]
7. The Permittee shall initiate regular monitoring of the Ponte Vedra Lake System for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis. The monitoring sites are as described in Appendix B of CH2M Hill's March 1996 Engineering Report entitled "Effluent Disposal for the Ponte Vedra Wastewater Treatment Facility" and as follows:

- GC-1 Bridge at intersection of Pablo Drive and Pablo Road.
- GC-2 Pond north of #10 tee on Lagoon Course.
- GC-3 Pond west of #7 tee on Lagoon Course.
- GC-4 Pond at 200 yd mark on #6 hole on Lagoon Course.
- GC-5 Bridge on Solano Road.

The parameters to be measured shall include the following:

- DO, pH, temperature, conductivity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, TP, Ortho-Phosphorus, Chlorophyll A, total coliforms and fecal coliforms.

**PERMITTEE:**  
 United Water Florida - Ponte Vedra WWTP  
 1400 Millcoe Road  
 Jacksonville, FL 32225

**PERMIT NUMBER:** FL0117951  
**ISSUANCE DATE:** November 12, 1996  
**EXPIRATION DATE:** November 12, 2001  
**APPLICATION No.:** 276521

**B. Final Surface Water Discharges**

1. During the period beginning upon completion and placing into service of the proposed 0.6 MGD WWTP and lasting through the expiration of this permit, the permittee is authorized to discharge effluent from Outfall D002 to the Ponte Vedra Lake System. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Flow	mgd	Maximum	0.6				5 Days/Week	Recording flow meters and totalizers	EFA-01	See Cond.1.B.3	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	5.0	5.0	7.5	10.0	Weekly	16-hour flow proportioned composite	EFD-01		
Total Suspended Solids	mg/L	Maximum				5.0	7 Days/Week	Grab	PPI-1		
Fecal Coliform Bacteria	See Permit Condition 1.B.4.						5 Days/Week	Grab	EFA-01		
pH	std. units	Range				6.0 to 8.5	5 Days/Week	Grab	EFD-01		
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				1.0	5 Days/Week	Grab	EFA-01	See Cond.1.B.5	
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Weekly	Grab	EFD-01		
Nitrogen, Total as N	mg/L as N	Maximum	3.0	3.0	4.5	6.0	Weekly	16-hour flow proportioned composite	EFD-01		
Nutrient Monitoring	See Permit Condition 1.A. 8.										
Lake Monitoring	See Permit Condition 1.A.7.										
Oxygen, Dissolved (DO)	mg/L	Minimum				5.0	5 Days/Week	Grab	EFD-01		

**PERMITTEE:**  
 United Water Florida - Ponte Vedra WWTP  
 1400 Millcoe Road  
 Jacksonville, FL 32225

**PERMIT NUMBER:** FL0117951  
**ISSUANCE DATE:** November 12, 1996  
**EXPIRATION DATE:** November 12, 2001  
**APPLICATION No.:** 276521

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. B.1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-01	immediately following disinfection contact chamber
PPI-1	prior to disinfection
EFD-01	immediately prior to discharge

3. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
4. Over a 30 day period, 75 percent of the fecal coliform values (the 75th percentile value) shall be below the detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 5.0 milligrams per liter of total suspended solids (TSS) at a point before application of the disinfectant. Note: To report the 75th percentile value, list the fecal coliform values obtained during that month in ascending order. Report the value of the sample that corresponds to the 75th percentile (multiply the number of samples by 0.75). For example, for 30 samples, report the corresponding fecal coliform value for the 23rd value of ascending order. [62-600.440(5)(f), 6-8-93]
5. A minimum of 1.0 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(5)(b) and (6)(b), 6-8-93]
6. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. [62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]
7. The Permittee shall continue regular monitoring of the Ponte Vedra Lake System for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis. The monitoring sites are as described in Appendix B of CH<sub>2</sub>M Hill's March 1996 Engineering Report entitled "Effluent Disposal for the Ponte Vedra Wastewater Treatment Facility" and as follows:

- GC-1 Bridge at intersection of Pablo Drive and Pablo Road.
- GC-2 Pond north of #10 tee on Lagoon Course.
- GC-3 Pond west of #7 tee on Lagoon Course.
- GC-4 Pond at 200 yd mark on #6 hole on Lagoon Course.
- GC-5 Bridge on Solano Road.

The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, TP, Ortho-Phosphorus, Chlorophyll A, total coliforms and fecal coliforms.

The metered parameters DO, temperature, conductivity shall be sampled at the surface, mid-depth and at the bottom. Grab samples at mid depth for the other parameters is adequate. The results of lake monitoring shall be submitted with the DMR. [62-4.240(3)(c), 4-30-95]



# Department of Environmental Protection

CO. T. G. F. H.  
3.11.95

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

September 7, 1995

Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, FL 32225

RECEIVED  
SEP 13 1995  
UNITED WATER FLORIDA

Dear Mr. Heil:

Duval County - Domestic Waste  
Royal Lakes WWTP

A Compliance Sampling Inspection (CSI), Toxicity Sampling Inspection (XSI), Compliance Biomonitoring Inspection (CBI), Water Quality Inspection (WQI), and Impact Biomonitoring Inspection (IBI) were performed at the Royal Lakes WWTP on July 24, 1995.

A final effluent sample and samples from specific reference sites (Site 1, Site 2, and St. John River) were collected and analyzed for nutrients, CBOD5, TSS, metals, organonitrogen-phosphorus pesticides, and base/neutrals and acids. In addition, a sample was taken for a biological assessment which has been performed by our Tallahassee laboratory. Copies of analyses results are enclosed for your records. Results for all other analyses will be provided to you once we receive them from our Tallahassee Lab.

## INSPECTION

Background: Our records indicate that your facility is currently under an Administrative Order with EPA for whole effluent toxicity (WET) violations. Under this AO, you are required to initiate a series of whole effluent toxicity test (monthly tests) which began in December '94. During the inspection, Mr. Craig Braddock informed me that your facility did pass all of the WET tests performed since December '94.

Records & Reports: The onsite log, records, and reports were satisfactory. However, the Operation and Maintenance Manual for the facility could not be located during the inspection.

Mr. Heil  
September 7, 1995  
Page 2

Flow Measurement: Flow is determined by a flow meter which is based on the effluent discharged from the facility. The flow meter is placed at the point where the two chlorine contact chambers (CCC) merge. The monthly average daily flow for June '95 was 2.521 MGD.

Operation & Maintenance: Overall, the facility appears to be operating satisfactorily. It was noted that clarifier(#2) did contain sludge pop-ups and traces of grease. In addition, it was also observed that old sludge was accumulating on the shelf in the clarifier. Please refer to the back page of the inspection report for further inspection comments.

#### **FILE REVIEW**

Effluent: A review of the MORs and the sample analyses results indicate that you are meeting the limits specified in your operating permit.

General Overview: The following problems need to be addressed.

1. In accordance to specific condition 8 of your operating permit D016-230626 and FAC Rule 62-600.720(2), an Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department.
2. In accordance to specific condition 11 of your operating permit, a sixteen hour flow-proportioned composite sample shall be taken to represent the final effluent discharged from your facility. It is my understanding that the composite sampler is set-up to only pull a sample from one specific CCC train. If this is an accurate assessment, it is concluded that you are not obtaining a representative final effluent sample. Hence, the composite sampler shall be relocated so that a representative sample is taken at the point where the two CCC merge prior to discharging into the River.
3. During the inspection, it was noted that the sludge pop-ups were clogging the clarifier weirs which resulted in an uneven distribution of flow over the weirs. To prevent solids from discharging over the weirs into the CCC, it is recommended that you clean the clarifier of sludge pop-ups and sludge accumulation in the shelf.



Mr. Heil  
September 7, 1995  
Page 3

A copy of the inspection form is enclosed for your records. A written response shall be submitted to the Department within 15 days of the receipt of this letter addressing the issues noted above. If you have any questions, I can be contacted at (904) 448-4330 extension 342.

Sincerely,

*Ha Nguyen*

Ha Nguyen  
Engineer

*HW*

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

WASTEWATER COMPLIANCE INSPECTION REPORT

FACILITY AND INSPECTION INFORMATION

@ = OPTIONAL

Name and Physical Location of Facility: Royal Lakes WWF, 8509 Western Way, Jacksonville  
 GMS ID: 3116P05360  
 County: Duval  
 Entry Date/Time: 7/24/95 - 9:50 AM  
 Phone: [blank]  
 Exit Time/Date: 7/24/95 - 12:43 PM

Name(s) of Field Representative(s): Craig Braddock, Kenty Fint  
 Title: [blank]  
 Phone: [blank]

Name and Address of Permittee or Designated Representative: Philip Heil, United Water Florida, 1400 Milcoe Rd, Jacksonville, FL 3225  
 Title: Vice President  
 Phone: [blank]  
 Operator: [blank]

Inspection Type:  Fix/II  
 Samples Taken (Y/N): Y  
 Sample ID#: [blank]  
 Samples SpR (Y/N): [blank]  
 Domestic  Industrial  
 Were Photos Taken (Y/N): N  
 Log Book Volume: III  
 Page: 102-106

In Compliance With Permit Conditions (Y/N): Y  
 Recommended Actions: [blank]

Name(s) and Signature(s) of Inspector(s): Ha Nguyen, Ruth Bowman + Jim McKeever  
 District Office/Phone Number: NEB 904 648-4330 x342  
 Date: 9-7-95  
 Signature of Reviewer: Kristen Smeltzer  
 District Office/Phone Number: X341  
 Date: [blank]

FACILITY COMPLIANCE AREAS EVALUATED

S=Satisfactory, M=Marginal, U=Unsatisfactory, Blank=Not Evaluated, See Comments

S	1. Permit	M	6. Sampling	S	11. Effluent
S	2. Compliance Schedules		7. Self-Monitoring Program		12. Groundwater
	3. Pretreatment	S	8. Facility Site Review		13. Disposal Method
M	4. Records & Reports	S	9. Flow Measurement		14. Residuals Management
S	5. Laboratory	S	10. Operation & Maintenance		15. Other

All Outfalls in this Section for All Surface Water Discharge Inspections (CEI, CSI, CBI, PAI, XSI, RI)

Transaction Code: 1 2 5 3 EL 0 0 2 6 7 5 1 11 12 9 5 0 7 2 4 17 18 S 19 S 20 2  
 NPDES Number: [blank]  
 YR/MO/DA: [blank]  
 Ins Type: GSI/XSI/CBI/WQI/BI  
 Inspector Code: [blank]  
 Facility Type: [blank]  
 Remarks: Fifth Year Inspection

Inspection Type (Field 18): A=PAI, B=CBI, C=CEI, S=CSI, X=XSI, R=RI  
 Inspector Code (Field 19): S=State, J=Joint EPA/State, EPA Lead, J=Joint State/EPA, State Lead, L=Local  
 Facility Type (Field 20): 1=Municipal (Publicly Owned), 2=Industrial and Privately Owned Domestic, 3=Agricultural, 4=Federal  
 Every other field is self-explanatory

Site 3116X2403

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NORTHEAST DISTRICT  
7825 BAYMEADOWS WAY, SUITE B-200  
JACKSONVILLE, FL 32256-7577

SAMPLE ID NO.: 950285 DATE: 1995/07/24  
SAMPLE SOURCE: ROYAL LAKES WWTP TIME: 1530  
STATION NUMBER: 20031856 SAMPLER: MCKELVEY/BOUMAN  
STATION LOCATION: EFFLUENT OUTFALL

Fixed monitoring: State: Special Project: Dredge & Fill:  
NPDES: Intensive Survey: Response Operation:  
Domestic Waste: X Other:

SAMPLE SUPPORTS Compliance: X Enforcement:

FIELD MEASUREMENTS

Total depth:	Sample depth :	Water temp. (oC):	30.5
pH : 7.21	Conductivity : 1108	Dissolved Oxygen:	12.76
Secchi :	Stream Velocity:	Salinity :	

WEATHER CONDITIONS : HOT, PTLY CLOUDY, HUMID(2 Hrs. AFTER HIGH TIDE)

LABORATORY MEASUREMENTS

PARAMETER	PARAMETER	
Turbidity (NTU) :	Color (PtCo)	:
Conductivity (uMHO):	pH (standard units)	:

The following values are in ppm.

COD :	CBOD	: 3
Oil & Grease :	T.D.S @ 180 C.	:
Dissolved Oxygen :	BOD	:
TOT SS : 3	TOT SOLIDS	:
VOL SS :	VOL TOT.SOLIDS	:
FIX SS :	FIX TOT.SOLIDS	:

TOTAL HARDNESS as CaCO3: T.D.S 180 o C:

TOTAL ALKALINITY: SETTLEABLE MATTER:

COMMENTS:

SAMPLE CUSTODY

SAMPLE RELEASED TO : BIPIN ADHYARU

DATE: 1995/07/25 TIME: 0730

PRESERVATION : ICE

REPORTED BY : BIPIN ADHYARU DATE: 1995/08/01

STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 NORTHEAST DISTRICT  
 7825 BAYMEADOWS WAY, SUITE B-200  
 JACKSONVILLE, FL 32256-7577

SAMPLE ID NO.: 950286 DATE: 1995/07/24  
 SAMPLE SOURCE: ROYAL LAKES WWTP TIME: 1245  
 STATION NUMBER: 20030540 SAMPLER: McKELVEY/BOUMAN  
 STATION LOCATION: TEST SITE #2 SOUTH OF POD  
 Fixed monitoring: State: Special Project: Dredge & Fill:  
 NPDES: Intensive Survey: Response Operation:  
 Domestic Waste: X Other:

SAMPLE SUPPORTS Compliance: X Enforcement:

FIELD MEASUREMENTS

Total depth: 2.0	Sample depth : 1.0	Water temp. (oC): 31.95
pH : 7.54	Conductivity : 1496	Dissolved Oxygen: 14.06
Secchi : 0.6	Stream Velocity:	Salinity : 0.74

WEATHER CONDITIONS : HOT, PTLY CLOUDY, HUMID(2 Hrs. AFTER HIGH TIDE)

LABORATORY MEASUREMENTS

PARAMETER	PARAMETER	:
Turbidity (NTU) :	Color (PtCo)	:
Conductivity (uMHO):	pH (standard units)	:

The following values are in ppm.

COD :	CBOD	: 3
Oil & Grease :	T.D.S @ 180 C.	:
Dissolved Oxygen :	BOD	:
TOT SS : 16	TOT SOLIDS	:
VOL SS :	VOL TOT.SOLIDS	:
FIX SS :	FIX TOT.SOLIDS	:

TOTAL HARDNESS as CaCO3: T.D.S 180 o C:

TOTAL ALKALINITY: SETTLEABLE MATTER:

COMMENTS:

SAMPLE CUSTODY

SAMPLE RELEASED TO : BIPIN ADHYARU

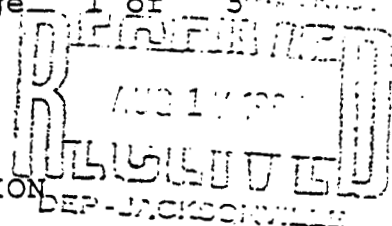
DATE: 1995/07/25

TIME: 0730

PRESERVATION : ICE

REPORTED BY : BIPIN ADHYARU

DATE: 1995/08/01



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

CHEMICAL ANALYSIS REPORT  
-----

Request ID: RQ-95-JUL-24-06                      CompQAP# 870688G  
Job ID: 95-JUL-25-18                              Project: CSI  
Job Name: ROYAL LAKES SUBDIVISION - Job created on 25-JUL  
Date Received: 25-JUL-1995                      Customer ID: NE-JAX-WTF  
Authorized: 15-AUG-1995                          By: Yuh-Hsu Pan

Submitted By: NE DIST. OFFICE - WATER FACILITIES DIV.  
7825 Baymeadows Way  
Suite B 200  
Jacksonville, Fl. 32256-7577

For Additional Information, Please Contact  
G. William Coppenger, Ph.D.  
Yuh-Hsu Pan, Ph.D.  
Timothy W. Fitzpatrick  
Liang-Tsair Lin, Ph.D.  
Suncom 277-2571  
(904) 487-2571

Certified By:                     *Hsu*                                          Date:                     8-15-95                    

Abbreviations & Storet Codes:

- A - Value reported is the mean of two or more determinations
- B - Results based on colony counts outside the acceptable range.
- I - Value reported is less than the minimum quantitation limit, and greater than or equal to the minimum detection limit.
- J - Estimated value
- K - Actual value is known to be less than value given
- L - Actual value is known to be greater than value given
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected; The value reported is the minimum detection limit.
- V - Analyte was detected in both sample and method blank.
- Z - Colonies were too numerous to count (TNTC).

111852/95-JUL-25-18-01/W-BNA

Continued from Page 2

Storet#	Analyte	Value	Units
34341	Dimethylphthalate	0.80 U	ug/L
34611	2,4-Dinitrotoluene	1.5 U	ug/L
34626	2,6-Dinitrotoluene	1.5 U	ug/L
34596	Di-n-octyl phthalate	0.80 U	ug/L
34361	Endosulfan I	12 U	ug/L
34356	Endosulfan II	12 U	ug/L
34351	Endosulfan sulfate	3.0 U	ug/L
39390	Endrin	6.0 U	ug/L
34366	Endrin aldehyde	6.0 U	ug/L
34376	Fluoranthene	0.80 U	ug/L
34381	Fluorene	0.80 U	ug/L
39410	Heptachlor	1.5 U	ug/L
39420	Heptachlor epoxide	1.5 U	ug/L
39700	Hexachlorobenzene	0.80 U	ug/L
34391	Hexachlorobutadiene	3.0 U	ug/L
34396	Hexachloroethane	3.0 U	ug/L
34386	Hexachlorocyclopentadiene	12 U	ug/L
34403	Indeno[1,2,3-cd]pyrene	1.5 U	ug/L
34408	Isophorone	0.80 U	ug/L
34696	Naphthalene	0.80 U	ug/L
34447	Nitrobenzene	0.80 U	ug/L
34438	N-Nitrosodimethylamine	1.5 U	ug/L
34428	N-Nitrosodi-n-propylamine	0.80 U	ug/L
34433	N-Nitrosodiphenylamine	0.80 U	ug/L
34671	PCB-1016	300 U	ug/L
39488	PCB-1221	300 U	ug/L
39492	PCB-1232	300 U	ug/L
39496	PCB-1242	300 U	ug/L
39500	PCB-1248	300 U	ug/L
39504	PCB-1254	300 U	ug/L
39508	PCB-1260	300 U	ug/L
34461	Phenanthrene	0.80 U	ug/L
34469	Pyrene	0.80 U	ug/L
39400	Toxaphene	500 U	ug/L
34551	1,2,4-Trichlorobenzene	0.80 U	ug/L
34462	4-Chloro-3-methylphenol	0.80 U	ug/L
34586	2-Chlorophenol	0.80 U	ug/L
34601	2,4-Dichlorophenol	0.80 U	ug/L
34606	2,4-Dimethylphenol	3.0 U	ug/L
34616	2,4-Dinitrophenol	6.0 U	ug/L
34657	2-Methyl-4,6-dinitrophenol	3.0 U	ug/L
34591	2-Nitrophenol	1.5 U	ug/L
34646	4-Nitrophenol	3.0 U	ug/L
39032	Pentachlorophenol	3.0 U	ug/L
34694	Phenol	0.80 U	ug/L
34621	2,4,6-Trichlorophenol	0.80 U	ug/L

111853/95-JUL-25-18-02/W-BNA

Continued from Page 4

Storet#	Analyte	Value	Units
34341	Dimethylphthalate	0.80 U	ug/L
34611	2,4-Dinitrotoluene	1.5 U	ug/L
34626	2,6-Dinitrotoluene	1.5 U	ug/L
34596	Di-n-octyl phthalate	0.80 U	ug/L
34361	Endosulfan I	12 U	ug/L
34356	Endosulfan II	12 U	ug/L
34351	Endosulfan sulfate	3.0 U	ug/L
39390	Endrin	6.0 U	ug/L
34366	Endrin aldehyde	6.0 U	ug/L
34376	Fluoranthene	0.80 U	ug/L
34381	Fluorene	0.80 U	ug/L
39410	Heptachlor	1.5 U	ug/L
39420	Heptachlor epoxide	1.5 U	ug/L
39700	Hexachlorobenzene	0.80 U	ug/L
34391	Hexachlorobutadiene	3.0 U	ug/L
34396	Hexachloroethane	3.0 U	ug/L
34386	Hexachlorocyclopentadiene	12 U	ug/L
34403	Indeno[1,2,3-cd]pyrene	1.5 U	ug/L
34408	Isophorone	0.80 U	ug/L
34696	Naphthalene	0.80 U	ug/L
34447	Nitrobenzene	0.80 U	ug/L
34438	N-Nitrosodimethylamine	1.5 U	ug/L
34428	N-Nitrosodi-n-propylamine	0.80 U	ug/L
34433	N-Nitrosodiphenylamine	0.80 U	ug/L
34671	PCB-1016	300 U	ug/L
39488	PCB-1221	300 U	ug/L
39492	PCB-1232	300 U	ug/L
39496	PCB-1242	300 U	ug/L
39500	PCB-1248	300 U	ug/L
39504	PCB-1254	300 U	ug/L
39508	PCB-1260	300 U	ug/L
34461	Phenanthrene	0.80 U	ug/L
34469	Pyrene	0.80 U	ug/L
39400	Toxaphene	500 U	ug/L
34551	1,2,4-Trichlorobenzene	0.80 U	ug/L
34462	4-Chloro-3-methylphenol	0.80 U	ug/L
34586	2-Chlorophenol	0.80 U	ug/L
34601	2,4-Dichlorophenol	0.80 U	ug/L
34606	2,4-Dimethylphenol	3.0 U	ug/L
34616	2,4-Dinitrophenol	6.0 U	ug/L
34657	2-Methyl-4,6-dinitrophenol	3.0 U	ug/L
34591	2-Nitrophenol	1.5 U	ug/L
34646	4-Nitrophenol	3.0 U	ug/L
39032	Pentachlorophenol	3.0 U	ug/L
34694	Phenol	0.80 U	ug/L
34621	2,4,6-Trichlorophenol	0.80 U	ug/L

\*\*\*\*\* END OF REPORT \*\*\*\*\*

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

CENTRAL LABORATORY SAMPLE SUBMITTAL FORM

PMAS NO.: 1143

Lab ID: 111852

Requestor: NE-JAX-WTF

Project ID: ROYAL LAKES SUBDIVISION

RO-95-JUL-24-06

Sample Location: Royal LAKES WWTP Collection Date: 7-24-95  
 Field ID/Name: Final Effluent Collection Time: \_\_\_\_\_  
 Stret Station Number: 28031856 Grab: 095  
 NPDES Number: \_\_\_\_\_ Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

WATER		BLANKS	SOIL/SEDIMENT	TISSUE	CHEMICAL WASTE
<input type="checkbox"/> SURFACE(FRESH)	<input type="checkbox"/> INFLUENT	<input type="checkbox"/> TRIP BLANK	<input type="checkbox"/> SOIL	<input type="checkbox"/> PLANT	
<input type="checkbox"/> SURFACE(SALT)	<input checked="" type="checkbox"/> EFFLUENT	<input type="checkbox"/> FIELD BLANK	<input type="checkbox"/> FRESHWATER SEDIMENT	<input type="checkbox"/> FISH	<input type="checkbox"/> CHEM WASTE
<input type="checkbox"/> GROUND		<input type="checkbox"/> EQUIPMENT BLANK	<input type="checkbox"/> MARINE SEDIMENT	<input type="checkbox"/> SHELLFISH	
<input type="checkbox"/> DRINKING			<input type="checkbox"/> SLUDGE	<input type="checkbox"/> OTHER	

Field Parameters Measured By: Ruth Brauman Signature: Ruth Brauman  
 Sampled By: Tim McElwey Signature: Tim McElwey  
 Field Report Prepared By: Ruth Brauman Signature: Ruth Brauman

Field Parameters:

Depth (Feet):	<u>7</u>
Chlorine, Total Residual - 50060 (mg/L):	<u>0</u>
Dissolved Oxygen(Probe) - 00299 (mg/L):	<u>0.76</u>
pH - 00400 (Std. Units):	<u>7.71</u>
Salinity - 00480 (PPTH):	<u>7</u>
Secchi Depth - 00078 (m):	<u>7</u>
Specific Conductance -00094 (umho/cm):	<u>1108</u>
Temperature - 00010 (C):	<u>30.50</u>

Analyses	Bottle Type	# Bottles	Preservatives
AG-G-W	P-1L	1	HNO3
CD-G-W			
HG-H-W			
W-ICP-23			
W-PSHRB-NP	BG-1L	2	ICE
W-BNA	BG-1L	2	ICE
W-NH <sub>3</sub>	P-500ml	1	H <sub>2</sub> SO <sub>4</sub>
W-NO <sub>3</sub>			
W-TKN			
W-TP			
W-PO <sub>4</sub> -P	P-250 ml	1	ice/Filt.

Send Final Report To: Tim McElwey



# BNA ANALYSIS

## Quality Control Data

WATER

For Sample #'s

111811-111812; 111852-111853; 111923-111925

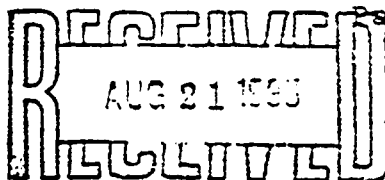
Analysis Date:

08/07/95

Page 1

Field ID:				Final Efflu			
DEP Sample ID:	Laboratory Fortified Blank			111852			
QC Type QC Unit	LFB1 % Rec	LFB 2 % Rec	RPD %	Spike 1 % Rec	Spike 2 % Rec	RPD %	Spike Level µg/L
PHENOL	46			32	33	3.1	50.00
2-CHLOROPHENOL	93			71	71	0.0	50.00
1,4-DICHLOROBENZENE	70			58	59	1.7	25.00
N-NITROSO-DI-PROPYLAMINE	94			70	69	1.4	25.00
1,2,4-TRICHLOROBENZENE	72			59	60	1.7	25.00
4-CHLORO-3-METHYL PHENOL	106			88	88	0.0	50.00
ACENAPHTHENE	90			76	79	3.9	25.00
4-NITROPHENOL	51			47	47	0.0	50.00
2,4-DINITROTOLUENE	107			94	98	4.2	25.00
PENTACHLOROPHENOL	90			99	100	1.0	50.00
PYRENE	94			89	91	2.2	25.00

ED#285



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

CHEMICAL ANALYSIS REPORT

Request ID: RQ-95-JUL-24-06                      CompQAP# 870688G  
Job ID: 95-JUL-25-17                              Project: CSI  
Job Name: ROYAL LAKES SUBDIVISION - Job created on 25-JUL  
Date Received: 25-JUL-1995                      Customer ID: NE-JAX-WTF  
Authorized: 16-AUG-1995                          By: Liang T. Lin

Submitted By: NE DIST. OFFICE - WATER FACILITIES DIV.  
7825 Baymeadows Way  
Suite B 200  
Jacksonville, Fl. 32256-7577

For Additional Information, Please Contact  
G. William Coppenger, Ph.D.  
Yuh-Hsu Pan, Ph.D.  
Timothy W. Fitzpatrick  
Liang-Tsair Lin, Ph.D.  
Suncom 277-2571  
(904) 487-2571

Certified By:           *Lin*                                Date:           *7-17-95*          

Abbreviations & Storet Codes:

- A - Value reported is the mean of two or more determinations
- B - Results based on colony counts outside the acceptable range.
- I - Value reported is less than the minimum quantitation limit, and greater than or equal to the minimum detection limit.
- J - Estimated value
- K - Actual value is known to be less than value given
- L - Actual value is known to be greater than value given
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected; The value reported is the minimum detection limit.
- V - Analyte was detected in both sample and method blank.
- Z - Colonies were too numerous to count (TNTC).

111851/95-JUL-25-17-02 Continued from Page 2

Analysis ID: W-PSHRB-NP

Organonitrogen-phosphorus pesticides in water by mod 614

Prepared: 28-JUL-1995 00:00 By: Uma Rani Nareddy

Analyzed: 31-JUL-1995 00:00 By: Agbevanu Kwame Kamasa-Quashie

Authorized: 12-AUG-1995 By: Adrian Niculescu

Storet#	Analyte	Value	Units
77825	Alachlor	0.50 U	ug/L
82184	Ametryn	0.10 U	ug/L
39033	Atrazine	0.10 U	ug/L
39580	Azinphos Methyl	0.20 U	ug/L
82198	Bromacil	0.40 U	ug/L
81410	Butylate	0.15 U	ug/L
38932	Chlorpyrifos Ethyl	0.20 U	ug/L
38740	Chlorpyrifos Methyl	0.20 U	ug/L
39570	Diazinon	0.15 U	ug/L
39398	Ethion	0.10 U	ug/L
81758	Ethoprop	0.20 U	ug/L
38929	Fenamiphos	0.30 U	ug/L
81294	Fonofos	0.15 U	ug/L
39530	Malathion	0.30 U	ug/L
	Metalaxyl	0.60 U	ug/L
39356	Metolachlor	0.50 U	ug/L
81408	Metribuzin	0.20 U	ug/L
39610	Mevinphos	0.40 U	ug/L
38855	Naled	0.80 U	ug/L
39600	Parathion Methyl	0.20 U	ug/L
39540	Parathion Ethyl	0.20 U	ug/L
46313	Phorate	0.15 U	ug/L
39057	Prometryn	0.20 U	ug/L
39055	Simazine	0.15 U	ug/L

\*\*\*\*\* END OF REPORT \*\*\*\*\*

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY SAMPLE SUBMITTAL FORM

PMAS NO.: 1143

Lab ID: 111850

Requestor: NE-JAI-WTF

Project ID: ROYAL LAKES SUBDIVISION

RQ-95-JUL-24-06

Sample Location: Royal LAKES WWTP Collection Date: 7-24-95  
 Field ID/Name: Final Effluent Collection Time \_\_\_\_\_  
 Storet Station Number: 20031856 Grab: 095  
 NPDES Number: \_\_\_\_\_ Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

WATER		BLANKS	SOIL/SEDIMENT	TISSUE	CHEMICAL WASTE
<input type="checkbox"/> SURFACE(FRESH)	<input type="checkbox"/> INFLUENT	<input type="checkbox"/> TRIP BLANK	<input type="checkbox"/> SOIL	<input type="checkbox"/> PLANT	
<input type="checkbox"/> SURFACE(SALT)	<input checked="" type="checkbox"/> EFFLUENT	<input type="checkbox"/> FIELD BLANK	<input type="checkbox"/> FRESHWATER SEDIMENT	<input type="checkbox"/> FISH	<input type="checkbox"/> CHEM WASTE
<input type="checkbox"/> GROUND		<input type="checkbox"/> EQUIPMENT BLANK	<input type="checkbox"/> MARINE SEDIMENT	<input type="checkbox"/> SHELLFISH	
<input type="checkbox"/> DRINKING			<input type="checkbox"/> SLUDGE	<input type="checkbox"/> OTHER	

Field Parameters Measured By: Ruth Brauman  
 Signature: Ruth Brauman  
 Sampled By: Ruth Brauman Tim McKelvey  
 Signature: Tim McKelvey  
 Field Report Prepared By: Ruth Brauman  
 Signature: Ruth Brauman

Field Parameters:  
 Depth (Feet): 7  
 Chlorine, Total Residual - 50060 (mg/L): 0  
 Dissolved Oxygen(Probe) - 00299 (mg/L): 0.76  
 pH - 00400 (Std. Units): 7.21  
 Salinity - 00480 (PPTH): 0  
 Secchi Depth - 00078 (m): -  
 Specific Conductance - 00094 (umho/cm): 1108  
 Temperature - 00010 (C): 30.50

Analyses	Bottle Type	# Bottles	Preservatives
AG-G-W CD-G-W HG-H-W W-ICP-23	P-1L	1	HNO3
<u>W-PSHRB-NP</u>	BG-1L	2	ICE
W-BNA	BG-1L	2	ICE
W-NH <sub>3</sub> W-NO <sub>2</sub> W-TKN W-TP	P-500ml	1	H <sub>2</sub> SO <sub>4</sub>
<u>W-P04-T</u>	P-250ml	1	ICE/FIT.

Send Final Report To: Tim McKelvey

# NP PESTICIDE ANALYSIS

## Quality Control Data

WATER

For Sample #'s

111788-111789; 111850-111851; 112025

Analysis Date:

07/31/95

Page 1

Field ID:				CORRY#8-COL			
DEP Sample ID:	Laboratory Fortified Blank			111930			
QC Type QC Unit	LFB1 % Rec	LFB 2 % Rec	RPD %	Spike 1 % Rec	Spike 2 % Rec	RPD %	Spike Level µg/L
DICHLORVOS	88			87	87	0.0	4.00
BUTYLATE	82			84	85	1.2	1.00
DEMETON	83			88	90	2.2	2.00
FONOFOS (DYFONATE)	86			89	93	4.4	1.00
CHLORPYRIFOS METHYL	93			98	92	6.3	1.00
ALACHLOR	93			93	91	2.2	3.00
PROMETRYN	97			97	94	3.1	1.00
METOLACHLOR	97			94	92	2.2	3.00
PARATHION ETHYL	96			96	94	2.1	1.00
IPIODIONE	100			103	95	8.1	4.00

Sample ID: 111834/95-JUL-25-13-01 Matrix: W-SURF-FRH  
 Location: NORTH OF ROYAL LAKES POD  
 Field ID: TEST SITE #1  
 Collected: 24-JUL-1995 13:10 By: TIM MCKELVEY  
 Authorized: 8-AUG-1995 By: Kate Brackett  
 Type: Grab Sample  
 Lab Comments: DEP TEMP=4DC  
 Field Comments: DO=13.45

Analysis ID: W-PO4-F  
 Orthophosphate analysis of filtered water by Method 365.1.  
 Prepared: NA By:  
 Analyzed: 25-JUL-1995 17:00 By: Chris Fisher  
 Authorized: 26-JUL-1995 By: Mehrzad Emad

Storet#	Analyte	Value	Units
00671	O-Phosphate-P	0.18 A	mg P/L
Comment	None		

Sample ID: 111835/95-JUL-25-13-02 Matrix: W-SURF-FRH  
 Location: SOUTH OF ROYAL LAKES POD  
 Field ID: TEST SITE #2  
 Collected: 24-JUL-1995 12:45 By: TIM MCKELVEY  
 Authorized: 8-AUG-1995 By: Kate Brackett  
 Type: Grab Sample  
 Lab Comments: DEP TEMP=4DC  
 Field Comments: DO=14.06

Analysis ID: W-PO4-F  
 Orthophosphate analysis of filtered water by Method 365.1.  
 Prepared: NA By:  
 Analyzed: 25-JUL-1995 17:00 By: Chris Fisher  
 Authorized: 26-JUL-1995 By: Mehrzad Emad

Storet#	Analyte	Value	Units
00671	O-Phosphate-P	0.14	mg P/L
Comment	None		

Sample ID: 111836/95-JUL-25-13-03 Matrix: W-SURF-FRH  
 Location: ST.JOHNS RIVER  
 Field ID: REFERENCE SITE  
 Collected: 24-JUL-1995 14:15 By: TIM MCKELVEY  
 Authorized: 8-AUG-1995 By: Kate Brackett  
 Type: Grab Sample  
 Lab Comments: DEP TEMP=4DC  
 Field Comments: DO=13.91

Analysis ID: W-PO4-F  
 Orthophosphate analysis of filtered water by Method 365.1.  
 Prepared: NA By:  
 Analyzed: 25-JUL-1995 17:00 By: Chris Fisher  
 Authorized: 26-JUL-1995 By: Mehrzad Emad

Storet#	Analyte	Value	Units
00671	O-Phosphate-P	0.10	mg P/L
Comment	None		

Sample ID: 111837/95-JUL-25-13-04 Matrix: W-EFFLUENT  
 Location: ROYAL LAKES WWTP  
 Field ID: FINAL EFFLUENT  
 Collected: 24-JUL-1995 09:50 By: TIM MCKELVEY  
 Authorized: 8-AUG-1995 By: Kate Brackett  
 Type: Grab Sample  
 Lab Comments: DEP TEMP=4DC  
 Field Comments: DO=12.76

Analysis ID: W-PO4-F  
 Orthophosphate analysis of filtered water by Method 365.1.  
 Prepared: NA By:  
 Analyzed: 25-JUL-1995 17:00 By: Chris Fisher  
 Authorized: 26-JUL-1995 By: Mehrzad Emad

Storet#	Analyte	Value	Units
00671	O-Phosphate-P	2.2 A	mg P/L
Comment	None		

111839/95-JUL-25-13-06 Continued from Page 4

Analysis ID: W-NO2NO3

Nitrite + nitrate analysis of water by Method 353.2

Prepared: NA

By:

Analyzed: 2-AUG-1995 12:57

By: Tammy Yaukey

Authorized: 4-AUG-1995

By: Mehrzad Emad

Storet#	Analyte	Value	Units
00630	NO2NO3-N	0.050 I	mg N/L
Comment	None		

Analysis ID: W-TKN

Total Kjeldahl Nitrogen in water samples by Method 351.2

Prepared: 3-AUG-1995 15:46

By: Vijaya Reddy

Analyzed: 4-AUG-1995 10:37

By: Virginia Harmon

Authorized: 4-AUG-1995

By: Kate Brackett

Storet#	Analyte	Value	Units
00625	N_KJEL_TOT	1.1	mg N/L
Comment	None		

Analysis ID: W-TP

Total Phosphorous in water samples by Method 365.1, 365.2 or 365.4

Prepared: 3-AUG-1995 15:46

By: Vijaya Reddy

Analyzed: 4-AUG-1995 14:40

By: Virginia Harmon

Authorized: 4-AUG-1995

By: Mehrzad Emad

Storet#	Analyte	Value	Units
00665	Total-P	0.25	mg P/L
Comment	None		

Sample ID: 111840/95-JUL-25-13-07 Matrix: W-SURE-FRH

Location: SOUTH OF ROYAL LAKES POD

Field ID: TEST SITE # 2

Collected: 24-JUL-1995 12:45

By: TIM MCKELVEY

Authorized: 8-AUG-1995

By: Kate Brackett

Type: Grab Sample

Lab Comments: DEP TEMP=4DC, PH&lt;2

Field Comments: DO=14.06

111840/95-JUL-25-13-07 Continued on Page 6



111840/95-JUL-25-13-07/W-TP

Continued from Page 6

Storet#	Analyte	Value	Units
-----	-----	-----	-----
Comment	None		

Sample ID: 111841/95-JUL-25-13-08 Matrix: W-SURF-FRH  
 Location: ST.JOHNS RIVER  
 Field ID: REFERENCE SITE  
 Collected: 24-JUL-1995 14:15 By: TIM MCKELVEY  
 Authorized: 8-AUG-1995 By: Kate Brackett  
 Type: Grab Sample  
 Lab Comments: DEP TEMP=4DC,PH<2  
 Field Comments: DO=13.91

Analysis ID: W-NH3  
 Ammonia analysis of water by Method 350.1  
 Prepared: NA By:  
 Analyzed: 1-AUG-1995 09:15 By: Beverly Sanders  
 Authorized: 2-AUG-1995 By: Colin Wright

Storet#	Analyte	Value	Units
-----	-----	-----	-----
00610	Ammonia-N	0.018 I	mg N/L
Comment	None		

Analysis ID: W-NO2NO3  
 Nitrite + nitrate analysis of water by Method 353.2  
 Prepared: NA By:  
 Analyzed: 2-AUG-1995 12:57 By: Tammy Yaukey  
 Authorized: 4-AUG-1995 By: Mehrzad Emad

Storet#	Analyte	Value	Units
-----	-----	-----	-----
00630	NO2NO3-N	0.020 U	mg N/L
Comment	None		

Analysis ID: W-TKN  
 Total Kjeldahl Nitrogen in water samples by Method 351.2  
 Prepared: 3-AUG-1995 15:46 By: Vijaya Reddy  
 Analyzed: 4-AUG-1995 10:37 By: Virginia Harmon  
 Authorized: 4-AUG-1995 By: Kate Brackett

Storet#	Analyte	Value	Units
-----	-----	-----	-----

111842/95-JUL-25-13-09/W-NO2NO3

Continued from Page 8

Storet#	Analyte	Value	Units
00630	NO2NO3-N	4.0 A	mg N/L
Comment	None		

Analysis ID: W-TKN

Total Kjeldahl Nitrogen in water samples by Method 351.2

Prepared: 2-AUG-1995 14:00 By: Vijaya Reddy

Analyzed: 3-AUG-1995 09:50 By: Virginia Harmon

Authorized: 4-AUG-1995 By: Kate Brackett

Storet#	Analyte	Value	Units
00625	N_KJEL_TOT	1.4	mg N/L
Comment	None		

Analysis ID: W-TP

Total Phosphorous in water samples by Method 365.1, 365.2 or 365.4

Prepared: 2-AUG-1995 14:00 By: Vijaya Reddy

Analyzed: 3-AUG-1995 14:30 By: Virginia Harmon

Authorized: 4-AUG-1995 By: Kate Brackett

Storet#	Analyte	Value	Units
00665	Total-P	2.5	mg P/L
Comment	None		

Sample ID: 111843/95-JUL-25-13-10 Matrix: W-TRIP-BLK

Location: ~~NE-JAX-WTF~~Field ID: ~~TRIP-BLANK~~

Collected: 24-JUL-1995 08:15 By: TIM MCKELVEY

Authorized: 8-AUG-1995 By: Kate Brackett

Type: Grab Sample

Lab Comments: DEP TEMP=4DC, PH&lt;2

Field Comments: DO=2.13

Analysis ID: W-NH3

Ammonia analysis of water by Method 350.1

Prepared: NA By:

Analyzed: 3-AUG-1995 11:15 By: Beverly Sanders

Authorized: 4-AUG-1995 By: Kate Brackett

Storet#	Analyte	Value	Units
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111843/95-JUL-25-13-10/W-NH3

Continued on Page 10

QUALITY CONTROL REPORT  
Job ID: 95-JUL-25-13

Test ID	Analyte	LFB %Rec	Matrix Spike %Rec		Precision %RPD		
					LFB	SPK, SMP	
W-PO4-F	O-Phosphate-P		93.6	89.0		1.2	
W-PO4-F	O-Phosphate-P		90.4	92.9		0.5	
W-NH3	Ammonia-N		89.6	95.3		1.0	
W-NH3	Ammonia-N		97.0	98.0		3.2	
W-NH3	Ammonia-N		93.0	96.0		0.4	
W-NH3-F	Ammonia-N		96.3	95.5	96.3	95.5	1.3
W-NO2NO3	NO2NO3-N		96.8	97.7	96.8	97.7	3.1
W-NO2NO3	NO2NO3-N		93.5	95.6	93.5	95.6	
W-NO2NO3	NO2NO3-N		95.0	104			0.1
W-NO2NO3	NO2NO3-N		94.0	98.9	94.0	98.9	0.8
W-TKN	N_KJEL_TOT		104	99.4			0.6
W-TKN	N_KJEL_TOT		111	102			0.7
W-TP	Total-P		98.7	96.5			
W-TP	Total-P		102	99.3			0.9

\* Precision results are derived from duplicate samples (SMP), duplicate matrix spikes (SPK) or duplicate lab fortified blanks (LFB).

\*\*\*\*\* END OF REPORT \*\*\*\*\*

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY SAMPLE SUBMITTAL FORM**

PMAS NO.: 1143

Lab ID: 111834

Requestor: NE-JAI-WTF

Project ID: ROYAL LAKES SUBDIVISION

RQ-95-JUL-24-06

Sample Location: North of Royal Lakes POD Collection Date: 7-24-95

Field ID/Name: TEST SITE #1 Collection Time \_\_\_\_\_

Storet Station Number: 2003053A Grab: 1310

NPDES Number: \_\_\_\_\_ Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

**WATER**

**BLANKS**

**SOIL/SEDIMENT**

**TISSUE**

**CHEMICAL WASTE**

SURFACE (FRESH)  
 SURFACE (SALT)  
 GROUND  
 DRINKING

INFLUENT  
 EFFLUENT

TRIP BLANK  
 FIELD BLANK  
 EQUIPMENT BLANK

SOIL  
 FRESHWATER SEDIMENT  
 MARINE SEDIMENT  
 SLUDGE

PLANT  
 FISH  
 SHELLFISH  
 OTHER

CHEM WASTE

Field Parameters Measured By: Ruth Bauman

Signature: Ruth Bauman

Sampled By: Tim McKeelvey

Signature: Tim McKeelvey

Field Report Prepared By: Ruth Bauman

Signature: Ruth Bauman

**Field Parameters:**

Depth (Feet): 2.0  
Chlorine, Total Residual - 50060 (mg/L): -  
Dissolved Oxygen (Probe) - 00299 (mg/L): 12.45  
pH - 00400 (Std. Units): 7.69  
Salinity - 00480 (PPTH): 0.80  
Secchi Depth - 00078 (m): 0.7  
Specific Conductance - 00094 (umho/cm): 16.04  
Temperature - 00010 (C): 32.01

**Analyses**

**Bottle Type**

**# Bottles**

**Preservatives**

W-NH3  
W-NO2NO3  
W-TKN  
W-TP

P-500ML

1

H2SO4

W-PO4-F

P-250ML

1

ICE-FLTR

Send Final Report To: Tim McKeelvey

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY SAMPLE SUBMITTAL FORM**

PMAS NO.: 1143

Lab ID: 111836

Requestor: NE-JAI-WTF

RO-95-JUL-24-06

Project ID: ROYAL LAKES SUBDIVISION

Sample Location: St Johns River

Collection Date: 7-24-95

Field ID/Name: ~~ST JOHN'S RIVER~~ REFERENCE SITE

Collection Time

Storet Station Number: 20030541

Grab: 1415

NPDES Number: \_\_\_\_\_

Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

<input checked="" type="checkbox"/> SURFACE (FRESH)	<input type="checkbox"/> INFLUENT	<input type="checkbox"/> TRIP BLANK	<input type="checkbox"/> SOIL	<input type="checkbox"/> PLANT	<input type="checkbox"/> CHEMICAL WASTE
<input type="checkbox"/> SURFACE (SALT)	<input type="checkbox"/> EFFLUENT	<input type="checkbox"/> FIELD BLANK	<input type="checkbox"/> FRESHWATER SEDIMENT	<input type="checkbox"/> FISH	<input type="checkbox"/> CHEM WASTE
<input type="checkbox"/> GROUND		<input type="checkbox"/> EQUIPMENT BLANK	<input type="checkbox"/> MARINE SEDIMENT	<input type="checkbox"/> SHELLFISH	
<input type="checkbox"/> DRINKING			<input type="checkbox"/> SLUDGE	<input type="checkbox"/> OTHER	

Field Parameters Measured By: Ruth Bauman

Signature: Ruth Bauman

Sampled By: Tom McKeelvey

Signature: Tom McKeelvey

Field Report Prepared By: Ruth Bauman

Signature: Ruth Bauman

**Field Parameters:**

Depth (Feet): 2.5  
 Chlorine, Total Residual - 50060 (mg/L): -  
 Dissolved Oxygen (Probe) - 00299 (mg/L): 12.91  
 pH - 00400 (Std. Units): 7.86  
 Salinity - 00480 (PPTH): 1.11  
 Secchi Depth - 00078 (m): 0.4  
 Specific Conductance - 00094 (umho/cm): 2196  
 Temperature - 00010 (C): 21.73

Analyses	Bottle Type	# Bottles	Preservatives
W-NH3 W-NO2NO3 W-TKN W-TP	P-500ML	1	H2SO4
<u>W-PO4-F</u>	P-250ML	1	ICE-FLTR

Send Final Report To: Tom McKeelvey

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY SAMPLE SUBMITTAL FORM**

PMAS NO.: 1143

Lab ID: 111838

Requestor: NE-JAI-WTF

Project ID: ROYAL LAKES SUBDIVISION

RO-95-JUL-24-06

Sample Location: \_\_\_\_\_

Collection Date: 7-24-95

Field ID/Name: TRIP BLANK

Collection Time \_\_\_\_\_

Storet Station Number: \_\_\_\_\_

Grab: 0815

NPDES Number: \_\_\_\_\_

Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

**WATER**

**BLANKS**

**SOIL/SEDIMENT**

**TISSUE**

**CHEMICAL WASTE**

SURFACE (FRESH)  
 SURFACE (SALT)  
 GROUND  
 DRINKING

INFLUENT  
 EFFLUENT

TRIP BLANK  
 FIELD BLANK  
 EQUIPMENT BLANK

SOIL  
 FRESHWATER SEDIMENT  
 MARINE SEDIMENT  
 SLUDGE

PLANT  
 FISH  
 SHELLFISH  
 OTHER

CHEM WASTE

Field Parameters Measured By: Ruth Bouman

Signature: Ruth Bouman

Sampled By: Tim Mchalewy

Signature: Tim Mchalewy

Field Report Prepared By: Ruth Bouman

Signature: Ruth Bouman

**Field Parameters:**

Depth (Feet): 0  
Chlorine, Total Residual - 50060 (mg/L): -  
Dissolved Oxygen (Probe) - 00299 (mg/L): 2.13  
pH - 00400 (Std. Units): 4.79  
Salinity - 00480 (PPT): -  
Secchi Depth - 00078 (m): -  
Specific Conductance - 00094 (umho/cm): 115  
Temperature - 00010 (C): 24.3

Analyses	Bottle Type	# Bottles	Preservatives
AG-G-W CD-G-W HG-H-W W-ICP-23	P-1L	1	HNO3
W-PSHRB-NP	BG-1L	2	ICE
W-BNA	BG-1L	2	ICE
W-NH3 W-NO2NO3 W-TKN W-TP	P-500ml	1	H2SO4
<u>W-PC4-F</u>	<u>P-250ml</u>	<u>1</u>	<u>ICE-FILTER</u>

Send Final Report To: Tim Mchalewy

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY SAMPLE SUBMITTAL FORM

PMAS NO.: 1143

Requestor: NE-JAI-WTF

Lab ID: 111840

Project ID: ROYAL LAKES SUBDIVISION

RO-95-JUL-24-06

Sample Location: South of Royal Lakes PCD Collection Date: 07-21-95

Field ID/Name: TEST SITE #2 Collection Time

Storet Station Number: 20020540 Grab: 1245

NPDES Number: \_\_\_\_\_ Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

WATER		BLANKS		SOIL/SEDIMENT		TISSUE		CHEMICAL WASTE	
<input checked="" type="checkbox"/> SURFACE(FRESH)	<input type="checkbox"/> INFLUENT	<input type="checkbox"/> TRIP BLANK	<input type="checkbox"/> SOIL	<input type="checkbox"/> PLANT	<input type="checkbox"/> FISH	<input type="checkbox"/> CHEM WASTE			
<input type="checkbox"/> SURFACE(SALT)	<input type="checkbox"/> EFFLUENT	<input type="checkbox"/> FIELD BLANK	<input type="checkbox"/> FRESHWATER SEDIMENT	<input type="checkbox"/> FISH	<input type="checkbox"/> SHELLFISH	<input type="checkbox"/> CHEM WASTE			
<input type="checkbox"/> GROUND		<input type="checkbox"/> EQUIPMENT BLANK	<input type="checkbox"/> MARINE SEDIMENT	<input type="checkbox"/> SHELLFISH	<input type="checkbox"/> OTHER				
<input type="checkbox"/> DRINKING			<input type="checkbox"/> SLUDGE						

Field Parameters Measured By: Ruth Bauman  
 Signature: Ruth Bauman  
 Sampled By: Tim McKeelvey  
 Signature: Tim McKeelvey  
 Field Report Prepared By: Ruth Bauman  
 Signature: Ruth Bauman

Field Parameters:  
 Depth (Feet): 1.0  
 Chlorine, Total Residual - 50060 (mg/L): -  
 Dissolved Oxygen(Probe) - 00299 (mg/L): 14.06  
 pH - 00400 (Std. Units): 7.58  
 Salinity - 00480 (PPT): 0.74  
 Secchi Depth - 00078 (m): 0.6  
 Specific Conductance - 00094 (umho/cm): 1446  
 Temperature - 00010 (C): 31.95

Analyses	Bottle Type	# Bottles	Preservatives
<input checked="" type="checkbox"/> W-NH3 <input checked="" type="checkbox"/> W-NO2NO3 <input checked="" type="checkbox"/> W-TKN <input checked="" type="checkbox"/> W-TP	P-500ML	1	H2SO4
W-PO4-F	P-250ML	1	ICE-FLTR

Send Final Report To: Tim McKeelvey

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY SAMPLE SUBMITTAL FORM**

PMAS NO.: 1143

Lab ID: 111842

Requestor: NE-JAX-WTF

RO-95-JUL-24-06

Project ID: ROYAL LAKES SUBDIVISION

Sample Location: Royal LAKES WWTP  
 Field ID/Name: Final Effluent  
 Storet Station Number: 20031856  
 NPDES Number: \_\_\_\_\_

Collection Date: 7-24-95  
 Collection Time: \_\_\_\_\_  
 Grab: 095  
 Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

WATER		BLANKS	SOIL/SEDIMENT	TISSUE	CHEMICAL WASTE
<input type="checkbox"/> SURFACE(FRESH)	<input type="checkbox"/> INFLUENT	<input type="checkbox"/> TRIP BLANK	<input type="checkbox"/> SOIL	<input type="checkbox"/> PLANT	
<input type="checkbox"/> SURFACE(SALT)	<input checked="" type="checkbox"/> EFFLUENT	<input type="checkbox"/> FIELD BLANK	<input type="checkbox"/> FRESHWATER SEDIMENT	<input type="checkbox"/> FISH	<input type="checkbox"/> CHEM WASTE
<input type="checkbox"/> GROUND		<input type="checkbox"/> EQUIPMENT BLANK	<input type="checkbox"/> MARINE SEDIMENT	<input type="checkbox"/> SHELLFISH	
<input type="checkbox"/> DRINKING			<input type="checkbox"/> SLUDGE	<input type="checkbox"/> OTHER	

Field Parameters Measured By: Ruth Brauman  
 Signature: Ruth Brauman  
 Sampled By: Tim McKelvey  
 Signature: Tim McKelvey  
 Field Report Prepared By: Ruth Brauman  
 Signature: Ruth Brauman

Field Parameters:  
 Depth (Feet): 7  
 Chlorine, Total Residual - 50060 (mg/L): 0  
 Dissolved Oxygen(Probe) - 00299 (mg/L): 0.76  
 pH - 00400 (Std. Units): 7.71  
 Salinity - 00480 (PPTH): 0  
 Secchi Depth - 00078 (m): -  
 Specific Conductance -00094 (umho/cm): 1108  
 Temperature - 00010 (C): 30.50

Analyses	Bottle Type	# Bottles	Preservatives
AG-G-W CD-G-W HG-H-W W-ICP-23	P-1L	1	HNO3
W-PSHRB-NP	BG-1L	2	ICE
W-BNA	BG-1L	2	ICE
<u>W-NH3</u> <u>W-NO3</u> <u>W-TKN</u> <u>W-TP</u> <u>WPO4</u>	<u>P-500ml</u>	<u>1</u>	<u>H2SO4</u>
	<u>P-250 ml</u>	<u>1</u>	<u>ice/Filt.</u>

Send Final Report To: Tim McKelvey



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

BIOLOGICAL ANALYSIS REPORT  
-----

Request ID: RQ-95-JUL-24-07            CompQAP# 870346G  
Job ID: 95-JUL-25-15                Project: IBI  
Job Name: ROYAL LAKES SUBDIVISION - Job created on 25-JUL  
Date Received: 25-JUL-1995        Customer ID: NE-JAX-WTF  
Authorized: 28-JUL-1995            By: Landon Ross

Submitted By: NE DIST. OFFICE - WATER FACILITIES DIV.  
7825 Baymeadows Way  
Suite B 200  
Jacksonville, Fl. 32256-7577

For Additional Information, Please Contact  
Landon T. Ross, Ph.D.  
Russell B. Frydenborg  
Steven H. Wolfe  
David Whiting  
Suncom 277-2245  
(904) 487-2245

Preliminary Review Copy

Date: 3-AUG-1995

Abbreviations & Storet Codes:

- A - Value reported is the mean of two or more determinations
- B - Results based on colony counts outside the acceptable range.
- I - Value reported is less than the minimum quantitation limit,  
and greater than or equal to the minimum detection limit.
- J - Estimated value
- K - Actual value is known to be less than value given
- L - Actual value is known to be greater than value given
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected;  
The value reported is the minimum detection limit.
- V - Analyte was detected in both sample and method blank.
- Z - Colonies were too numerous to count (TNTC).

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 CENTRAL LABORATORY  
 2600 BLAIR STONE ROAD  
 TALLAHASSEE, FLORIDA 32399-2400

BIOLOGICAL ANALYSIS REPORT  
 -----

Request ID: RQ-95-JUL-24-07                      CompQAP# 870346G  
 Job ID: 95-JUL-25-12                              Project: IBI  
 Job Name: ROYAL LAKES SUBDIVISION - Job created on 25-JUL  
 Date Received: 25-JUL-1995                      Customer ID: NE-JAX-WTF  
 Authorized: 24-AUG-1995                              By: Landon Ross

Submitted By: NE DIST. OFFICE - WATER FACILITIES DIV.  
 7825 Baymeadows Way  
 Suite B 200  
 Jacksonville, Fl. 32256-7577

For Additional Information, Please Contact  
 Landon T. Ross, Ph.D.  
 Russell B. Frydenborg  
 Steven H. Wolfe  
 David Whiting  
 Suncom 277-2245  
 (904) 487-2245

*Larry*

Certified By: *SH Wolfe*                      Date: 8/24/95

Abbreviations & Storet Codes:

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- J - Estimated value
- K - Actual value is known to be less than value given
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- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected;  
 The value reported is the minimum detection limit.
- V - Analyte was detected in both sample and method blank.
- Z - Colonies were too numerous to count (TNTC).

Sample ID: 111833/95-JUL-25-12-03 Matrix: W-SURF-FRH  
 Location: ST JOHNS RIVER  
 Field ID: REFERENCE SITE  
 Collected: 24-JUL-1995 14:15 By: RUTH BOUMAN/T. McKELVE  
 Authorized: 24-AUG-1995 By: Landon Ross  
 Type: Grab Sample  
 Lab Comments: 15m4w?291DEP TEMP= 2DC  
 Field Comments: 15m4w?291DO= 13.91

Analysis ID: CHL-PPTN-W  
 Water Chlorophyll/Phaeophytin  
 Prepared: NA By:  
 Analyzed: 16-AUG-1995 17:00 By: Edward A Miller  
 Authorized: 24-AUG-1995 By: Landon Ross

Storet#	Analyte	Value	Units
32211	Chlorophyll-A, Monochromatic, Water	-999 0	Ug/L
32218	Phaeophytin-A, Monochromatic, Water	-999 0	Ug/L
Comment	Sample lost due to lab accident.		

\*\*\*\*\* END OF REPORT \*\*\*\*\*



S. TURNER  
S. MANIS

# Department of Environmental Protection

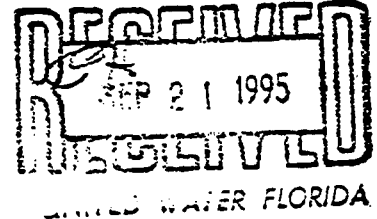
Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

September 14, 1995

Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, FL 32225



Dear Mr. Heil:

Duval County - Domestic Waste  
Royal Lakes WWTP

A Compliance Sampling Inspection (CSI), Toxicity Sampling Inspection (XSI), Compliance Biomonitoring Inspection (CBI), Water Quality Inspection (WQI), and Impact Biomonitoring Inspection (IBI) were performed at the Royal Lakes WWTP on July 24, 1995.

A final effluent sample and samples from specific reference sites (Site 1, Site 2, and St. John River) were collected and analyzed for nutrients, CBOD5, TSS, metals, organonitrogen-phosphorus pesticides, and base/neutrals and acids. Base on the chemical analysis report (ICP multielement analysis), your facility received a silver concentration of 0.17 micrograms per liter. This value exceeds the surface water quality standard limit of 0.07 micrograms per liter as specified in Rule 62-302.530, F.A.C. The Department recommends that you determine the source of silver and begin monitoring and sampling for this parameter. Please provide the Department with the results of the test samples once they have been performed. All other parameters analyzed appear to be satisfactory.

A copy of the results is enclosed for your records. If you have any questions, I can be contacted at (904) 448-4330 extension 342.

Sincerely,  
*Ha Nguyen*  
Ha Nguyen  
Engineer

CC: EPA Region IV  
*BEW  
KTS*

ROYAL LAKES SUBDIVISION

PLANT INSPECTION 7/24/95  
 SAMPLES PULLED 7/24/95

FROM CHEMICAL ANALYSIS REPORT  
 (ICP MULTIELEMENT ANALYSIS)

CALCIUM	82.5	mg/l	
COPPER	TI	ug/l	≤ 34.75 ug/l ✓✓
IRON	42	ug/l	≤ 1.0 mg/l ✓✓
MAGNESIUM	35.8	mg/l	
SILVER	0.17A	ug/l	≠ 0.07 ug/l ✓

CALCULATE HARDNESS

Calcium 82.5 mg/l  
 Magnesium 35.8 mg/l

$$Ca \Rightarrow 82.5 \text{ mg/l} \times \frac{2 \text{ eq}}{40.08 \times 10^3 \text{ mg}} \times \frac{50 \times 10^3 \text{ mg}}{\text{eq}} \text{ CaCO}_3 = 205.84 \text{ mg/l CaCO}_3$$

$$Mg \Rightarrow 35.8 \text{ mg/l} \times \frac{2 \text{ eq}}{24.305 \text{ g}} \times \frac{50 \text{ g}}{\text{eq}} \text{ CaCO}_3 = 147.29 \text{ mg/l CaCO}_3$$

353.13 mg/l  
 CaCO<sub>3</sub>

Copper Calculation:

$$Cu \leq e^{(0.8545 [\ln H] - 1.465)} \leq 34.75 \text{ ug/l}$$

CONCLUSION:

SILVER CONCENTRATION OF 0.17 ug/l exceeds the surface water quality standard of 0.07 ug/l. Need to address this issue.

TJN

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL LABORATORY  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

CHEMICAL ANALYSIS REPORT  
-----

Request ID: RQ-95-JUL-24-06      CompQAP# 870688G  
Job ID: 95-JUL-25-16            Project: CSI  
Job Name: ROYAL LAKES SUBDIVISION - Job created on 25-JUL  
Date Received: 25-JUL-1995      Customer ID: NE-JAX-WTF  
Authorized: 6-SEP-1995          By: Tim Fitzpatrick

Submitted By: NE DIST. OFFICE - WATER FACILITIES DIV.  
7825 Baymeadows Way  
Suite B 200  
Jacksonville, Fl. 32256-7577

For Additional Information, Please Contact  
G. William Coppenger, Ph.D.  
Yuh-Hsu Pan, Ph.D.  
Timothy W. Fitzpatrick  
Liang-Tsair Lin, Ph.D.  
Suncom 277-2571  
(904) 487-2571

Certified By: Y Pan                      Date: 9-6-95

Abbreviations & Storet Codes:

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- V - Analyte was detected in both sample and method blank.
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111848/95-JUL-25-16-01/W-ICP-23

Continued from Page 2

Storet#	Analyte	Value	Units
01087	Vanadium	0	ug/L
01092	Zinc	34	ug/L
Comment	None		

## Analysis ID: W-ICPMS

ICPMS analysis of total metals in water by Method 200.8

Prepared: 3-AUG-1995 00:00 By: Tracy Smith

Analyzed: 24-AUG-1995 17:21 By: Keling Dong

Authorized: 30-AUG-1995 By: Jack Merritt

Storet#	Analyte	Value	Units
01105	Aluminum	0	ug/L
01002	Arsenic	0	ug/L
01097	Antimony	0	ug/L
01007	Barium	0	ug/L
01012	Beryllium	0	ug/L
01027	Cadmium	0.1 U	ug/L
01034	Chromium	0	ug/L
01037	Cobalt	0	ug/L
01042	Copper	0	ug/L
01051	Lead	0	ug/L
01055	Manganese	0	ug/L
01062	Molybdenum	0	ug/L
01067	Nickel	0	ug/L
01147	Selenium	0	ug/L
01077	Silver	0.17 A	ug/L
01059	Thallium	0	ug/L
01087	Vanadium	0	ug/L
01092	Zinc	0	ug/L
Comment	None		

Sample ID: 111849/95-JUL-25-16-02 Matrix: W-TRIP-BLK

Location: NE-JAX-WTF

Field ID: TRIP BLANK

Collected: 24-JUL-1995 08:15

By: TIM MCKELVEY

Authorized: 6-SEP-1995

By: Tim Fitzpatrick

Type: Grab Sample

Lab Comments: DEP TEMP=4DC, PH&lt;2

Field Comments: DO=2.13

111849/95-JUL-25-16-02 Continued on Page 4

111849/95-JUL-25-16-02 Continued from Page 4

Analysis ID: W-ICPMS

ICPMS analysis of total metals in water by Method 200.8

Prepared: 3-AUG-1995 00:00 By: Tracy Smith

Analyzed: 24-AUG-1995 16:55 By: Keling Dong

Authorized: 30-AUG-1995 By: Jack Merritt

Storet#	Analyte	Value	Units
01105	Aluminum	0	ug/L
01002	Arsenic	0	ug/L
01097	Antimony	0	ug/L
01007	Barium	0	ug/L
01012	Beryllium	0	ug/L
01027	Cadmium	0.1 U	ug/L
01034	Chromium	0	ug/L
01037	Cobalt	0	ug/L
01042	Copper	0	ug/L
01051	Lead	0	ug/L
01055	Manganese	0	ug/L
01062	Molybdenum	0	ug/L
01067	Nickel	0	ug/L
01147	Selenium	0	ug/L
01077	Silver	0.05 U	ug/L
01059	Thallium	0	ug/L
01087	Vanadium	0	ug/L
01092	Zinc	0	ug/L
Comment	None		

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

CENTRAL LABORATORY SAMPLE SUBMITTAL FORM

PMAS NO.: 1143

Lab ID: 111845

Requestor: NE-JAX-WTF

Project ID: ROYAL LAKES SUBDIVISION

RO-95-JUL-24-06

Sample Location: Royal LAKES WWTP

Collection Date: 7-24-95

Field ID/Name: Final Effluent

Collection Time

Storet Station Number: 20031856

Grab: 0950

NPDES Number: \_\_\_\_\_

Composite Begin: \_\_\_\_\_ End: \_\_\_\_\_

WATER

BLANKS

SOIL/SEDIMENT

TISSUE

CHEMICAL WASTE

- SURFACE(FRESH)
- SURFACE(SALT)
- GROUND
- DRINKING

- INFLUENT
- EFFLUENT

- TRIP BLANK
- FIELD BLANK
- EQUIPMENT BLANK

- SOIL
- FRESHWATER SEDIMENT
- MARINE SEDIMENT
- SLUDGE

- PLANT
- FISH
- SHELLFISH
- OTHER

CHEM WASTE

Field Parameters Measured By: Ruth Brauman

Signature: Ruth Brauman

Sampled By: Ruth Brauman Tom McKelvey

Signature: Tom McKelvey

Field Report Prepared By: Ruth Brauman

Signature: Ruth Brauman

Field Parameters:

Depth (feet): 7  
 Chlorine, Total Residual - 50060 (mg/L): 0  
 Dissolved Oxygen(Probe) - 00299 (mg/L): 5.76  
 pH - 00400 (Std. Units): 7.71  
 Salinity - 00480 (PPH): 7  
 Secchi Depth - 00078 (m): -  
 Specific Conductance -00094 (umho/cm): 1108  
 Temperature - 00010 (C): 30.50

Analyses

Bottle Type

# Bottles

Preservatives

AG-G-W  
CD-G-W  
HG-H-W  
W-ICP-23

P-1L

1

HNO3

W-PSHRB-NP

BG-1L

2

ICE

W-BNA

BG-1L

2

ICE

W-NH3

P-500ml

1

H2SO4

W-LICNO3

W-TKN

W-TP

W-PO4-T

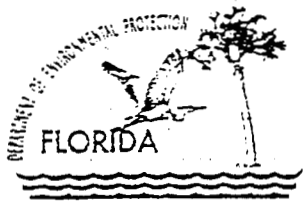
P-250 ml

1

ice/Filt.

Send Final Report To:

Tom McKelvey



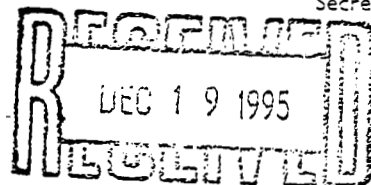
# Department of Environmental Protection

7  
Harden's  
File  
TG

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary



UNITED WATER FLORIDA

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL  
December 15, 1995

In the Matter of an Application  
for Permit by:

DEP File No. 281201

Mr. Philip Heil, Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, FL 32225

Dear Mr. Heil:

Duval County- Domestic Waste  
Royal Lakes WWTP: FL0026751

Enclosed is a revision to Section II, of Permit Number FL0026751, to modify approved residuals land application sites issued pursuant to Section(s) 403.087, Florida Statutes. All other portions of this permit remain in effect and are fully enforceable.

Specific Conditions 10, 14, and 15 are hereby modified, and Specific Condition 20 added, to reflect the addition of agricultural sites to be used for land application of residuals from the plant, as follows:

10. The basic residuals management requirements and the agricultural site requirements for this facility are as follows:

### *Basic Management Requirements*

- a. The method of residuals use or disposal by this facility is land application.
- b. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]

- c. The domestic wastewater residuals for this facility are classified as stabilization Class B.
- d.. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
- e. The permittee shall sample and analyze the residuals at least once every three months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

- A copy of the analyses shall be submitted with the discharge monitoring report.

No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The test analyses shall be

submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing tests.

*[62-640.700(1)(a), (b), (e), and (f); (2); 3(e); and (4)(f) and 62-640.500(1)(d), 3-1-91]*

- f. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. *[62-640.700(3)(c), 3-1-91]*

#### *Agricultural Sites*

- a. Class B residuals shall not be used on unrestricted access areas. *[62-640.600(6)(b), 3-1-91]*
- b. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. *[62-640.300(1), 3-1-91]*
- c. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. *[62-640.600(6)(c), 3-1-91]*
- d. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. *[62-640.600(6)(d), 3-1-91]*
- e. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. *[62-640.600(6)(e), 3-1-91]*
- f. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. *[62-640.600(6)(f), 3-1-91]*
- g. The wastewater treatment facility permittee shall notify the Department's Northeast District Office by letter of any modifications or expansions of the approved residuals land application sites. The notice shall be submitted prior to such expansion or modification. Expansions include additional site locations for the permittee's residuals. The letter shall include a site location map and shall state how the modified or expanded residuals land application site will be operated in accordance with all requirements of Chapter 62-640, F.A.C. New or revised Agricultural Use Plans shall be submitted to the Department's Northeast District with the annual updates required by Rule 62-640.500(1)(f), F.A.C. In accordance with the current Agricultural Use Plans, the department allows residuals landspreading on 50 acres of the Maguire Timber site located in St. Johns County, Florida, 263 acres of the Higgenbotham site located in Duval County, Florida, 150 acres of the Kennedy site located in Duval County, and/or

134.4 acres of the Cope Farm site located in Duval County, Florida . [62-640.300(2), 3-1-91]

- h. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
  - i. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
  - j. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
  - k. All setbacks distances must be adhered to and must be identifiable to the applier and/or inspector. [62-640.700(3)]
14. The agricultural use plans identifying the Maguire (as per agricultural use plan received April 12, 1995), Higgenbotham (as per agricultural use plan received July 18, 1995), Kennedy (as per agricultural use plan received July 18, 1995), and Cope (as per agricultural use plan received December 4, 1995) sites are hereby incorporated as a part of this permit. Updates to the Agricultural Use Plan and annual summaries, including copies of the wastewater residuals analysis for that period, shall be submitted, using DER -or- DEP Form 62-640.900(1), to the Department's Northeast District Office and WQD by July 1 of each year. The permittee shall provide annual updates to the Agricultural Use Plans; including the following:
- a. A summary of the total domestic wastewater residuals, nitrogen, and heavy metals applied on an annual basis for each specific area of application within the total application area.
  - b. The heavy metals and nitrogen application rates and the cumulative totals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWTP) for disposal of domestic wastewater residuals for each specific area of application within the total application area.
  - c. The pH of the residuals/soils mixture for the land application site.
  - d. The above specified information shall be current to within forty-five (45) days of the date of submittal.
15. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program (WQD). These records shall include:
- a. Date of application of the residuals,

- b. Location of the residuals application site,
- c. Amount of residuals applied or delivered,
- d. Identification of specific areas of the site where residuals were applied and acreage of that area,
- e. Method of incorporation of residuals (if any),
- f. Water table level at time of application, and
- g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide annual updates to the Agricultural Use Plan as required by Specific Permit Condition 15. Land application sites which have high water tables (not allowing for two feet of unsaturated soil depth) must monitor and record the water table depth prior to each application of domestic wastewater residuals.

The Department reserves the right to prohibit land application of domestic wastewater residuals if a test analysis (as required by Permit Specific Condition No. 14), an updated agricultural use plan, or an inspection of the land application site do not provide reasonable assurance of compliance with Chapter 62-640, FAC.

*[62-640.700(3)(e) and (p), 3-1-91]*

- 20. The permittee shall be responsible for maintaining waste manifest documents, which shall include the following information:
  - a. Waste material generator's name,
  - b. Generator's permit number,
  - c. Generator's site address,
  - d. Name, address, and telephone number of the generator's responsible authority,
  - e. Transport company name, address, and telephone number,
  - f. Description of material transported,
  - g. Quantity of material transported,
  - h. Generator's certification (printed name, signature, time, (hour), and date (month/day/year)),
  - i. Transporter's acknowledgment of receipt of materials (printed name, signature, time (hour) and date (month/day/year)),
  - j. Residual treatment facility's owner/operator acknowledgment of receipt of materials as specified in a. - j. (printed name, signature, time, (hour), and date (month/day/year)), and
  - k. Discrepancies in information items a. - j.

The permittee shall have these documents available for inspection upon request by the Department or the appropriate Local Environmental Program

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee,

Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

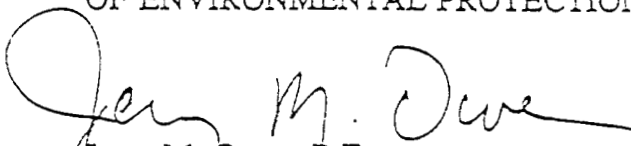
This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a

petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Jerry M. Owen, P.E.  
Water Facilities Administrator

*DJB*  
JMO:DJB/DB/mkw

cc: Stephen Manis, P.E. (United Water Florida)  
Tom Griffis (United Water Florida) ✓  
David Neldner (Duval Septic Tank Company)

ROYALLA2.REV

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to §120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*Judy R. Brown* 12/18/95  
Clerk Date



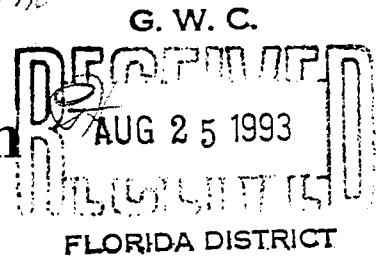


Lawton Chiles  
Governor

STANDARD ORIGINAL

# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577



Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

August 16, 1993

**CERTIFIED MAIL - RETURN RECEIPT**

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
644 Cesery Boulevard, Suite 108  
Jacksonville, Florida 32211

**Subject: Royal Lakes Wastewater Facility (WWF): Application for Operation Permit  
Duval County - Domestic Waste**

Dear Mr. Heil:

Enclosed is Operation Permit No. D016-230626, for the subject wastewater facility, issued pursuant to Section 403.087, Florida Statutes (FS).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

Your special attention is called to the following Specific Conditions of the attached permit which are listed below:

11. Comply with WWF monitoring requirements and effluent limitations.
12. This WWF will be required to comply with any Department water quality based effluent limitation (WQBEL) analysis of the St. Johns River.
13. Comply with requirements for operator licensing and staffing.
14. Domestic wastewater residuals shall be sampled and tested at least once every ninety (90) days.
15. The agricultural use plan shall be updated at least once every 365 days.
16. Effluent shall be sampled and tested for the listed parameters at least once every thirty (30) days.

17. Operation Permit No. DO16-230626 will be modified to require effluent toxicity testing.
18. Comply with the schedule for implementing a reclaimed water reuse system.
19. Submit a permit application no later than February 15, 1998.

A person whose substantial interests are affected by this Permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permit holder's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Florida Administrative Code (FAC) Rule 28-5.207.

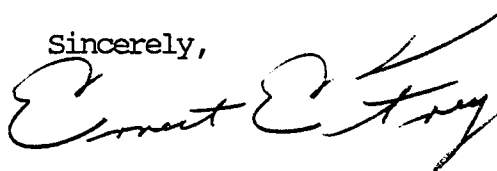
This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

Any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in this Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,



Ernest E. Frey, P.E.  
Director of District Management

Copies furnished to: <sup>BPW</sup>

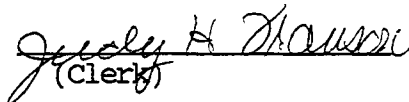
CJH

Jacksonville Water Quality Division  
Mr. Richard Drew, DEP  
Ms. Julie Gissedanner, DEP  
Mr. Peter McGarry, U.S. EPA

#### CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on August 23, 1993 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
(Clerk)

8/23/93  
(Date)



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.  
644 Cesery Boulevard, Suite 108  
Jacksonville, Florida 32211

**I.D. NUMBER:** 3116PO5360  
**PERMIT/CERT NUMBER:** DO16-230626  
**DATE OF ISSUE:** August 16, 1993  
**EXPIRATION DATE:** April 15, 1998  
**COUNTY:** Duval  
**LAT/LONG:** 30°12'42"N/81°33'46"W  
**SECTION/TOWNSHIP/RANGE:**  
**PROJECT:** Royal Lakes  
Wastewater Facility (WWF)

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the operation of a 3.25 MGD conventional/plug flow wastewater facility consisting of 1.75 MGD and 1.50 MGD Sanitaire units operated in parallel; influent flows through a common vortex grit remover prior to being split between the two (2) Sanitaire Units; following separate clarification, effluent flows into a common chlorination system, followed by dechlorination [utilizing sulfur dioxide (SO<sub>2</sub>)] and discharge into the St. Johns River via a 24"-inch diameter, 22,250 foot force main; a portion of the chlorinated effluent is reused for on-site, nonpotable water demands (including chlorination and dechlorination); domestic wastewater residuals are wasted to a gravity thickening system, stabilized by aerobic digestion and disposed of by land application; the sand filtration system and the [reclaimed water reuse] chlorine contact chamber will be placed into operation as part of a public access reclaimed water reuse system; this facility serves the Royal Lakes Wastewater Facility Certificated Area of Service.

Royal Lakes Wastewater Facility is located at 8509 Western Way, Jacksonville, Duval County, Florida.

Operation Permit No. DO16-230626 is issued in accordance with the application received April 30, 1993 and completed by additional information received June 2, 1993.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861 Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
- a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
- a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Florida Administrative Code Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit is required to be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER 116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

1. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operating report (MOR) on the operation of the subject wastewater facility. Such report shall also contain information on the daily quantities of domestic wastewater residuals generated at the source, type and degree of treatment and the site of ultimate disposal. Reports using Department of Environmental Regulation (DER) or Department of Environmental Protection (DEP) Form 17-601.900(1) shall be submitted on a monthly basis and must be received by the Department no later than the twenty eighth (28th) day of the month following the month of operation. The test site identification number for this facility is 3116X12403 and will be entered under Part II, Item (10) of the MOR. For the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Protection (DEP), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RESD) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. Domestic wastewater residuals or other solid waste shall not be discharged into waters either directly or indirectly and the same shall be disposed of in a manner approved by DEP.
3. The effluent from this source shall be adequately chlorinated at all times so as to provide a basic level of disinfection as required by Florida Administrative Code (FAC) Rule 17-600.440(4).
4. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of FAC Chapter 17-602. Sampling and monitoring of this facility will be in accordance with FAC Chapter 17-601.
5. The discharge authorized this permit shall be consistent at all times with the water quality standards set forth in FAC Chapters 17-301 and 17-302.
6. No additional connection shall be made to this facility without prior approval of the Department.
7. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with FAC Rule 17-600.720(2).
9. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
10. Domestic wastewater residuals shall be disposed of in accordance with FAC Chapter 17-640. All domestic wastewater residuals applied to the land shall be treated as required by FAC Rule 17-640.600. Domestic wastewater residuals shall be disposed of in accordance with FAC Rule 17-640.700(3) or FAC Rule 17-640.700(4).



PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERTIFICATION: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

11. The monitoring requirements and effluent limitations for this WWF are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
FLOW	3.25 MGD(b)	Continuous	(c)	Effluent
CBOD <sub>5</sub>	(a)	Weekly	Composite (f)	Influent & Effluent (d)
TSS	(a)	Weekly	Composite (f)	Influent & Effluent (d)
pH Units	6.0 to 8.5	Continuous	(g)	Effluent (d)
Chlorine Residual	Min. 0.5 mg/l(i) Max. 0.01 mg/l(j)	Continuous Daily, 7/week	(g) Grab (h)	Effluent (e) Effluent (d)
Fecal(k) Coliform	Avg. ≤200/100 ml Max. 800/100 ml	Weekly	Grab (h)	Effluent (d)

(a) Effluent Limits, Maximum (mg/l)

	Annual average	Monthly average	Weekly average	One time grab max.
CBOD <sub>5</sub> (l)	10	12.5	15	20
TSS(l)	10	12.5	15	20

- (b) Annual average daily flow shall not exceed value shown.
- (c) Effluent flow rate is measured at the chlorine contact chamber weir. A recording flow meter and a totalizer shall be used.
- (d) Effluent shall be sampled for these parameters following dechlorination and prior to discharge to surface waters.
- (e) Effluent shall be sampled for this parameter at the point of (or following) discharge from the chlorine contact chamber and prior to dechlorination.
- (f) A sixteen (16)-hour, flow-proportioned composite sample is required.
- (g) Effluent total residual chlorine (TRC) content (following chlorination) and pH are measured by continuous measurement meters. However, hourly measurements taken during the period of required operator attendance may be substituted for continuous measurement.
- (h) Grab samples for effluent TRC content (following dechlorination) and fecal coliform will be collected during periods of minimal wastewater facility pollutant removal efficiencies, or maximum organic loading in the effluent.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

- (i) Effluent TRC content (following chlorination) shall not fall below 0.5 mg/l, in accordance with the disinfection requirements of FAC Rule 17-600.440(4)(b).
  - (j) Effluent TRC content (following dechlorination) shall not exceed 0.01 mg/l, in accordance with FAC Rules 17-302.530(19) and 17-600.440(2). Effluent chlorination requirements and dechlorination requirements shall be met independently.
  - (k) Fecal coliform values shall comply with FAC Rule 17-600.440(4)(c).
  - (l) Maximum allowable annual averages for carbonaceous five (5)-day biochemical oxygen demand (CBOD<sub>5</sub>) and total suspended solids (TSS) are assigned in accordance with the Royal Lakes Wastewater Facility Antidegradation Analysis (submitted as a modification to Construction Permit No. DC16-160073). Maximum allowable monthly averages, weekly averages and one (1)-time grab samples are calculated in accordance with FAC Rule 17-600.740(1)(b)2.
12. The Department is conducting Water Quality Based Effluent Limitation (WQBEL) studies for certain parts of Duval County. If a WQBEL is developed for this source which requires the annual effluent limits to be revised, the Permittee shall be notified in writing by the Department. After notification, the Permittee shall be allowed (a) 90 days to bring the wastewater facility into compliance with the revised effluent limits or (b) 60 days to submit an application for (1) a construction permit which will bring the wastewater facility into compliance within 180 days of construction permit issue date or (2) a temporary operation permit with a compliance schedule or (3) administrative relief pursuant to FAC Rules 17-4.23 and 17-4.244. Department studies do not relieve the applicant of specific responsibilities in rule or elsewhere in this permit.

The Department will modify this permit at a later date to require ambient water quality monitoring per FAC Rule 17-650.500.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

13. This WWF shall be staffed by a State-licensed Class C (or higher) operator for no less than seven (7) days per week and for no less than eight (8) hours per day. The lead/chief operator must be a State-licensed Class B (or higher) operator. The Department will permit eight (8) hour per day operator attendance (instead of the sixteen (16) hour per day attendance requirement specified in FAC Rule 17-699.310(3)(b) for a Category II, Class B Treatment Process, currently utilized by this WWF) for a trial period of one (1) year from the permit date of issue. This trial period for reduced operator daily staffing hours is granted because Jacksonville Suburban Utilities Corporation (JSUC) has provided the Department with reasonable assurance that its Supervisory Control and Data Acquisition (SCADA) System complies with the requirements of FAC Rule 17-602.375(3). Throughout the trial period, JSUC shall properly maintain the SCADA System to ensure continuous, reliable operations. Following completion of the trial period, the Department will review the WWF effluent data and notify JSUC (in writing) regarding whether operator attendance may remain at eight (8) hours per day.

The Department reserves the right to require JSUC to resume sixteen (16)-hour per day operator attendance [as specified in FAC Rule 17-699.310(3)(b)] prior to completion of the one (1) year trial period or any time thereafter if the subject WWF does not maintain compliance with the effluent limits in Permit Specific Condition No. 11.

14. The domestic wastewater residuals from the subject WWF shall be sampled and tested after final treatment but prior to utilization or disposal in accordance with the requirements of FAC Rule 17-640.700. Domestic wastewater residuals shall be sampled and tested at least once during any rolling ninety (90)-day period for the following parameters:

Total Nitrogen	- %	dry weight
Total Phosphorus	- %	dry weight
Total Potassium	- %	dry weight
Total Solids	- %	dry weight
Cadmium mg/kg		dry weight
Copper mg/kg		dry weight
Lead mg/kg		dry weight
Nickel mg/kg		dry weight
Zinc mg/kg		dry weight
pH		standard units

No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The test analyses shall be submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing tests.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

15. The Agricultural Use Plan shall be updated at least once every 365 days as required by FAC Rule 17-640.500(1)(f). The updated Agricultural Use Plan shall be submitted (to WQD and DEP) using DER or DEP Form 17-640.900(1) and shall be accompanied by the following information:
- a. A summary of the total domestic wastewater residuals, nitrogen and heavy metals applied on an annual basis.
  - b. The cumulative heavy metals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWF) for disposal of domestic wastewater residuals.
  - c. The pH of the residuals/soils mixture for the land application site.
  - d. The above-specified information shall be current to within forty five (45) days of its date of submittal.

Pursuant to FAC Rule 17-640.700(3), records of application areas and application rates of domestic wastewater residuals must be maintained by the Permittee and must be available for inspection upon request by DEP or WQD. Records shall be kept on DER or DEP Form 17-640.900(3)[or by an approved method which provides equivalent detail] and shall include information specified in FAC Rule 17-640.700(3)(p).

The Department reserves the right to prohibit land application of domestic wastewater residuals if a test analysis (as required by Permit Specific Condition No. 14) and/or an updated agricultural use plan do not provide reasonable assurance of compliance with FAC Chapter 17-640.

16. Effluent discharged by the subject facility shall be sampled and tested for the following:
- a. Organic nitrogen.
  - b. Total Kjeldahl nitrogen.
  - c. Total ammonia ( $\text{NH}_3\text{-N}$  and  $\text{NH}_4^+\text{-N}$ ).
  - d. Nitrite nitrogen ( $\text{NO}_2\text{-N}$ ) and nitrate nitrogen ( $\text{NO}_3\text{-N}$ ).
  - e. Total phosphorus.
  - f. Orthophosphorus.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: D016-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

Sixteen (16)-hour, flow-proportioned composite samples shall be taken; sampling and testing shall be conducted at least once during any rolling thirty (30)-day period until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/l) shall be submitted to the Department with the monthly operating report corresponding to the month in which the samples were taken. Samples shall be taken following dechlorination and prior to discharge to the St. Johns River.

17. The Department will modify Operation Permit No. D016-230626, Specific Condition No. 17 to require effluent toxicity testing (1) following a final determination by the Division of Administrative Hearings (DOAH) regarding Office of General Counsel Case No. 91-1197 and/or other similar cases and/or (2) in accordance with any Department rule changes. Any Department permit modification will include appropriate procedures for appeal and afford a reasonable period of time for achieving compliance with effluent toxicity testing requirements.
18. JSUC shall plan, design construct and implement a reclaimed water reuse system for the Royal Lakes WWF, in accordance with the following schedule:
  - a. No later than sixty (60) days following permit date of issue, JSUC shall submit a letter to the St. Johns River Water Management District (SJRWMD) requesting that it provide written notice to potential acceptors of the availability of reclaimed water (within the Royal Lakes WWF Certificated Area of Service).
  - b. No later than thirty (30) days following submittal of the letter [referenced in Note (a)] to SJRWMD, JSUC shall provide written notification to all potential acceptors of reclaimed water.

Negotiations among all concerned parties shall begin no later than thirty (30) days following JSUC's mailing of written notifications.
  - c. If negotiations result in JSUC securing an agreement with one or more acceptors of reclaimed water, JSUC shall comply with the following schedule:

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

- (1) JSUC shall submit a written request to the Florida Public Service Commission (PSC) for a limited proceeding to establish rates to cover the costs of reclaimed water reuse program.
  - (2) Immediately following approval by PSC, JSUC shall begin designing the reclaimed water reuse system and no later than 120 days following commencement of the reclaimed water reuse system design, JSUC shall submit a construction application in accordance with the Department's Administrative Procedures. The application shall include State and local processing fees and all necessary documents, drawings and reports.
- d. In the event a contract cannot be negotiated, JSUC shall provide a written explanation of the reasons to DEP and WQD. The Department will make the final decision whether JSUC meets the reuse consideration requirements. JSUC shall provide WQD and DEP with written notification regarding (1) the beginning and completion of each phase of the schedule outlined in Permit Specific Condition No. 18 and (2) any delays in implementing the schedule.

The Department will not hold JSUC accountable for any delays in implementing a reclaimed water reuse program caused by other parties or events that are beyond the control of JSUC.

19. No later than February 15, 1998, the Permittee shall submit an application for an operation permit or a temporary operation permit for the subject WWF. The application shall be submitted in accordance with the Administrative Procedures of the Department and shall include (1) all required State and local processing fees and (2) all required documents, plans, reports and studies.

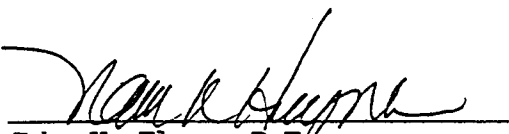
CJH

Issued this 20 day of Aug 1993

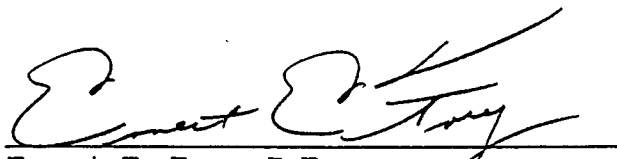
CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

RFW



for John K. Flowe, P.E.  
Division Chief



Ernest E. Frey, P.E.  
Director of District Management

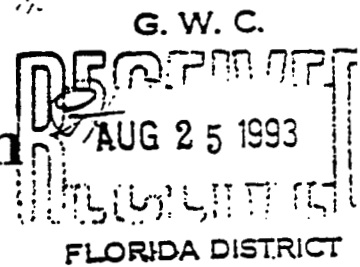


Lawton Chiles  
Governor

Florida Department of  
Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

NOTICE OF PERMIT ISSUANCE



Virginia B. Wetherell  
Secretary

August 16, 1993

CERTIFIED MAIL - RETURN RECEIPT

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
644 Cesery Boulevard, Suite 108  
Jacksonville, Florida 32211

Subject: Royal Lakes Wastewater Facility (WWF): Application for Operation Permit  
Duval County - Domestic Waste

Dear Mr. Heil:

Enclosed is Operation Permit No. D016-230626, for the subject wastewater facility, issued pursuant to Section 403.087, Florida Statutes (FS).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

Your special attention is called to the following Specific Conditions of the attached permit which are listed below:

11. Comply with WWF monitoring requirements and effluent limitations.
12. This WWF will be required to comply with any Department water quality based effluent limitation (WQBEL) analysis of the St. Johns River.
13. Comply with requirements for operator licensing and staffing.
14. Domestic wastewater residuals shall be sampled and tested at least once every ninety (90) days.
15. The agricultural use plan shall be updated at least once every 365 days.
16. Effluent shall be sampled and tested for the listed parameters at least once every thirty (30) days.

17. Operation Permit No. D016-230626 will be modified to require effluent toxicity testing.
18. Comply with the schedule for implementing a reclaimed water reuse system.
19. Submit a permit application no later than February 15, 1998.

A person whose substantial interests are affected by this Permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permit holder's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Florida Administrative Code (FAC) Rule 28-5.207.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

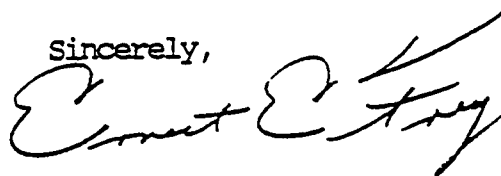


Any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in this Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,



Ernest E. Frey, P.E.  
Director of District Management

Copies furnished to: <sup>APW</sup>

<sup>CJH</sup>  
Jacksonville Water Quality Division  
Mr. Richard Drew, DEP  
Ms. Julie Gissedanner, DEP  
Mr. Peter McGarry, U.S. EPA

#### CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on August 23, 1993 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Judy H. Shaw 8/23/93  
(Clerk) (Date)



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corp.  
644 Cesery Boulevard, Suite 108  
Jacksonville, Florida 32211

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: D016-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998  
COUNTY: Duval  
LAT/LONG: 30°12'42"N/81°33'46"W  
SECTION/TOWNSHIP/RANGE:  
PROJECT: Royal Lakes  
Wastewater Facility (WWF)

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the operation of a 3.25 MGD conventional/plug flow wastewater facility consisting of 1.75 MGD and 1.50 MGD Sanitaire units operated in parallel; influent flows through a common vortex grit remover prior to being split between the two (2) Sanitaire Units; following separate clarification, effluent flows into a common chlorination system, followed by dechlorination [utilizing sulfur dioxide (SO<sub>2</sub>)] and discharge into the St. Johns River via a 24"-inch diameter, 22,250 foot force main; a portion of the chlorinated effluent is reused for on-site, nonpotable water demands (including chlorination and dechlorination); domestic wastewater residuals are wasted to a gravity thickening system, stabilized by aerobic digestion and disposed of by land application; the sand filtration system and the [reclaimed water reuse] chlorine contact chamber will be placed into operation as part of a public access reclaimed water reuse system; this facility serves the Royal Lakes Wastewater Facility Certificated Area of Service.

Royal Lakes Wastewater Facility is located at 8509 Western Way, Jacksonville, Duval County, Florida.

Operation Permit No. D016-230626 is issued in accordance with the application received April 30, 1993 and completed by additional information received June 2, 1993.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861 Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
- a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
- a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Florida Administrative Code Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit is required to be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standards (Section 401, FL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER 116PO5360  
PERMIT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

1. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operating report (MOR) on the operation of the subject wastewater facility. Such report shall also contain information on the daily quantities of domestic wastewater residuals generated at the source, type and degree of treatment and the site of ultimate disposal. Reports using Department of Environmental Regulation (DER) or Department of Environmental Protection (DEP) Form 17-601.900(1) shall be submitted on a monthly basis and must be received by the Department no later than the twenty eighth (28th) day of the month following the month of operation. The test site identification number for this facility is 3116X12403 and will be entered under Part II, Item (10) of the MOR. For the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Protection (DEP), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RES/D) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. Domestic wastewater residuals or other solid waste shall not be discharged into waters either directly or indirectly and the same shall be disposed of in a manner approved by DEP.
3. The effluent from this source shall be adequately chlorinated at all times so as to provide a basic level of disinfection as required by Florida Administrative Code (FAC) Rule 17-600.440(4).
4. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of FAC Chapter 17-602. Sampling and monitoring of this facility will be in accordance with FAC Chapter 17-601.
5. The discharge authorized this permit shall be consistent at all times with the water quality standards set forth in FAC Chapters 17-301 and 17-302.
6. No additional connection shall be made to this facility without prior approval of the Department.
7. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with FAC Rule 17-600.720(2).
9. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
10. Domestic wastewater residuals shall be disposed of in accordance with FAC Chapter 17-640. All domestic wastewater residuals applied to the land shall be treated as required by FAC Rule 17-640.600. Domestic wastewater residuals shall be disposed of in accordance with FAC Rule 17-640.700(3) or FAC Rule 17-640.700(4).

PERMITTEE:  
Philip Heil  
Royal Lakes  
F

I.D. NUMBER: 3116PO5360  
PERMIT/CERTIFICATION: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

11. The monitoring requirements and effluent limitations for this WWF are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
FLOW	3.25 MGD(b)	Continuous	(c)	Effluent
CBOD <sub>5</sub>	(a)	Weekly	Composite (f)	Influent & Effluent (d)
TSS	(a)	Weekly	Composite (f)	Influent & Effluent (d)
pH Units	6.0 to 8.5	Continuous	(g)	Effluent (d)
Chlorine Residual	Min. 0.5 mg/l(i) Max. 0.01 mg/l(j)	Continuous Daily, 7/week	(g) Grab (h)	Effluent (e) Effluent (d)
Fecal(k) Coliform	Avg. ≤200/100 ml Max. 800/100 ml	Weekly	Grab (h)	Effluent (d)

) Effluent Limits, Maximum (mg/l)

	Annual average	Monthly average	Weekly average	One time grab max.
CBOD <sub>5</sub> (l)	10	12.5	15	20
TSS(l)	10	12.5	15	20

- (b) Annual average daily flow shall not exceed value shown.
- (c) Effluent flow rate is measured at the chlorine contact chamber weir. A recording flow meter and a totalizer shall be used.
- (d) Effluent shall be sampled for these parameters following dechlorination and prior to discharge to surface waters.
- (e) Effluent shall be sampled for this parameter at the point of (or following) discharge from the chlorine contact chamber and prior to dechlorination.
- (f) A sixteen (16)-hour, flow-proportioned composite sample is required.
- (g) Effluent total residual chlorine (TRC) content (following chlorination) and pH are measured by continuous measurement meters. However, hourly measurements taken during the period of required operator attendance may be substituted for continuous measurement.
- (h) Grab samples for effluent TRC content (following dechlorination) and fecal coliform will be collected during periods of minimal wastewater facility pollutant removal efficiencies, or maximum organic loading in the effluent.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116P05360  
PERMIT/CERT NUMBER: D016-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

- (i) Effluent TRC content (following chlorination) shall not fall below 0.5 mg/l, in accordance with the disinfection requirements of FAC Rule 17-600.440(4)(b).
  - (j) Effluent TRC content (following dechlorination) shall not exceed 0.01 mg/l, in accordance with FAC Rules 17-302.530(19) and 17-600.440(2). Effluent chlorination requirements and dechlorination requirements shall be met independently.
  - (k) Fecal coliform values shall comply with FAC Rule 17-600.440(4)(c).
  - (l) Maximum allowable annual averages for carbonaceous five (5)-day biochemical oxygen demand (CBOD<sub>5</sub>) and total suspended solids (TSS) are assigned in accordance with the Royal Lakes Wastewater Facility Antidegradation Analysis (submitted as a modification to Construction Permit No. D016-160073). Maximum allowable monthly averages, weekly averages and one (1)-time grab samples are calculated in accordance with FAC Rule 17-600.740(1)(b)2.
12. The Department is conducting Water Quality Based Effluent Limitation (WQBEL) studies for certain parts of Duval County. If a WQBEL is developed for this source which requires the annual effluent limits to be revised, the Permittee shall be notified in writing by the Department. After notification, the Permittee shall be allowed (a) 90 days to bring the wastewater facility into compliance with the revised effluent limits or (b) 60 days to submit an application for (1) a construction permit which will bring the wastewater facility into compliance within 180 days of construction permit issue date or (2) a temporary operation permit with a compliance schedule or (3) administrative relief pursuant to FAC Rules 17-4.23 and 17-4.244. Department studies do not relieve the applicant of specific responsibilities in rule or elsewhere in this permit.

The Department will modify this permit at a later date to require ambient water quality monitoring per FAC Rule 17-650.500.



No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The test analyses shall be submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing tests.

Total Nitrogen	- %	dry weight
Total Phosphorus	- %	dry weight
Total Potassium	- %	dry weight
Total Solids	- %	dry weight
Cadmium mg/kg		dry weight
Copper mg/kg		dry weight
Lead mg/kg		dry weight
Nickel mg/kg		dry weight
Zinc mg/kg		dry weight
pH standard units		

14. The domestic wastewater residuals from the subject WWF shall be sampled and tested after final treatment but prior to utilization or disposal in accordance with the requirements of FAC Rule 17-640.700. Domestic wastewater residuals shall be sampled and tested at least once during any rolling ninety (90)-day period for the following parameters:

The Department reserves the right to require JSUC to resume sixteen (16)-hour per day operator attendance [as specified in FAC Rule 17-699.310(3)(b)] prior to completion of the one (1) year trial period or any time thereafter if the subject WWF does not maintain compliance with the effluent limits in Permit Specific Condition No. 11.

13. This WWF shall be staffed by a State-licensed Class C (or higher) operator for no less than seven (7) days per week and for no less than eight (8) hours per day. The lead/chief operator must be a State-licensed Class B (or higher) operator. The Department will permit eight (8) hour per day operator attendance (instead of the sixteen (16) hour per day attendance requirement specified in FAC Rule 17-699.310(3)(b) for a Category II, Class B Treatment Process, currently utilized by this WWF) for a trial period of one (1) year from the permit date of issue. This trial period for reduced operator daily staffing hours is granted because Jacksonville Suburban Utilities Corporation (JSUC) has provided the Department with reasonable assurance that its Supervisory Control and Data Acquisition (SCADA) System complies with the requirements of FAC Rule 17-602.375(3). Throughout the trial period, JSUC shall properly maintain the SCADA System to ensure continuous, reliable operations. Following completion of the trial period, the Department will review the WWF effluent data and notify JSUC in writing) regarding whether operator attendance may remain at eight (8) hours per day.

SPECIFIC CONDITIONS:

I.D. NUMBER: 3116F05360  
PERMIT/CERT NUMBER: D016-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

PERMITTEE:  
Phillip Hall  
Royal Lakes  
WWF

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

15. The Agricultural Use Plan shall be updated at least once every 365 days as required by FAC Rule 17-640.500(1)(f). The updated Agricultural Use Plan shall be submitted (to WQD and DEP) using DER or DEP Form 17-640.900(1) and shall be accompanied by the following information:
- a. A summary of the total domestic wastewater residuals, nitrogen and heavy metals applied on an annual basis.
  - b. The cumulative heavy metals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWF) for disposal of domestic wastewater residuals.
  - c. The pH of the residuals/soils mixture for the land application site.
  - d. The above-specified information shall be current to within forty five (45) days of its date of submittal.

Pursuant to FAC Rule 17-640.700(3), records of application areas and application rates of domestic wastewater residuals must be maintained by the Permittee and must be available for inspection upon request by DEP or WQD. Records shall be kept on DER or DEP Form 17-640.900(3)[or by an approved method which provides equivalent detail] and shall include information specified in FAC Rule 17-640.700(3)(p).

The Department reserves the right to prohibit land application of domestic wastewater residuals if a test analysis (as required by Permit Specific Condition No. 14) and/or an updated agricultural use plan do not provide reasonable assurance of compliance with FAC Chapter 17-640.

16. Effluent discharged by the subject facility shall be sampled and tested for the following:
- a. Organic nitrogen.
  - b. Total Kjeldahl nitrogen.
  - c. Total ammonia ( $\text{NH}_3\text{-N}$  and  $\text{NH}_4^+\text{-N}$ ).
  - d. Nitrite nitrogen ( $\text{NO}_2\text{-N}$ ) and nitrate nitrogen ( $\text{NO}_3\text{-N}$ ).
  - e. Total phosphorus.
  - f. Orthophosphorus.

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

**SPECIFIC CONDITIONS:**

Sixteen (16)-hour, flow-proportioned composite samples shall be taken; sampling and testing shall be conducted at least once during any rolling thirty (30)-day period until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/l) shall be submitted to the Department with the monthly operating report corresponding to the month in which the samples were taken. Samples shall be taken following dechlorination and prior to discharge to the St. Johns River.

17. The Department will modify Operation Permit No. DO16-230626, Specific Condition No. 17 to require effluent toxicity testing (1) following a final determination by the Division of Administrative Hearings (DOAH) regarding Office of General Counsel Case No. 91-1197 and/or other similar cases and/or (2) in accordance with any Department rule changes. Any Department permit modification will include appropriate procedures for appeal and afford a reasonable period of time for achieving compliance with effluent toxicity testing requirements.
18. JSUC shall plan, design construct and implement a reclaimed water reuse system for the Royal Lakes WWF, in accordance with the following schedule:
  - a. No later than sixty (60) days following permit date of issue, JSUC shall submit a letter to the St. Johns River Water Management District (SJRWMD) requesting that it provide written notice to potential acceptors of the availability of reclaimed water (within the Royal Lakes WWF Certificated Area of Service).
  - b. No later than thirty (30) days following submittal of the letter [referenced in Note (a)] to SJRWMD, JSUC shall provide written notification to all potential acceptors of reclaimed water.

Negotiations among all concerned parties shall begin no later than thirty (30) days following JSUC's mailing of written notifications.
  - c. If negotiations result in JSUC securing an agreement with one or more acceptors of reclaimed water, JSUC shall comply with the following schedule:

PERMITTEE:  
Philip Heil  
Royal Lakes  
WWF

I.D. NUMBER: 3116PO5360  
PERMIT/CERT NUMBER: DO16-230626  
DATE OF ISSUE: August 16, 1993  
EXPIRATION DATE: April 15, 1998

SPECIFIC CONDITIONS:

- (1) JSUC shall submit a written request to the Florida Public Service Commission (PSC) for a limited proceeding to establish rates to cover the costs of reclaimed water reuse program.
  - (2) Immediately following approval by PSC, JSUC shall begin designing the reclaimed water reuse system and no later than 120 days following commencement of the reclaimed water reuse system design, JSUC shall submit a construction application in accordance with the Department's Administrative Procedures. The application shall include State and local processing fees and all necessary documents, drawings and reports.
- d. In the event a contract cannot be negotiated, JSUC shall provide a written explanation of the reasons to DEP and WQD. The Department will make the final decision whether JSUC meets the reuse consideration requirements. JSUC shall provide WQD and DEP with written notification regarding (1) the beginning and completion of each phase of the schedule outlined in Permit Specific Condition No. 18 and (2) any delays in implementing the schedule.

The Department will not hold JSUC accountable for any delays in implementing a reclaimed water reuse program caused by other parties or events that are beyond the control of JSUC.

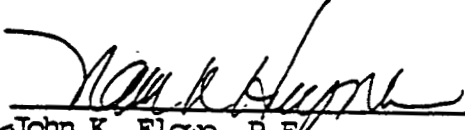
19. No later than February 15, 1998, the Permittee shall submit an application for an operation permit or a temporary operation permit for the subject WWF. The application shall be submitted in accordance with the Administrative Procedures of the Department and shall include (1) all required State and local processing fees and (2) all required documents, plans, reports and studies.

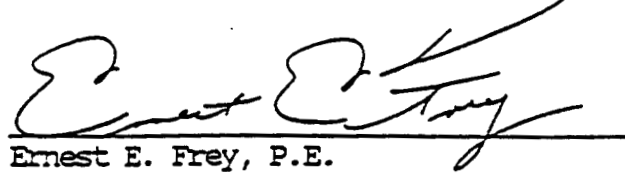
CJH

Issued this 20 day of Aug 1993

CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

  
John K. Flowe, P.E.  
Division Chief

  
Ernest E. Frey, P.E.  
Director of District Management



# Department of Environmental Protection

CC [unclear]  
Hall  
Scott  
Tom  
File

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF PERMIT ISSUANCE

RECEIVED

MAR 15 1997

CERTIFIED MAIL - RETURN RECEIPT

UNITED WATER FLORIDA

March 10, 1997

In the Matter of an Application  
for Permit by:  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

DEP File No. 274745  
Duval County  
San Jose WWTF

Enclosed is Permit Number FL0023663 to operate a 2.25 MGD Complete Mix activated sludge WWTF with final effluent disposal to the St. Johns River issued under Chapters 62-4, 62-302, 62-600, 62-601, 62-620, 62-650, 62-699 of the Florida Administrative Code (F.A.C.) and Chapter 403 of the Florida Statutes.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes, or all parties may reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition (or a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding

officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;
- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) the names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) the agreed allocation of the costs and fees associated with the mediation;
- (d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) the name of each party's representative who shall have authority to settle or recommend settlement;
- (g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action

addressed in this action or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and

(h) the signatures of all parties or their authorized representatives.

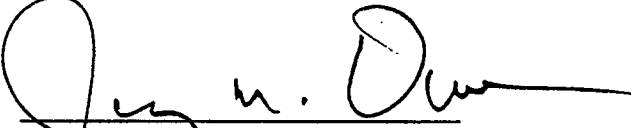
As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

This action is final and effective on the date filed with the Clerk of the Department unless a petition (or request for mediation) is filed in accordance with the above. Upon the timely filing of a petition (or request for mediation) this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

*DPK*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on March // , 1997 to the listed persons.

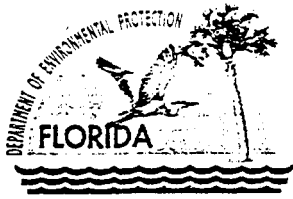
Copies furnished to: Mitchell Griffin, Ph.D., P.E.  
Douglas Mundrick, P.E., EPA  
Nam Huynh, P.E., RESD

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Judy D. Hanson* 3/11/97  
Clerk Date





# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

**PERMIT NUMBER:** FL0023663  
**ISSUANCE DATE:** March 10, 1997  
**EXPIRATION DATE:** March 10, 2002  
**APPLICATION No.:** 274745

**RESPONSIBLE AUTHORITY:**  
M. Sambumurthi, P.E., Vice President

**FACILITY:**  
San Jose WWTF  
7128 Balboa Road  
Jacksonville, Florida 32217

Latitude: 30° 14' 50" N Longitude: 81° 37' 13" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

### **TREATMENT FACILITIES:**

To operate a 2.25 MGD AADF complete mix activated sludge wastewater treatment plant with bar screen and grit removal, complete mix aeration basins and secondary clarification, with the final disinfected and dechlorinated effluent discharged to the St. Johns River (Class III waters). Wastewater treatment plant residuals are thickened and stabilized by aerobic digestion prior to hauling to a land application site.

### **EFFLUENT DISPOSAL:**

**Surface Water Discharge:** An existing 2.25 MGD AADF permitted discharge to the St. Johns River (Class III) through (1) a 5,000 foot, 15-inch diameter vitrified clay gravity pipeline to outfall D001, a 15-inch diameter vitrified clay pipeline extending approximately 250 feet from the eastern shoreline and terminating with an upturned elbow and (2) a 5,000 foot, 16-inch diameter polyethylene force main to outfall D002, a 16-inch polyethylene pipeline extending approximately 250 feet from the eastern shoreline and terminating with an upturned elbow.

**IN ACCORDANCE WITH:** The application received on July 24, 1995, additional information submitted through September 29, 1995 and limitations, monitoring requirements and other conditions set forth in the pages 1 through 17 of this permit.

Permittee:  
 United Water Florida, Inc.  
 San Jose WWTF

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**I. Effluent Limitations and Monitoring Requirements**

**A. Surface Water Discharge Limits**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfalls D001 and D002 to the St. Johns River. Such discharge shall be limited and monitored by the permittee as specified below:  
*[62-600, 6-8-93] [62-601, 5-31-93] [62-650, 11-27-89] [62-302, 1-5-93] [62-610.860, 4-2-90]*

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum	2.25	-	-	-	Continuous	Meter or Instrument	EFD-1	See I.A.4.
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	16-hour flow-composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	16-hour flow-composite	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I. A.5.						Weekly	Grab	EFD-1	
pH	std. units	Range	-	-	-	6.5 to 8.5	Continuous	Meter or Instrument	EFD-1	See I.A.3.
Total Residual Chlorine (For Disinfection)	mg/L	Minimum	-	-	-	0.5	Continuous	Meter or Instrument	EFA-1	See I.A.3., 6., and 10.
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum	-	-	-	0.01	Daily, 7/week	Grab	EFD-1	See I.A.10.
Dissolved Oxygen	mg/l	Minimum	-	-	-	Report	Daily, 7/week	Grab	EFD-1	See I.A.10
Whole Effluent Toxicity	See Permit Condition I.A.7 and 8.									
Nutrient Monitoring	See Permit Condition I.A.11									
Stream Monitoring	See Permit Condition I.A.12									
Benthic Monitoring	See Permit Condition I.A.13									

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2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFD-1	After final treatment prior to discharge to the St. Johns River.
EFA-1	After disinfection but prior to dechlorination.

3. Hourly measurement during the period of required operator attendance may be substituted for continuous measurement for pH and TRC. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
4. A recording flowmeter and totalizer shall be utilized to measure flow. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. When more than 10 samples are taken, no more than 10 percent of the samples collected during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. [62-600.440(4)(c), 6-8-93]
6. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(4)(b), 6-8-93]
7. Mortalities of 50% or greater in a sample of 100% effluent in a test of 96 hours duration or less will constitute a violation of Florida Administrative Code (FAC) and the terms of this permit. The testing for this requirement must conform with Permit Condition I.A.8. of this permit. 62-4.244(3)(a), 10-16-95.
8. WHOLE EFFLUENT TOXICITY TESTING

In accordance with Rules 62-302.500(1)(d) and 62-302.200(1) FAC, the Permittee shall initiate the series of tests described below to evaluate whole effluent toxicity of the discharge from outfalls D001 and D002. Tests shall be conducted in accordance with the Utility's existing bioassay testing schedule. All test species, procedures and quality assurance criteria used shall be in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F (4th edition), or the most current edition. The salinity of the control water and the effluent used will be adjusted using artificial sea salts as described in EPA/600/4-90/027F, Section 9, or the most current edition. The tests salinity shall be 20ppt for the mysid shrimp and for the inland silverside minnow. A standard reference toxicant quality assurance test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the discharge monitoring report (DMR). Alternatively, if monthly QA/QC reference toxicant tests are conducted, these results must be submitted with the DMR. Any deviation from the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

a. ROUTINE TEST REQUIREMENTS

1. The permittee shall conduct 96 hour acute static renewal toxicity tests using the mysid shrimp, Mysidopsis bahia and the inland silverside minnow, Menidia beryllina. All tests shall be conducted on four separate grab samples collected at evenly spaced 6 hour intervals over a 24 hour period and used in four separate tests in order to catch any peaks of toxicity and to account for daily variations in effluent quality. Results of the four tests are not to be combined or averaged, but are to be reported separately.

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San Jose WWTF

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2. If control mortality exceeds 10% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 10% for either species. If, in any separate grab sample test, 100% mortality occurs prior to the end of the test, and control mortality is less than 10% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable acute toxicity.

3. The Toxicity tests specified above shall be conducted using a control (0% effluent) and a test concentration of 100% final effluent and shall be conducted once every six months in accordance with the Utility's existing bioassay testing schedule. These tests are referred to as "routine tests".

4. Results from "routine" tests shall be reported according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition), and shall be submitted within thirty (30) days to:

Florida Department of Environmental Protection  
Northeast District  
7825 Baymeadows Way Suite B-200  
Jacksonville, Florida 32256

The results shall be entered on the DMR in the following manner: if less than 50% survival of test species occurs in any of the four separate grab sample tests, "<100%" shall be entered on the DMR for that species. If 50% or greater survival occurs in all four separate grab sample tests, ">100%" shall be entered.

#### b. ADDITIONAL TESTING REQUIREMENTS

1. If a violation of acute toxicity occurs (greater than 50% mortality in any grab sample of 100% effluent) in a routine test, the permittee shall conduct a minimum of three (3) valid additional 96 hour acute static renewal definitive tests on the specie(s) indicating toxicity. The first test shall begin within 7 days of the failed routine and be conducted weekly thereafter until three valid additional tests are complete. The additional tests sample collection requirements and test acceptability criteria specified in paragraphs 'a.1' and 'a.2' above must be met for the tests to be considered valid. All additional definitive tests shall be conducted with a control (0% effluent) and effluent concentrations of 6.25%, 12.5%, 25%, 50%, and 100%. The dilution series may be modified in the second and third tests to more accurately identify the toxicity, such that at least two dilutions above and two dilutions below the target toxicity and a control (0% effluent) are run. The additional tests will be used to determine if the toxicity found in the routine test is still present

2. Results for each additional test will include the determination of LC50 values with 95% confidence limits. Results from the additional tests, required due to an acute toxicity violation in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-90/027F, Section 12, Report Preparation (or the most current edition) and submitted within thirty (30) days of completion of the valid additional tests. If the additional tests demonstrate a continued violation of toxicity, the permittee will meet with the Department within 30 days of the report submittal to identify corrective actions necessary to remedy the permit violation.

3. Should the results from the additional tests indicate the characteristic of toxicity, and the Permittee has no reasonable explanation (with supporting data) for the test failures, the Permittee shall prepare a plan of study to identify the cause(s) or source(s) of toxicity of the effluent and evaluate feasible methodologies to reduce or eliminate the toxicity. The plan may include a chemical analysis of the effluent including priority pollutants (metals, volatile and nonvolatile organics) and nonpriority pollutant peaks, along with total and unionized ammonia, nitrate and nitrite nitrogen, TKN and total and ortho phosphorus.

4. The Permittee shall submit the plan of study to the Department for review and comments within 60 days of determination of acute toxicity by the valid additional tests and preferably, prior to meeting with the Department to identify corrective actions as required under I.9.b.2 above. The Permittee shall implement the

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San Jose WWTF

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agreed upon plan of study within 30 days of receipt of written Department's authorization to proceed. A detailed final report shall be submitted to the Department upon completion of the plan of study including conclusions and recommendations regarding the toxicity of the effluent and measures to reduce or eliminate it. [Rule 62-302.500(1)(d), FAC]

9. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. Additionally, a showing that new information, which shall include any significant information derived from effluent testing required after permit issuance, received by the Department that was not available at the time of permit issuance and would have justified the application of different permit conditions at the time of issuance is considered good and just cause for the Department to require the permittee to conform to new or additional permit conditions. The Department shall allow the permittee a reasonable time to conform to the new permit conditions. [Chapter 62-620.320(9), 62-620.325(1)(e), and 62-302.510(5), FAC]
10. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246(6)(a)through(e), FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantification limit (PQL). Results greater than or equal to the PQL shall be reported as the measured quantity. Results less than the PQL and greater than or equal to the MDL shall be reported as less than the PQL and deemed equal to the MDL. Results less than the MDL shall be reported as less than the MDL.

For Dissolved Oxygen, use EPA methods 360.1 or 360.2. For total chlorine residual, use EPA methods 330.1 or 330.5. Analysis of total residual chlorine shall be conducted to the practical quantification limit of the available equipment but not to exceed a method detection limit of 0.1 mg/L. The Department reserves the right to provide a recommended MDL and a target PQL. Equivalent methods are subject to approval by the Department for each effluent parameter. See permit general condition IX.18. [62-4.246 FAC, 4-30-95]

11. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
  - a. Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
  - b. Organic nitrogen.
  - c. Total nitrogen.
  - d. Total Ammonia.
  - e. Total Kjeldahl nitrogen.
  - f. Orthophosphorus.
  - g. Total phosphorus.

An 16-hour flow proportioned composite sample shall be taken at least once every ninety (90) days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring report corresponding to the month in which the samples were taken. [62-302.530(48) FAC, 8-8-94]

12. The Permittee shall initiate regular monitoring of the segment of the St. Johns River near the outfall for maintaining data on the impact of the discharge to the water quality of the surface water body. Monitoring shall be on a quarterly basis and shall coincide with the quarterly nutrient monitoring of the facility effluent discharge. The monitoring sites are described as follows:

- #1 approximately 300 feet upstream of the outfall
- #2 approximately 300 feet downstream of the outfall

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United Water Florida, Inc.  
San Jose WWTF

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The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, Secchi Disk, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, TP, Ortho-Phosphorus, Chlorophyll A, tide stage, alkalinity, color, chloride

Metered parameters (DO, pH, temperature, conductivity, salinity) shall be sampled at the surface. Grab samples at mid depth for the other parameters is adequate. The results of instream monitoring shall be submitted to the Northeast District Office. [62-4.240(3)(c), 4-30-95]

13. The Permittee shall conduct a reconnaissance sediment sampling event to include up to six with a minimum of three transects located (1) along the outfall and (2 & 3) approximately 300 feet upstream and 300 feet downstream of the outfall for the purpose of establishing final sampling locations for permit monitoring. Sediment samples shall be collected with a Ponar grab and visual observations made of sediment texture and organic content, water depth, and current velocity. The final selected reference sampling locations shall be similar to the outfall location. The reconnaissance sampling event shall be conducted within 90 days of permit issuance and a report submitted to establish the final sampling locations submitted to the Department within 120 days of permit issuance. Upon approval of the sampling locations by the Department, the Permittee shall initiate regular monitoring of the segment of the St. Johns River near the outfall for maintaining data on the impact of the discharge to the river sediments and associated benthic communities near the outfall to the surface water body. Monitoring shall be on a yearly basis and shall coincide with the 1st quarterly nutrient and stream monitoring events for the facility effluent discharge. The monitoring sites are described as follows:

Transect #1

SWB-1 approximately 300 feet upstream of the outfall and 20 feet from the eastern shoreline

SWB-2 approximately 300 feet upstream of the outfall and 500 feet from the eastern shoreline

Transect #2

SWB-3 approximately 300 feet downstream of the outfall and 20 feet from the eastern shoreline

SWB-4 approximately 300 feet downstream of the outfall and 500 feet from the eastern shoreline

Three replicate sediment samples will be collected at each site noted above using a Ponar dredge and combined to form one composite sample. The sample shall be screened using a U.S. Standard No. 30 sieve and benthic macroinvertebrates shall be identified. The composite sample shall be analyzed for total solids, volatile solids and particle size distribution. A report of the analyses shall be submitted to the Department along with the 1st quarter nutrient and stream monitoring results. The laboratory analyses shall also include field notes describing the color, texture, or any other qualitative description of the sediments, and other pertinent information. The results of the benthic monitoring shall be submitted to the Northeast District Office. [62-302.530(11), 8-8-94]

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**B. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

*[17-601.300(1), 5-31-93]*

Parameter	Units	Max/Min	Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	-	-	-	-	-	Weekly	16-hour composite	INF-01	See I.B.3
Total Suspended Solids	mg/L	-	-	-	-	-	Weekly	16-hour composite	INF-01	See I.B.3

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. B. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
INF-1	Following preliminary treatment (i.e. screening) in influent structure

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. *[62-601.500(4), 5-31-93]*
4. All flow measuring device(s) shall be calibrated at least annually. *[62-601.500(6) and 62-601.200(17), 5-31-93]*
5. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. *[62-620.610(18), 11-29-94]*
6. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. *[62-601.500(5), 5-31-93]*

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7. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis a Discharge Monitoring Report (DMR), Form 62-620.910(10), for each outfall, discharge point, and reuse system specified in Item(s) I.A. and I.B. above. The DMR shall include the test results for the parameters required to be sampled on the attached DMR form. The DMR shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection  
Wastewater Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

*[62-620.610(18), 11-29-94][62-601.300(1), (2), and (3), 5-31-93]*

8. Unless specified otherwise in this permit, all reports and notifications required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northeast District Office at the address specified below:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

## II. Residuals Management Requirements

### *Basic Management Requirements*

1. The method of residuals use or disposal by this facility is land application.
2. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. *[62-640, 3-1-91]*
3. The domestic wastewater residuals for this facility are classified as stabilization Class B.
4. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. *[62-640.300(3), 3-1-91]*
5. The permittee shall sample and analyze the residuals at least once every three months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:



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Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

A copy of the analyses shall be submitted with the discharge monitoring report.

*[62-640.700(1)(a), (b), (e), and (f); (2); 3(e); and (4)(f) and 62-640.500(1)(d), 3-1-91]*

- Florida water quality criteria and standards shall not be violated as a result of land application of residuals. *[62-640.700(3)(c), 3-1-91]*

***Agricultural Sites***

- Class B residuals shall not be used on unrestricted access areas. *[62-640.600(6)(b), 3-1-91]*
- Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. *[62-640.300(1), 3-1-91]*
- Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. *[62-640.600(6)(c), 3-1-91]*
- Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. *[62-640.600(6)(d), 3-1-91]*
- Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. *[62-640.600(6)(e), 3-1-91]*

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12. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. *[62-640.600(6)(f), 3-1-91]*
13. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan identifies residuals landspreading on the following sites:

Site Name	Application Area (acres)	Site Location	
		City	County
Cope Farm	134.4	Jacksonville	Duval
Higgenbotham	263	Jacksonville	Duval

*[62-620.330, 11-29-94]*

14. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. *[62-640.700(3)(d), 3-1-91]*
15. Residuals shall be applied with techniques and equipment to assure uniform application over the site. *[62-640.700(3)(n), 3-1-91]*
16. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. *[62-640.700(3)(h), 3-1-91]*
17. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
  - a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or delivered,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide: annual updates to the Agricultural Use Plan(s) to reflect any changes in domestic wastewater residuals characteristics or agricultural practices; summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis for that period, shall be submitted to the Department's Northeast District Office by July 1st of each year. *[62-640.700(3)(e) and (p), 3-1-91]*

- III. Groundwater Monitoring Requirements - Not Applicable
- IV. Additional Reuse and Land Application Requirements - Not Applicable
- V. Operation and Maintenance Requirements

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### Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category II, Class B facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 8 hours/day for 7 days/week. The lead operator must be a Class B operator, or higher.

The 8 hours/day attendance period is reduced from 16 hours/day because the on-site Supervisory Control and Data Acquisition (SCADA) system complies with the requirements of 62-699.311(3), FAC.

[62-699, 5-20-94] [62-620.630(3), 11-29-94][62-699.310, 5-20-92]

2. The lead operator shall be on duty for one full shift each duty day. A certified operator shall be on-site and in charge of each required shift and for periods of required staffing time when the lead operator is not on-site. A certified operator shall be on call during periods the plant is unattended. [62-699.311(10), (5), and (1), 5-20-92]

### Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

3. An updated capacity analysis report shall be submitted to the Department annually by July 1st of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
4. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1), 6-8-93]

### Recordkeeping Requirements

5. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of the facility record drawings;
  - h. Copies of the licenses of the current certified operators; and

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- i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

*[62-620.350,11-29-94][61E12-41.010(1)(e), 11-02-93]*

#### **VI. Compliance Schedules and Self-imposed Improvement Schedules**

1. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409C.2., the Master Plan For Regional Sewerage Development for San Jose WWTF Certificated Area of Service shall be updated no less than once every two years. The Master Plan shall be submitted to Jacksonville Regulatory and Environmental Services Department (RESD) Air and Water Quality Division (AWQD), 421 West Church Street, Suite 422, Jacksonville, Florida 32202-4111. The Master Plan shall address the requirements of EPB Rule 3.409C.3.

#### **VII. Industrial Pretreatment Program Requirements - Not Applicable**

#### **VIII. Other Specific Conditions**

1. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. *[62-620.410(5), 11-26-94]*
2. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. *[62-620.620(1)(q), 11-29-94]*
3. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. *[62-600.410(8), 6-8-93]*
4. The permittee shall not knowingly allow or cause the deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant. *[62-604.130(3), 5-31-93]*
5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550, 5-31-93] [62-620.610(20), 11-29-94]*
6. The acceptance, by the operating authority of a collection/transmission system or by the permittee of a treatment plant, of connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or

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- b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
- c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
- d. Which result in treatment plant discharges having temperatures above 40°C

is prohibited.

*[62-604.130(4), 5-31-93]*

- 7. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b), 6-8-93]*
- 8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-7.540, 12-10-85]*
- 9. The permittee shall provide adequate notice to the Department of the following:
  - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620 F.A.C. if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility. *[62-620.625(2), 11-29-94]*

**IX. General Conditions**

- 1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1), 11-29-94]*
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2), 11-29-94]*
- 3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3), 11-29-94]*

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4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4), 11-29-94]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5), 11-29-94]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6), 11-29-94]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7), 11-29-94]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), 11-29-94]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.[62-620.610(9), 11-29-94]
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10), 11-29-94]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or

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terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), 11-29-94]*

12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12), 11-29-94]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13), 11-29-94]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14), 11-29-94]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), 11-29-94]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16), 11-29-94]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17), 11-29-94]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
  - b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.

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- d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
- e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

*[62-620.610(18), 11-29-94]*

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19), 11-29-94]*
20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
  - a. The following shall be included as information which must be reported within 24 hours under this condition:
    1. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
    2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
    3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
    4. Any unauthorized discharge to surface or ground waters.
  - b. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

*[62-620.610(20), 11-29-94]*

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX. 20 of this permit. *[62-620.610(21), 11-29-94]*
22. Bypass Provisions.
  - a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
    1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
    2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of



Permittee:  
United Water Florida, Inc.  
San Jose WWTF

Permit Number: FL0023663  
Issuance Date: March 10, 1997  
Expiration Date: March 10, 2002  
Application No.: 274745

reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

3. The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.
- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1. through 3. of this permit.
- d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit.

[62-620.610(22), 11-29-94]

### 23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
  1. An upset occurred and that the permittee can identify the cause(s) of the upset;
  2. The permitted facility was at the time being properly operated;
  3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
  4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23), 11-29-94]

Executed in Jacksonville, Florida.

*JPW*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to §120.52 Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*Judy H. Branson* 3/10/97  
Clerk Date

*Jerry M. Owen*  
Jerry M. Owen, P.E.  
Water Facilities Administrator

**FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DOMESTIC WASTEWATER FACILITY PERMIT**

Permit Number: FL0023663

Application Date: July 24, 1995

Application Complete: September 29, 1995

Permit Writer: David J. Bolam, P.E.

Public Notice Date: January 17, 1997

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

M. Sambumurthi, P.E., Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

For:

San Jose WWTF  
7128 Balboa Road  
Jacksonville, Florida 32217

b. Type of Facility

Domestic Wastewater Treatment Plant  
Privately-owned treatment works  
Standard Industrial Classification Code: 4952

c. Facility Capacity

Existing Design Capacity:	2.25 MGD AADF
Proposed Increase in Design Capacity:	0.00 MGD AADF
Proposed Total Design Capacity:	2.25 MGD AADF

Existing Permitted Capacity:	2.25 MGD AADF
Proposed Increase in Permitted Capacity:	0.00 MGD AADF
Proposed Total Permitted Capacity:	2.25 MGD AADF

d. Description of Facilities

To operate a 2.25 MGD AADF complete mix activated sludge wastewater treatment plant with bar screen and grit removal, complete mix aeration basins and secondary clarification, with the final disinfected and dechlorinated effluent discharged to the St. Johns River (Class III waters). Wastewater treatment plant residuals are thickened and stabilized by aerobic digestion prior to hauling to a land application site.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge: An existing 2.25 MGD AADF permitted discharge to the St. Johns River (Class III) through (1) a 5,000 foot, 15-inch diameter vitrified clay gravity pipeline to outfall D001, a 15-inch diameter vitrified clay pipeline extending approximately 250 feet from the eastern shoreline and terminating with an upturned elbow and (2) a 5,000 foot, 16-inch diameter polyethylene force main to outfall D002, a 16-inch polyethylene pipeline extending approximately 250 feet from the eastern shoreline and terminating with an upturned elbow.

Latitude: 30° 14' 50" N Longitude: 81° 37' 13" W

See Attachment 1 for a map showing the location of the receiving waters and discharge location.

f.

Description of Effluent Discharges (as reported by applicant)

Outfall Serial Numbers D001 and D002:

Annual Average Daily Flow (MGD): 2.033

pH Range (Standard Units): 6.5 to 6.8 (Average Daily Value last year)

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg. (last year)	Lowest Monthly Avg.	Maximum Daily Value
CBOD <sub>5</sub> , mg/L	2.5	--	16.2
TSS, mg/L	6.7	--	50.7
Fecal Coliform, #/100 ml	16	--	68
TRC (for dechlorination), mg/L	0.01	--	0.03

2. PROPOSED EFFLUENT LIMITATIONS

Effluent limitations are based on the previous State Operation and Federal NPDES permits. The anti-backsliding provisions of .402(o)(1) of the Clean Water Act and 40CFR .122.44(1) have been followed.

Outfall Serial Numbers D001 and D002:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD (Interim)	Maximum	2.25			
CBOD <sub>5</sub> , mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	<200	--	--	<800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.5 to 8.5			
Dissolved Oxygen, mg/L	Minimum	--	--	--	Report
Whole Effluent Toxicity	See discussion below.				

The Permittee shall conduct a 96-hour acute static toxicity tests using the Mysidopsis bahia (mysid or possum shrimp) and a 96-hour acute static-renewal toxicity tests using the Menidia beryllina (tidewater silverside) using effluent salinity adjusted to 20 ppt for each test species. All tests will be conducted on four separate grab samples collected at evenly spaced (6-hour) intervals over a 24-hour period and used in four separate tests in order to account for variations in effluent quality. Results of the four tests are not to be combined or averaged, but reported separately. The toxicity tests specified above shall be conducted using a control (0% effluent) and test concentration of 100% final effluent. An LC<sub>50</sub> of 100% or less in a test of 96 hours duration or less will constitute a violation of Florida Administrative Code (FAC) and the terms of this permit.

The limits for TSS have been changed to reflect secondary treatment standards as requested by the Permittee. The former CBOD<sub>5</sub> and total suspended solids limitations were established based on an Antidegradation Response provided with an application for the relocation of the Royal Lakes outfall to the St. Johns River. At that time, the justification for the new Royal Lakes discharge was based on the combined loading that represented a level previously permitted for the San Jose WWTP.

The final permit may be opened and the effluent limits modified if the results of the on-going Total Mass Design Loading (TMDL) study for the St. Johns River show different limits are more appropriate.

3. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Parts I.A. and I.B. provisions.

Outfalls D001 and D002:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub>	Annual Average	62-650 and 62-302.300 FAC
	Monthly Average	62-650 and 62-302.300 FAC
	Weekly Average	62-650 and 62-302.300 FAC
	Single Sample Max.	62-650 and 62-302.300 FAC
TSS	Annual Average	62-600.420(1)(b)2. & .740(1)(b)4. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
Fecal Coliform	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC
	Single Sample Max.	62-600.440(4)(c)4. FAC
pH	Minimum and Maximum	62-302.530 FAC
TRC (for disinfection)	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity	Single Sample Max.	62-302.500(1)(e), FAC
Dissolved Oxygen	Report	62-302.530(31) FAC
Nutrients	Report	62-302.530(48)(a) & (b) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-650	11-27-89
62-699	05-20-92

B. CFR refers to various portions of the Code of Federal Regulations, Title 40

C. BPJ refers to Best Professional Judgment

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
CBOD <sub>5</sub>	Monitor & Report	62-601.300(1) FAC
TSS	Monitor & Report	62-601.300(1) FAC

The following were used as the basis of the permit conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective dates of FAC Rule Chapters cited in the table are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-600	06-08-93
62-601	05-31-93

4. RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: Class B

Proposed method of residuals use or disposal: Land application

The current Agricultural Use Plan for this facility identifies residuals land application on the following sites:

Site Name	Application Area (Acres)	Site Location	
		City	County
Cope Farm	134.4	Jacksonville	Duval
Higgenbottom	263	Jacksonville	Duval

See the table below for the rationale for the Part II.A. residuals limits and monitoring requirements.

Parameter		Basis for Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC
Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC
Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-640	03-01-91

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

There are no industrial pretreatment requirements for this facility.

6. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

There are no requested variances or alternatives to the required standards.

7. COMPLIANCE SCHEDULE AND EFFECTIVE DATE OF PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

The only compliance schedule is for submittal of a Master Sewage Plan update to RESD.

8. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The current wastewater facility permit ( DO16-222480) expires on April 1, 1998 and contains the following effluent or reclaimed water limits:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	2.25	--	--	--
CBOD <sub>5</sub> , mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	10	12.5	15	20
Fecal Coliform, #/100 ml	Maximum	<200	--	--	<800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.05
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.5 to 8.5			
Whole Effluent Toxicity	See discussion below.				

The whole effluent toxicity testing requirements in the former NPDES permit required 48-hour acute static screening toxicity tests using the *Mysidopsis bahia* (mysid shrimp) and the *Menidia beryllina* (inland silverside). This testing was referenced in the former State operation permit as well. This condition has been changed to reflect current EPA policy and methodology as described in Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, EPA/600/4-90/027F (4th edition), as well as State policy regarding test duration.



9. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDegradation REQUIREMENTS

None

10. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal

11. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Phone Number - (904) 448-4330  
FAX Number - (904) 448-4366

12. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 11.

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

<u>Process Elements</u>	<u>Projected Date of Completion</u>
Effective Date of the Application:	September 29, 1995
Draft Permit to Applicant and EPA for Review:	December 18, 1995
Receive comments from Applicant on Draft Permit:	March 4, 1996
2nd Draft Permit to Applicant and EPA for Review:	April 10, 1996
Receive comments from Applicant on 2nd Draft Permit:	May 15, 1996
3rd Draft Permit to Applicant and EPA for Review:	July 16, 1996
Receive comments from Applicant on 3rd Draft Permit:	August 26, 1996
4th Draft Permit to Applicant and EPA for Review:	October 14, 1996
Receive comments from Applicant on 4th Draft Permit:	December 2, 1996
5th Draft Permit to Applicant and EPA for Review:	December 23, 1996
Begin/End Public Comment Period:	January 17 to February 17, 1997
Notice of Agency Action:	March 10, 1997
Final Department Action:	March 10, 1997

14. PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE

a. Public Comment Period

The Notice of Public Comment Period for this permit application and draft permit was advertised in the Florida News and Daily Record on January 17, 1997. No requests for a public meeting or written comments were received during the 30 day public comment period.

b. Public Meeting

Because no requests were received for a public meeting, the Department will not hold a public meeting for the draft permit.

c. Issuance of the Permit

Unless a request for a administrative hearing, or an extension of time to file a petition for an administrative hearing, as indicated in d. below, is granted, the Department will take final agency action by issuing the permit. If an administrative hearing is convened, final agency action will be based on the outcome of the hearing.

d. Administrative Hearing

A person whose substantial interests are affected by the Department's proposed permitting decision has the opportunity to petition for an administrative proceeding (hearing) to challenge the Department's decision in accordance with Section 120.57, F.S.

An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including the hearing officer's findings of fact, based on the evidence presented at the hearing. The Department will issue a final order, granting or denying the permit, based on the hearing officer's recommended order.

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57, F.S. The petition is to contain the following information:

- (1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

- (4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (6) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in the notice of agency action. Persons whose substantial interests will be affected by any decision of the Department on the application have the right to petition to become a party to the proceeding, regardless of their agreement or disagreement with the Department's proposed action indicated in the notice of agency action.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Muniipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023663  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: Monthly  
 GROUP: Domestic

FACILITY: San Jose WWTF  
 LOCATION: 7128 Balboa Road  
 Jacksonville, FL 32217  
 COUNTY: Duval

FACILITY ID: FL0023663  
 GMS ID NO.: 3116P01471  
 DISCHARGE POINT NUMBER: D001 & D002  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9153  
 GMS TEST SITE NO.: 3116X00023

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
STORET No. 50050 Y Mon. Site No. EFD-1	Permit Measurement	2.25 (Ann. Avg.)	mgd				Continuous	Meter or Instrume
Flow	Sample Measurement							
STORET No. 50050 1 Mon. Site No. EFD-1	Permit Measurement	Report (Mo. Avg.)	mgd				Continuous	Meter or Instrument
CBOD5	Sample Measurement							
STORET No. 80082 Y Mon. Site No. EFD-1	Permit Measurement			10.0 (Ann. Avg.)	mg/L		Weekly	16-hour FPC
CBOD5	Sample Measurement							
STORET No. 80082 1 Mon. Site No. EFD-1	Permit Measurement			12.5 (Mo. Avg.)	20.0 (Max.)	mg/L	Weekly	16-hour FPC
TSS	Sample Measurement							
STORET No. 00530 Y Mon. Site No. EFD-1	Permit Measurement			20.0 (Ann. Avg.)	mg/L		Weekly	16-hour FPC
TSS	Sample Measurement							
STORET No. 00530 1 Mon. Site No. EFD-1	Permit Measurement			30.0 (Mo. Avg.)	60.0 (Max.)	mg/L	Weekly	16-hour FPC
pH	Sample Measurement							
STORET No. 00406 1 Mon. Site No. EFD-1	Permit Measurement			6.5 (Min.)	8.5 (Max.)	S.U.	Continuous	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

### DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: San Jose WWTF

PERMIT NUMBER: FL0023663

DISCHARGE POINT NUMBER: D001&D002

WAFR SITE No.: 9153

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 Mon. Site No. EFD-1	Permit Measurement				200 (Ave. Avg.)				Weekly	Grab
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 11616 Mon. Site No. EFD-1	Permit Measurement				Report (Mo. Geo. Mean)	800 (Max.)			Weekly	Grab
Dissolved Oxygen	Sample Measurement									
STORET No. 00309 Mon. Site No. EFD-1	Permit Measurement					Report (Min.)			Daily, 7/week	Grab
Total Chlorine Residual (for Disinfection)	Sample Measurement									
STORET No. 50060 Mon. Site No. EJA-1	Permit Measurement					0.5 (Min.)			Continuous	Meter or fractranment
Total Chlorine Residual (for Dechlorination)	Sample Measurement									
STORET No. 50060 Mon. Site No. EFD-1	Permit Measurement					0.01 (Max.)			Daily, 7/week	Grab
CBOD5	Sample Measurement									
STORET No. 80082 Mon. Site No. JNF-1	Permit Measurement				Report (Mo. Ave.)				Weekly	16-hour FPC
TSS	Sample Measurement									
STORET No. 00530 Mon. Site No. INF-1	Permit Measurement				Report (Mo. Ave.)				Weekly	16-hour FPC

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Munipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023663  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: Toxicity  
 GROUP: Domestic

FACILITY: San Jose WWTF  
 LOCATION: 7128 Balboa Road  
 Jacksonville, FL 32217  
 COUNTY: Duval

FACILITY ID: FL0023663  
 GMS ID NO.: 3116P01471  
 DISCHARGE POINT NUMBER: D001 & D002  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9153  
 GMS TEST SITE NO.: 3116X00023

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (ROUTINE)	Sample Measurement							
STORET No. TAN3E P Mon.Site No. EFD-1	Permit Measurement			100 (Min)	Percent		Semi-Annual	4 Grabs/24 hours
LC50 STATRE 96HOUR ACUTE MYSID.BAHIA (DEFINITIVE)*	Sample Measurement							
STORET No. TAN3E Q Mon.Site No. EFD-1	Permit Measurement			100 (Min)	Percent		As Required	4 Grabs/24 hours
LC50 STATRE 96HOUR ACUTE MENIDIA (ROUTINE)	Sample Measurement							
STORET No. TAN6B P Mon.Site No. EFD-1	Permit Measurement			100 (Min)	Percent		Semi-Annual	4 Grabs/24 hours
LC50 STATRE 96HOUR ACUTE MENIDIA (DEFINITIVE)*	Sample Measurement							
STORET No. TAN6B Q Mon.Site No. EFD-1	Permit Measurement			100 (Min)	Percent		As Required	4 Grabs/24 hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida, Inc.  
 MAILING ADDRESS: Mr. Munipalli Sambamurthi, Vice President, Manager  
 1400 Millcoe Road  
 Jacksonville, Florida 32225

PERMIT NUMBER: FL0023663  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Major

To: \_\_\_\_\_  
 REPORT: \_\_\_\_\_  
 GROUP: Quarterly Domestic

FACILITY: San Jose WWTF  
 LOCATION: 7128 Balboa Road  
 Jacksonville, FL 32217  
 COUNTY: Duval

FACILITY ID: FL0023663  
 GMS ID NO.: 3116P01471  
 DISCHARGE POINT NUMBER: D001 & D002  
 PLANT SIZE/TREATMENT TYPE: IIB

WAFR SITE NO.: 9153  
 GMS TEST SITE NO.: 3116X00023

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. 00600 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
ORGANIC NITROGEN, TOTAL AS N	Sample Measurement							
STORET No. 00605 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
NITROGEN, NITRITE+NITRATE AS N	Sample Measurement							
STORET No. 00630 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
AMMONIA, TOTAL AS N	Sample Measurement							
STORET No. 00610 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
PHOSPHOROUS, TOTAL AS P	Sample Measurement							
STORET No. 00665 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
PHOSPHOROUS, ORTHO- AS P	Sample Measurement							
STORET No. 70507 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC
NITROGEN, TOTAL KJELDAHL	Sample Measurement							
STORET No. 00623 1 Mon. Site No. EFD-1	Permit Measurement			Report (Max)	mg/L		Once/quarter	16-hour FPC

DAILY SAMPLE RESULTS - PART B

Facility ID: FL0023663

Month/Year:

Days of the Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

**Plan Staffing:**  
 Day Shift Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_  
 Evening Shift Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_  
 Night Shift Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_  
 Lead Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wed Weather Discharge Activated: Yes \_\_\_ No \_\_\_ Not Applicable \_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_  
 \*Attach additional sheets necessary to list all certified operators necessary for required operations.



**INSTRUCTIONS FOR MONITORING REPORT**

**PART A - Discharge Monitoring Report**

One report shall be completed and submitted for each discharge point, outfall, or testing site listed in the permit. Use additional sheets if necessary. Mail to Department of Environmental Protection at the address shown on the first page of report.

**Permittee Name/Address:** Complete the name as shown on the face of the permit. Complete the mailing address. Place a note beside the mailing address if the address has changed within the past month.

**Facility/Location:** Complete the name of the facility and the address or location of the facility.

**Permit Number:** This is the number of the permit issued to the permittee which contains the monitoring requirements in this report.

**Monitoring Period:** This is the period that the data on this report represents.

**Limit:** This is blank if the data represents interim limits on a facility under construction. If the data represents final limits achieved after construction, the word FINAL will be here.

**Class Size/Group:** The facility classification is either major or minor and the group is either industrial or domestic.

**Facility ID:** This is the identification number of the facility which was assigned by the Department at the time the facility was constructed.

**Discharge Point Number:** This is the number in the permit assigned to the outfall, discharge point, or test site from which this data was collected. Complete one of these reports for each outfall or discharge point from your facility.

**Plant size/Treatment type:** If this facility is a domestic wastewater treatment facility, enter a one digit and one letter code to indicate the type of treatment and the plant size. First record the number from the chart below which represents the type of treatment provided by the facility. Then record the letter that indicates the permitted capacity (plant size) as shown on the chart below.

	Type of Treatment	Plant Size (mgd)			
		A	B	C	D
1	Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes (Nitrification alone is not considered nutrient removal.)	≥3.0	≥0.5 but <3.0	≥0.002 but <0.5	...
2	Activated Sludge or Combined Treatment systems that do not include removal processes	≥5.0	≥1.0 but <5.0	≥0.002 but <1.0	...
3	Activated Sludge operated in the extended aeration mode and oxidation ditches	≥8.0	≥2.0 but <8.0	≥0.025 but <2.0	≥0.002 but <0.025
4	Attached Growth Treatment systems (trickling filters or RBCs) that do not include nutrient removal processes	≥ 10.0	≥3.0 but <10.0	≥0.025 but <3.0	≥0.002 but <0.025

**Parameter:** This is the variable or substance which must be monitored.

**Sample Measurement:** The data which was collected and analyzed.

**Permit Requirement:** The limit from the permit for that parameter and measurement.

**Quantity or Loading:** The amount or mass of the parameter discharged during the reporting period in Average quantity discharged during the reporting period after adding each day of discharge, Maximum quantity discharged on the day with the highest amount, and the Unit of measurement (lbs, g, tons, etc.)

**Quality or Concentration:** The concentration of the parameter discharged during the reporting period in Minimum concentration during the reporting period, Average of all the measurements for the parameter during the reporting period, Maximum or highest concentration discharged during the reporting period, and the Unit of measurement (mg/L, ug/L, etc.)

**No. Ex.:** The number of sample measurements during the sampling period that exceeded the maximum (minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter zero.

**Frequency of Analysis:** The number of times the measurement is required to be made by the permit and the number of times the measurement was made.

**Sample Type:** The type of sample (grab, composite, continuous) required to be taken by the permit and the type that was taken.

**Certificate, Signature:** This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Date when the report is signed.

**Comment and Explanation:** Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation.

**PART B - DAILY SAMPLE RESULTS**

Complete one sheet for each outfall, discharge point, or test site where daily sampling is required by the permit. Record the results of daily monitoring for the parameters required to be sampled daily by your permit. Record the data in the units indicated. If there are no fecal coliforms detected, enter ND in the row labeled "fecal coliform." Use the blank rows as needed.

List the name, certificate number, and class of all state certified operators. Use additional sheets as necessary.

**PART B - DAILY SAMPLE RESULTS contd.**

Enter the type of effluent disposal or reclaimed water reuse (surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application, absorption field, underground injection).

If this plant does not have a limited wet weather discharge permitted under the provision of Rule 62-610.860, F.A.C., check not applicable. If the plant activated the wet weather discharge during the reporting month, check yes and attach PART C - LIMITED WET WEATHER DISCHARGE.

**PART C - LIMITED WET WEATHER DISCHARGE**

This part is applicable only to limited wet weather discharges from reuse systems describe in Rule 62-610.860, F.A.C. If applicable, this part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated. All information is to be typed or printed in ink.

**Facility ID:** This is the identification number assigned by the Department for the facility.

**Month/Year:** This is the period during which the data on this report was collected and analyzed.

**Rainfall Information:** Rainfall gauging station requires entry of the name and location of the station. Source of Climatological (normal rainfall) data is the source of the information required for Cumulative rainfall for the average rainfall year which is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. Cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this Part contains data.

**Date:** Enter the date on which the discharge occurred.

**Duration of Discharge:** Enter the number of hours, to the nearest 0.1 of an hour (0.1 = 6 min.) during each day of discharge that reclaimed water was actually discharged to surface waters.

**Gallons Discharged:** Enter the quantity in millions of gallons of reclaimed water discharged during the period shown in Duration of Discharge. Show the units as millions of gallons (mg), accurate to the nearest 0.01.

**Average Discharge Flow Rate:** Divide Gallons Discharged by Duration of Discharge. Record in million gallons per day (MGD).

**Average Upstream Flow Rate:** Enter the average flow rate in the receiving stream upstream from the point of discharge for the period shown in Duration of Discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

**Stream Dilution Factor:** Enter the stream dilution ratio accurate to the nearest 0.1. To calculate the factor, divide the Average Upstream Flow Rate by the Average Discharge Flow Rate.

**CBOD<sub>5</sub>:** Enter the average CBOD<sub>5</sub> of the reclaimed water discharged during the period shown in Duration of Discharge.

**TKN:** Enter the average TKN of the reclaimed water discharged during the period shown in Duration of Discharge.

**Reason for Discharge:** Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

**PART D - GROUNDWATER MONITORING REPORT**

This part is applicable only to groundwater monitoring wells. Type or print in ink the required data. All samples shall be collected and analyzed in accordance with Chapter 62-160, F.A.C. Laboratory reports shall be kept on file in the location indicated in your permit and made available for inspection upon request by the Department.

**Facility ID:** This is the identification number of the facility assigned by the Department.

**Test Site ID:** This is the identification number of the sampling site listed in your permit.

**Month/Year:** This is the period during which the data on this report was collected and analyzed. If the period is greater than one month, indicate beginning month to ending month.

**Well Type:** Indicate if the well being sampled is background, intermediate, compliance, or other. If other, explain in the comment section.

**Date Sample Obtained:** This is the date the sample was taken.

**Ground Water Class:** This is the classification of the ground water under Chapter 62-522, F.A.C.

**Parameter:** Analyze the parameters the permit requires. List any additional parameters from the permit which are not pre-listed here. If there are any parameters listed here which are not required by your permit, enter NR on that line.

**Storet Code:** Enter the Storet Code associated with the parameter.

**Sampling Method:** Describe the sampling method used.

**Samples Filtered:** Indicate whether the sample obtained was filtered (Y) or unfiltered (N).

**Preservatives Added:** State what preservatives were added to the sample.

**Analysis Method:** Indicate the analytical method used. Record the number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

**Analysis Result/Units:** Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Enter the units associated with the results of the analysis.

**Detection Limits/Units:** Record the detection limits and the units associated with them.

**Comments and Explanations:** Use this space to make any comments on or explanations of results which are unexpected.



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:** United Water Florida

<b>PERMIT/FACILITY NO.</b>	FL0024767
<b>ISSUANCE DATE</b>	December 15, 1997
<b>EXPIRATION DATE</b>	December 14, 2002
<b>APPLICATION NO.</b>	269271

**RESPONSIBLE AUTHORITY:**

Mr. M. Sambamurthi, P.E., Vice President  
1400 Millcoe Road  
Jacksonville, FL 32225 (904) 721-4610

**FACILITY:**

San Pablo WWTF  
14738 Marshview Drive, (Blue Water Drive)  
Duval County  
Jacksonville, FL Minor Facility  
Latitude: 30° 16' 45" N Longitude: 81° 26' 15" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

**TREATMENT FACILITIES:**

An existing 0.499 MGD annual average daily flow (AADF) permitted capacity extended aeration activated sludge domestic wastewater treatment plant providing secondary treatment consisting of influent screening, aeration (.750 MG volume), secondary clarification, aerobic digestion (62,500 gallon volume), chlorine disinfection, and dechlorination.

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system or comparable solids management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill. This permit allows for the re-rating of the facility from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection (UV) system consisting of 80 lamps in two vertical array units. The UV system is designed to meet basic level disinfection. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of discharge shall remain the same with:

PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT/FACILITY NO.: FL0024767  
EXPIRATION DATE: December 14, 2002  
APPLICATION NO.: 274524

### I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

#### A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to Pablo Creek (Intracoastal Waterway). Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow (Interim)	mgd	Maximum	0.64				Continuous	Recording flow meters and totalizers	EFD-1	See Cond.I.A.4
Flow (Final)	mgd	Maximum	0.75				Continuous	Recording flow meters and totalizers	EFD-1	See Cond.I.A.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	8-hour flow proportioned composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	8-hour flow proportioned composite	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I.A.5.						Weekly	Grab	EFD-1	
pH	std. units	Range				6.5 to 8.5	Five days per week	Grab or instrument	EFD-1	See Cond. I.A.3
Total Residual Chlorine (For Interim Disinfection)	mg/L	Minimum				0.5	Five days per week	Grab or instrument	EFA-1	See Cond.I.A.3
Total Residual Chlorine (For Interim Dechlorination)	mg/L	Maximum				0.01	Five days per week	Grab	EFD-1	
UV Disinfection (Final Disinfection)	--	Monitor					Seven days per week	Instrument	EFD-1	See Cond. I.A.6
Whole Effluent Toxicity	See Permit Condition I.A.11									
Oxygen, Dissolved (DO)	mg/L	Report					Five days per week	Grab	EFD-1	See Cond I.A.9

I.A.1 continued

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Total Recoverable Copper	ug/L	Report					Weekly	8-hour flow proportioned composite	EFD-1	
Nitrogen, Total Kjeldahl as N	mg/L as N	Maximum	4.0	5.0	6.0	8.0	Weekly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Nitrogen, Ammonia, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Organic Nitrogen, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Phosphorus, Total as P	mg/L as P	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Phosphorus in Total Orthophosphate as P	mg/L as P	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Nitrogen, Total as N	mg/L as N	Report	--	--	--	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
NO2+NO3-Nitrogen, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13

**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY NAME: United Water Florida San Pablo WWTF

PERMIT NUMBER: FL0024767

DISCHARGE POINT NUMBER: D001

WAFR SITE No.: 9635

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 Mon. Site No. EFD-1	Permit Measurement					Report MO GEO MEAN	800 MAX	#/100mL	Weekly	Grab
CHLORINE, TOTAL RESIDUAL (for dechlorination)	Sample Measurement									
STORET No. 50060 Mon. Site No. EFD-1	Permit Measurement						0.01 MAX	MGL	Daily	Meter/Total
CHLORINE, TOTAL RESIDUAL (for disinfection)	Sample Measurement									
STORET No. 50060 Mon. Site No. EPA-1	Permit Measurement				0.5 MIN			MGL	Continuous	Meter/Total
Nitrogen, Total Kjeldahl as N	Sample Measurement									
STORET No. 00625 Mon. Site No. EFD-1	Permit Measurement					4.0 ANN AVG		MGL as N	Weekly	8-hour Flow Composite
Nitrogen, Total Kjeldahl as N	Sample Measurement									
STORET No. 00625 Mon. Site No. EFD-1	Permit Measurement					6.0 MO AVG	8.0 MAX	MGL as N	Weekly	8-hour Flow Composite
Oxygen, Dissolved (DO)	Sample Measurement									
STORET No. 00300 Mon. Site No. EFD-1	Permit Measurement				REPORT MIN			MGL	Daily	Instrument
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement									
STORET No. 50050 Mon. Site No. EPA-1	Permit Measurement	0.640 ANN AVG		MGD					Continuous	Flow Meter
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement									
STORET No. 50040 Mon. Site No. EPA-1	Permit Measurement	Report MO AVG		MGD					Continuous	Flow Meter
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement									
STORET No. 80082 Mon. Site No. INF-1	Permit Measurement	Report MO AVG		MGL					Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement									
STORET No. 80530 Mon. Site No. INF-1	Permit Measurement	Report MO AVG		MGL					Weekly	8-hour Flow Composite
COPPER, Total Recoverable	Sample Measurement									
STORET No. 01042 Mon. Site No. EFD-1	Permit Measurement					REPORT MO AVG	REPORT MAX	ug/L	Weekly	8-hour Flow Composite

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida San Pablo  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225-4442  
 FACILITY: San Pablo WWTF  
 LOCATION: 14738 Marshview Drive  
 Jacksonville, Florida 32250  
 COUNTY: Duval

PERMIT NUMBER: FL0024767  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0024767  
 GMS ID NO.: 3116P01984  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IC

To: \_\_\_\_\_  
 REPORT: Monthly  
 GROUP: Domestic  
 GMS TEST SITE NO.: 3116X00031  
 WAFR SITE NO.: 9635

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 Mon. Site No. EFD-1	Y Permit Measurement					10.0 ANN.AVG		MGL		Weekly	8-hour Flow Composite
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 Mon. Site No. EFD-1	I Permit Measurement					12.5 MO.AVG	20.0 MAX	MGL		Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 Mon. Site No. EFD-1	Y Permit Measurement					20.0 ANN.AVG		MGL		Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 Mon. Site No. EFD-1	I Permit Measurement					30.0 MO.AVG	60.0 MAX	MGL		Weekly	8-hour Flow Composite
pH	Sample Measurement										
STORET No. 00400 Mon. Site No. EFD-1	I Permit Measurement				6.5 MIN		8.5 MAX	S.U.		Continuous	Instrument
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 Mon. Site No. EFD-1	Y Permit Measurement					200 ANN.AVG		#/100mL		Weekly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

the hearing officers findings of fact, based on the evidence presented at the hearing. The Department will issue a final order, granting or denying the permit, based on the hearing officer's recommended order.

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57, F.S. The petition is to contain the following information:

- (1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (6) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in the notice of agency action. Persons whose substantial interests will be affected by any decision of the Department on the application have the right to petition to become a party to the proceeding, regardless of their agreement or disagreement with the Department's proposed action indicated in the notice of agency action.



The comments or request for a public meeting shall contain the following information:

- (1) The commenter's name, address and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when notice of the draft permit was received;
- (3) A description of any changes the commenter proposes for the draft permit;
- (4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and
- (5) A request that a public meeting be scheduled (if applicable) including a statement of the nature of the issues proposed to be raised at the meeting.

b. Public Meeting

The Department will hold a public meeting if there is a significant degree of public interest in the draft permit or if it determines that useful information and data may be obtained thereby. Public notice of such a meeting shall be published by the applicant at least 30 days prior to the meeting.

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data at the meeting on the Department's proposed action.

c. Issuance of the Permit

The Department will make its decision regarding permit issuance after consideration of all written comments, including comments from the United States Environmental Protection Agency on surface water discharge aspects of the draft or proposed permit; the requirements of Chapter 403, F.S., and appropriate rules; and, if a public meeting is held, after consideration of all comments, statements and data presented at the public meeting. The Department will respond to all significant comments in writing. The Department's response to significant comments will be included in the administrative record of the permit and will be available for public inspection at the above named District office of the Department.

Unless a request for a administrative hearing, or an extension of time to file a petition for an administrative hearing, as indicated in d. below, is granted, the Department will take final agency action by issuing the permit or denying the permit application. If an administrative hearing is convened, final agency action will be based on the outcome of the hearing.

d. Administrative Hearing

A person whose substantial interests are affected by the Department's proposed permitting decision has the opportunity to petition for an administrative proceeding (hearing) to challenge the Department's decision in accordance with Section 120.57, F.S.

An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including

10. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 12.

11. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant for review.....July 25, 1997

Proposed Public Comment Period ..... Beginning: September 5, 1997  
Ending: October 5, 1997

Notice of Agency Action ..... December 15, 1997

Final Department Action..... December 15, 1997

12. PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE

a. Public Comment Period

The Department of Environmental Protection proposes to issue a wastewater facility permit to this applicant subject to the aforementioned reclaimed water or effluent limitations and conditions. This decision is tentative and open to comment from the public.

Interested persons are invited to submit written comments regarding permit issuance on the draft permit limitations and conditions to the following address:

Department of Environmental Protection, Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256  
Attn: Jeff Martin, P.E.

All comments received within 30 days following the date of public notice, pursuant to Rule 62-620.550, F.A.C., will be considered in the formulation of the final decision with regard to permit issuance.

Any interested person may submit written comments on the Department's proposed permitting decision or may submit a written request for a public meeting to the address specified above, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the above named District office of the Department within 30 days of receipt or publication of the public notice. Failure to submit comments or request a public meeting within this time period will constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

For Surface Water Discharge:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	0.499	--	--	--
CBOD <sub>5</sub> , mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	200	400	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.0 to 8.5			
TKN, mg/L	Maximum	4.0	5.0	6.0	8.0

7. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS; ANTIDegradation REQUIREMENTS

The applicant has submitted an Antidegradation report in accordance with Rules 62-302.300 and 62-4.242 F.A.C. The report reviews existing uses, State surface water quality standards and considers a public interest test. The public interest test includes a balancing test and an options review. The reports conclude that existing uses will be maintained, that surface water quality standards will not be violated and that the public interest test has been satisfied. The expansion from 0.499 MGD AADF to 0.750 MGD AADF has been approved. Through June 30, 1997, the following reports were submitted for United Water by Camp Dresser, McKee: capacity analysis report, benthic macroinvertebrate community assessment, and a level I WQBEL. The reuse feasibility report was submitted by CH2M Hill.

8. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

As this is an existing surface water discharger in the major category, the discharge has not and will not adversely affect any threatened or endangered species. The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal or as a result of the expanded discharge. The DEP reserves the right to require biomonitoring. The DEP will require nutrient monitoring of the discharge as well as stream monitoring at the outfall, D001.

9. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Jeff Martin, P.E.  
Department of Environmental Protection, Northeast District Office  
8725 Baymeadows Way, Suite 200 B  
Jacksonville, Florida 32256

Telephone No.: (904) 448-4330

Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC
Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

*(Include applicable Chapters.)*

<u>Chapter</u>	<u>Effective Date</u>
62-640	03-01-91

5. INDUSTRIAL PRETREATMENT REQUIREMENTS

The permittee/facility is not required to develop an industrial pretreatment program. The utility indicates that no categorical industries are identified in the service area.

6. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The current wastewater facility permit DO16-162840 was issued on July 19, 1990 and expired May 31, 1995. The consolidated permit had an expiration date of July 3, 1995. The permittee had submitted a permit renewal to EPA prior to the delegation date of May 1, 1995. The current permit contains the following effluent limits:

Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement						
Flow	Annual ADF	62-600.400(3)(b) FAC						
	3-Month ADF	62-600.400(3)(b) FAC						
	Monthly ADF	62-600.400(3)(b) FAC						
CBOD <sub>5</sub> (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC						
TSS (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC						
<p>The following were used as the basis of the permit conditions:</p> <p>A. FAC refers to various portions of the Florida Administrative Code</p> <p>The effective dates of FAC Rule Chapters cited in the table are as follows:</p> <table border="1"> <thead> <tr> <th>Chapter</th> <th>Effective Date</th> </tr> </thead> <tbody> <tr> <td>62-600</td> <td>06-08-93</td> </tr> <tr> <td>62-601</td> <td>05-31-93</td> </tr> </tbody> </table>			Chapter	Effective Date	62-600	06-08-93	62-601	05-31-93
Chapter	Effective Date							
62-600	06-08-93							
62-601	05-31-93							

4. RESIDUALS MANAGEMENT

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill.

Class of residuals stabilization to be provided: Class B

Proposed method of residuals use or disposal: Landfill is primary, land application as back-up.

The residuals are to be disposed by truck to the Trailridge Ridge Landfill in Duval County.

It is important for the permittee to contact the US EPA concerning any sludge requirements of the CFR 503 criteria and under the US EPA sludge only permit program.

It is recommended that the treated residuals have the following parameters analyzed for on a semi-annual basis to verify the metals, nutrient and solids content:

Parameter		Basis for Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC

<i>non-ocean discharge</i> Fecal Coliform (Basic disinfection)	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC
	Single Sample Max.	62-600.440(4)(c)4. FAC
pH (non-WOBEL)	Minimum and Maximum	62-600.445 FAC or Applicable Water Quality Standard from 62-302.530 FAC
TRC (for disinfection) (Basic disinfection)	Minimum	62-600.440(4)(b) FAC
TRC (for dechlorination)	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity	Reserve the right to monitor	Rule 62-302.530 FAC
Dissolved Oxygen (non-WOBEL)	Monitor and report	62-302.530(31) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

(Include applicable Chapters.)

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-550	09-07-94
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-650	11-27-89
62-699	05-20-92

B. FS refers to various portions of the Florida Statutes

C. CFR refers to various portions of the Code of Federal Regulations, Title 40

D. BPJ refers to Best Professional Judgment

See the table below for the rationale for the Part I.B provisions.

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD (interim)	Maximum	0.640	--	--	--
Flow, MGD (final)	Maximum	0.750	--	--	--
TKN, mg/L	Maximum	4.0	5.0	6.0	8.0
CBOD <sub>5</sub> , mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	200	400	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.5 to 8.5			
Dissolved Oxygen mg/L	Report				

The biomonitoring testing was not in the previously issued EPA NPDES permits and has not been required for this permit because this is a minor facility. The DEP has performed fifth year studies and analysis for pesticides and nutrients and satisfactory results were reported. However, the copper and silver parameters exceeded the standards for Class III marine waters as listed. The silver standard was revised in December 1995, and the facility sample was less than the standard, thus in compliance. Since this is marine waters it is not hardness based. Additional sampling for copper is underway and will require a report in one year to evaluate and address the copper issue if levels are beyond the standard. The permittee shall sample on a monthly basis to evaluate the copper levels present in the effluent and the receiving stream.

3. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Part I.A provisions.

Outfall D001 :

Parameter	Basis for Limit/Monitoring Requirement	
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub> (WQBEL, non-ocean discharge)	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i)
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TKN (WQBEL, non-ocean discharge)	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i)
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TSS (Secondary, TBEL,	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC

influent screening, aeration (.750 MG volume), secondary clarification, aerobic digestion (62,500 gallon volume), chlorine disinfection, and dechlorination.

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system, or comparable solids management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill. The facility has an existing 0.499 MGD annual average daily flow (AADF) permitted discharge to a canal to Pablo Creek (Class III waters).

This permit also allows for the expansion of the rated capacity of the discharge from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection system consisting of 80 lamps in two vertical array units. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of effluent discharge shall remain the same.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge:

Receiving Waters: Outfall D001: Pablo Creek, Intracoastal Waterway, Class III waters

Latitude: 30 ° 16 ' 45 "

Longitude: 81 ° 26 ' 15 "

See Attachment A for a map showing the location(s) of the receiving waters and discharge location(s).

f. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

Outfall Serial Number D001

AADF Flow (MGD): 0.335 MGD

pH Range (Standard Units): 6.0 to 7.4

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
BOD <sub>5</sub> , mg/L	1.82	3.5	5.6
TSS, mg/L	3.51	4.0	7.6
Fecal Coliform, #/100 ml	33	--	244
TRC (for disinfection), mg/L	-	0.5	-
TRC (for dechlorination), mg/L	0.003	0	0.01
TKN, mg/L	4.0		

2. PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

Outfall Serial Number D001:



PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT FACILITY I.D.: FL0024767  
APPLICATION NO.: 274524

**FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
WASTEWATER FACILITY PERMIT**

Permit Number: 269271  
FL0024767

Application Date: April 17, 1995

Additional Information: August 17, 1995  
October 16, 1995  
11/16/95, 4/22/96,  
8/21/96, 4/21/97  
6/30/97

Permit Writer: Jeff Martin, P.E.

Public Notice Date: Draft - July 25, 1997

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

United Water Florida  
1400 Millco Road  
Jacksonville, Florida 32225

Attn: M. Sambamurthi, P.E., Vice President

For:

San Pablo WWTP  
14738 Marshview Drive  
Jacksonville, Florida, Duval County

b. Type of Facility

Domestic Wastewater Treatment Plant  
Publicly -owned treatment works - Minor  
This facility has one domestic outfall.  
Standard Industrial Classification Code: 4952.

c. Facility Capacity

Existing Design Capacity:	0.499 MGD AADF
Proposed Increase in Design Capacity:	0.249 MGD AADF
Proposed Total Design Capacity:	0.750 MGD AADF

Existing Permitted Capacity:	0.499 MGD AADF
Proposed Increase in Permitted Capacity:	0.249 MGD AADF
Proposed Total Permitted Capacity:	0.750 MGD AADF

d. Description of Facilities

To operate an existing 0.499 MGD annual average daily flow (AADF) permitted capacity extended aeration activated sludge domestic wastewater treatment plant providing secondary treatment consisting of



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3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
4. Any unauthorized discharge to surface or ground waters.

- b. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

*[62-620.610(20), 11-29-94]*

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX. 20 of this permit. *[62-620.610(21), 11-29-94]*

22. Bypass Provisions.

- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for        bypass, unless the permittee affirmatively demonstrates that:

1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
3. The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.

- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.

- c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1. through 3. of this permit.

- d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit.

*[62-620.610(22), 11-29-94]*

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:

PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT/FACILITYNO.: FL0024767  
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[62-620.610(17), 11-29-94]

18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
  - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
  - e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

[62-620.610(18), 11-29-94]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19), 11-29-94]
20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
  - a. The following shall be included as information which must be reported within 24 hours under this condition:
    1. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
    2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,

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10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10), 11-29-94]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11), 11-29-94]
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12), 11-29-94]
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13), 11-29-94]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14), 11-29-94]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15), 11-29-94]
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16), 11-29-94]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.

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3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3), 11-29-94]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4), 11-29-94]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5), 11-29-94]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6), 11-29-94]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7), 11-29-94]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), 11-29-94]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620.610(9), 11-29-94]

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- c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in treatment plant discharges having temperatures above 40°C is prohibited. [62-604.130(4), 5-31-93]
7. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. [62-600.400(2)(b), 6-8-93]
  8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. [62-7.540, 12-10-85]
  9. The permittee shall provide adequate notice to the Department of the following:
    - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C. if it were directly discharging those pollutants; and
    - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

[62-620.625(2), 11-29-94]
  10. Prior to placing the Micronair system into operation or any of the proposed unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Domestic Wastewater Facilities. [62-620.630(2), 11-29-94]
  11. Within six months after the facility modification is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.630(7), 11-29-94]

#### IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1), 11-29-94]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2), 11-29-94]

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2. Prior to placing newly constructed facilities into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Domestic Wastewater Facilities. [62-620.630(2), 11-29-94]
3. Within six months after a facility is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.630(7), 11-29-94]

#### VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

Section Seven is not applicable to this facility

#### VIII. OTHER SPECIFIC CONDITIONS

1. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. [62-620.410(5), 11-26-94]
2. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. [62-620.620(1)(g), 11-29-94]
3. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. [62-600.410(8), 6-8-93]
4. The permittee shall not knowingly allow or cause the deliberate introduction of storm water in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of storm water into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited. [62-604.130(3), 5-31-93]
5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550, 5-31-93] [62-620.610(20), 11-29-94]
6. The acceptance by the operating authority of a collection/transmission system and/or by the permittee of a treatment plant of connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or



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#### Recordkeeping Requirements

5. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility:
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of the facility record drawings;
  - h. Copies of the licenses of the current certified operators; and
  - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

[62-620.350, 11-29-94][61E12-41.010(1)(e), 11-02-93]

#### VI. COMPLIANCE SCHEDULES AND SELF-IMPOSED IMPROVEMENT SCHEDULES

1. The permittee shall conduct and implement according to the following schedule:

	Implementation Step	Completion Date
1	Submit the notification of completion of the residuals treatment system	6/1/98
2	Submit a summary report and analysis of the results of copper sampling.	12/1/98
3	Submit the notification of completion of the UV disinfection system.	12/1/98
4	Perform and submit results for one additional benthic macroinvertebrate community assessment for the four sites as detailed in the March 10, 1997, ESI report.	12/1/2001

[62-620, 11-29-94]

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- c. Amount of residuals applied or delivered,
- d. Identification of specific areas of the site where residuals were applied and acreage of that area,
- e. Method of incorporation of residuals (if any),
- f. Water table level at time of application, and
- g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide: annual updates to the Agricultural Use Plan(s) to reflect any changes in domestic wastewater residuals characteristics or agricultural practices; summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis for that period, shall be submitted to the Northeast District Office by 6/1 of each year. [62-640.700(3)(e) and (p), 3-1-91]

### III. GROUND WATER MONITORING REQUIREMENTS

Section Three is not applicable to this facility

### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Section Four is not applicable to this facility

### V. OPERATION AND MAINTENANCE REQUIREMENTS

#### Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 6 hours/day for 5 days/week and one visit on each weekend day. The lead operator must be a Class C operator, or higher. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409B.3., a privately owned regional WWTP with a permitted capacity of less than 1.0 MGD must comply with the operator staffing requirements for a WWTP with a permitted capacity of greater than 1.0 MGD.

[62-699, 5-20-94] [62-620.630(3), 11-29-94] [62-699.310, 5-20-92] [62-610.462(2), 4-2-90]

2. A certified operator shall be on call during periods the plant is unattended. [62-699.311(1), 5-20-92]

#### Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

3. An updated capacity analysis report shall be submitted to the Department annually by May 1 of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
4. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1), 6-8-93]

Agricultural Sites

7. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
8. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
9. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
10. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
11. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
12. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
13. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facilities permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan(s) identifies residuals land spreading on the following sites: [62-620.330, 11-29-94]

Site Name	Application Area (Acres)	Site Location	
		City	County
M.G. Higgenbotham	700	Jacksonville	Duval
Kennedy	100	Jacksonville	Duval

14. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
15. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
16. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
17. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
  - a. Date of application of the residuals,
  - b. Location of the residuals application site,

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2. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
3. The domestic wastewater residuals for this facility are classified as Class B. The Department recognizes that this facility is constructing the Micronair Residuals Management system. The grit, sand and other inert material shall be taken to a permitted solid waste landfill. See specific condition VIII.8.
4. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
5. The permittee shall sample and analyze the residuals at least once every 6 months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre *
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

\* The annual application rate for cadmium shall not exceed 0.5 pounds/acre/year.

6. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

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2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. B. 1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
INF-1	Influent samples collected prior to any biological treatment

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4), 5-31-93]
4. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. [62-620.610(18), 11-29-94]
5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5), 5-31-93]
6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (DMR), Form 62-620.910(10), as attached to this permit. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection  
Wastewater Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

[62-620.610(18), 11-29-94][62-601.300(1),(2), and (3), 5-31-93]

7. Unless specified otherwise in this permit, all reports and notifications required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northeast District Office District Office at the address specified below:

Florida Department of Environmental Protection  
Northeast District Office District Office  
Florida Dept. of Environmental Protection 7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330

FAX Number - (904) 448-4366 All FAX copies shall be followed by original copies.

## II. RESIDUALS MANAGEMENT REQUIREMENTS

### Basic Management Requirements

1. The method of residuals use or disposal by this facility is land application. However, this facility will utilize the Micronair Residuals system (or equivalent solids management system) and the land application of residuals will be very infrequent.

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**B. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report					Weekly	8 hour flow proportioned composite	INF-1	See Cond. I.B.3
Total Suspended Solids	mg/L	Report					Weekly	8 hour flow proportioned composite	INF-1	See Cond. I.B.3

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- e. Total Kjeldahl nitrogen.
- f. Orthophosphorus.
- g. Total phosphorus.

An 8-hour flow proportioned composite sample shall be taken at least once every ninety (90) days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring report corresponding to the month in which the samples were taken. [62-302.530(48) FAC, 8-8-94]

13. The Permittee shall initiate regular monitoring of the segment of the Intracoastal Waterway (Pablo Creek) near the outfall, D001, for maintaining data on the impact of the discharge to the water quality of the surface water body. The monitoring sites are described as follows:

STORET SITE	LOCATION	LATITUDE/LONGITUDE
27010118	Upstream of D001, between channel marker 39 and 40	301600.7 / 812524.3
27010117	Downstream of D001, at channel marker 36	301647.8 / 812519.9

The permittee shall coordinate the specific site locations with the DEP, Northeast District office. The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, Total Phosphorous, Ortho-Phosphorus, Chlorophyll A, tide stage, velocity.

Metered parameters (DO, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. The pH parameter can be sampled only at the surface. Grab samples at mid depth for the other parameters is adequate. The sample shall be taken at the same time as the quarterly nutrient sampling event, as defined in I.A.1 above. The results for each quarterly instream sampling are due to be received at the Jacksonville DEP domestic waste section office by the following dates each year for the duration of this permit:

First quarter report	no later than	April	28
Second quarter report	no later than	July	28
Third quarter report	no later than	October	28
Fourth quarter report	no later than	January	28

[62-4.240(3)(c), 4-30-95]

10. In accordance with Rule 62-302.500(1)(d) FAC, the Department reserves the right to require a series of tests to evaluate whole effluent toxicity of the discharge from outfalls. If required, the Department shall provide notice to the permittee by issuing a permit modification.
11. Field testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL).

Parameter	Analytical Method	MDL (units)	PQL (units)
CBOD <sub>5</sub>	405.1	0.2 (mg/L)	1.0 (mg/L)
TKN	351.3	1.0 (mg/L)	1.0 (mg/L)
TSS	160.2	4.0 (mg/L)	4.0 (mg/L)
pH	150.1	0.10 (s.u.)	0.10 (s.u.)
Fecal Coliform	600/8-78-017	1/100 mL	2/100 mL
TRC (disinfection) or	330.1	0.01 (mg/L)	0.01 (mg/L)
TRC (disinfection) or	330.4	0.1 (mg/L)	0.1 (mg/L)
TRC (disinfection)	330.5	0.2 (mg/L)	0.2 (mg/L)
TRC (dechlorination)	330.1	0.01 (mg/L)	0.01 (mg/L)
Dissolved Oxygen or	360.1	0.10 (mg/L)	0.10 (mg/L)
Dissolved Oxygen	360.2	0.20 (mg/L)	0.20 (mg/L)
Copper, total recoverable	220.2	1.0 (ug/L)	5.0 (ug/L)
Nitrogen, Total	351.2 and 353.2	0.1 (mg/l)	0.2 (mg/l)
Phosphorus, Total	365.1	0.02 (mg/l)	0.05 (mg/l)
Ammonia, Total	350.1	0.02 (mg/l)	0.04 (mg/l)
Nitrate+Nitrite	353.2	0.05 (mg/l)	0.1 (mg/l)
Orthophosphorus	365.1	0.02 (mg/l)	0.05 (mg/l)
Organic Nitrogen	calculated	-	-

The MDLs and PQLs listed above shall constitute the minimum reporting levels for the duration of this permit. Equivalent methods are subject to approval by the Department for each effluent parameter. The Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those listed above. Equivalent methods are subject to approval by the Department for each effluent parameter. See permit specific condition number I.A.9 and general condition IX.18.. Unless otherwise specified, sample results shall be reported as follows:

- a) Results greater than or equal to the PQL shall be reported as the measured quantity.
- b) Results less than the PQL and greater than or equal to the MDL shall be reported as the PQL followed by the lab code "m" and shall be deemed equal to the MDL when necessary to calculate an average for that parameter.
- c) Results less than the MDL shall be reported as the MDL followed by the lab code "u". A value of one half the MDL or half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limit or monitoring requirement.

[62-4.246 FAC, 10-13-95]

12. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
- a. Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
  - b. Organic nitrogen.
  - c. Total nitrogen.
  - d. Total Ammonia.



2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-1	Sample point immediately after disinfection
EFD-1	Sample point immediately after dechlorination

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. Upon completion of the UV disinfection system, the permitted capacity shall be rated at 0.750 MGD AADF. See permit section VI. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. When more than 10 samples are taken, no more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. [62-600.440(4)(c), 6-8-93]
6. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. Upon completion of the ultraviolet disinfection (UV) system and approval by the Department, the permittee shall place the UV system into operation. Chlorine residual will not need to be monitored once the UV system is placed in operation. This UV system shall be monitored on a daily basis and the intensity and unit operation shall be verified. Operation and maintenance shall be performed on a regular basis in accordance with the manufacturer recommendations for an adequate factor of safety. Routine cleaning and bulb replacement practices shall be maintained. [62-600.440(4)(b), 6-8-93]
7. The wasteload allocation for this source is 170 lb. per day ultimate oxygen demand, as a maximum 30 day average limit. [62-620.320(9), 11-29-94] and [62-302.510(5), 2-27-95]
8. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. [Chapter 62-620.320(9) and 62-302.510(5), FAC]
9. In accordance with the dissolved oxygen (DO) standard of Chapter 62-302.530(31) FAC, for Class III marine waters, the DO shall be reported and measured in accordance with condition I.A.11. Florida water quality criteria and standards shall not be violated as a result of the discharge at monitoring locations EFD-1. [62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]

DAILY SAMPLE RESULTS - PART B

Facility ID:  
Month/Year:

Days of the Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

Plan Staffing:  
 Day Shift Operator      Class \_\_\_\_\_ Certificate No. \_\_\_\_\_ Name: \_\_\_\_\_  
 Evening Shift Operator      Class \_\_\_\_\_ Certificate No. \_\_\_\_\_ Name: \_\_\_\_\_  
 Night Shift Operator      Class \_\_\_\_\_ Certificate No. \_\_\_\_\_ Name: \_\_\_\_\_  
 Lead Operator      Class \_\_\_\_\_ Certificate No. \_\_\_\_\_ Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wet Weather Discharge Activated: Yes \_\_\_\_\_ No \_\_\_\_\_ Not Applicable \_\_\_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_  
 \*Attach additional sheets necessary to list all certified operators necessary for required operations.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida San Pablo  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225-4442  
 FACILITY: San Pablo WWTF  
 LOCATION: 14738 Marshview Drive  
 Jacksonville, Florida 32250  
 COUNTY: Duval

PERMIT NUMBER: FL0024767  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0024767  
 GMS ID NO.: 3116P01984  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IC

To: \_\_\_\_\_  
 REPORT: QUARTERLY  
 GROUP: Domestic  
 GMS TEST SITE NO.: 3116X00031  
 WAFR SITE NO.: 9635

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
TOTAL NITROGEN	Sample Measurement									
Storet No. 00600 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite
ORGANIC NITROGEN	Sample Measurement									
Storet No. 00605 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite
NITRITE + NITRATE NITROGEN	Sample Measurement									
Storet No. 00630 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite
TOTAL AMMONIA	Sample Measurement									
Storet No. 00610 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite
TOTAL KJELDAHL NITROGEN (TKN)	Sample Measurement									
Storet No. 00625 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite
TOTAL PHOSPHOROUS	Sample Measurement									
Storet No. 00665 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite
ORTHO PHOSPHOROUS	Sample Measurement									
Storet No. 00671 1 Mon. Site No. EFD-1	Permit Requirement						Report	mg/L	Quarterly	8 hour flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

QUARTERLY

PART A Continued

FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010118 DISCHARGE POINT #: D001 WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
CBOD <sub>5</sub> Storet No. 80082 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORGANIC NITROGEN Storet No. 00605 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
NITRITE + NITRATE NITROGEN Storet No. 00630 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL AMMONIA Storet No. 00610 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL KJELDAHL NITROGEN (TKN) Storet No. 00625 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
Chlorophyll A Storet No. 32230 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
VELOCITY Storet No. 46570 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	FT/S		Quarterly
TOTAL PHOSPHOROUS Storet No. 00665 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORTHO PHOSPHOROUS Storet No. 00674 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A continued

FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010118 DISCHARGE POINT #: D001 WAFR Site No.: 9635  
 Please read Instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
Dissolved Oxygen (mid depth) Storet No. 00300 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement				REPORT			mg/L	Quarterly	Grab
Temperature °C (mid depth) Storet No. 00010 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	Std. units	Quarterly	Grab
SALINITY Storet No. 00480 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	Degrees C	Quarterly	Grab
TIDE STAGE Storet No. 00067 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement				REPORT			Degrees C	Quarterly	Grab
pH Storet No. 00100 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	Degrees C	Quarterly	Grab
Conductivity Storet No. 82561 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	umolims	Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

QUARTERLY

PART A Continued

FACILITY NAME: United Water Florida WWTF

FACILITY ID: FL002-4767

STORET STATION: 27010117

DISCHARGE POINT #: D001

WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
CBOD <sub>5</sub> Storet No. 80082 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORGANIC NITROGEN Storet No. 00605 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
NITRITE + NITRATE NITROGEN Storet No. 00630 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL AMMONIA Storet No. 00610 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL KJELDAHL NITROGEN (TKN) Storet No. 00625 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
Chlorophyll A Storet No. 32230 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
VELOCITY Storet No. 46570 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT			Quarterly
TOTAL PHOSPHOROUS Storet No. 00665 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORTHO PHOSPHOROUS Storet No. 00674 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A continued

FACILITY NAME: United Water Florida San Pablo WWTF

FACILITY ID: FL0024767 STORET STATION: 27010117 DISCHARGE POINT #: D001 WAER Site No.: 9635

Please read instructions before completing this form.

Parameter	Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
	Avg.	Max.	Units	Min./Other	Avg.	Max.			
Dissolved Oxygen - (mid depth)									
Storet No. 00300 6 Mon. Site No. SWD-1				REPORT				Quarterly	Grab
TEMPERATURE °C (mid depth)									
Storet No. 00010 6 Mon. Site No. SWD-1					REPORT			Quarterly	Grab
SALINITY									
Storet No. 00480 5 Mon. Site No. SWU-1					REPORT			Quarterly	Grab
TIDE STAGE									
Storet No. 00067 5 Mon. Site No. SWU-1				REPORT				Quarterly	Grab
pH									
Storet No. 00400 6 Mon. Site No. SWD-1					REPORT			Quarterly	Grab
Conductivity									
Storet No. 82361 6 Mon. Site No. SWD-1					REPORT			Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (reference all attachments here):



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

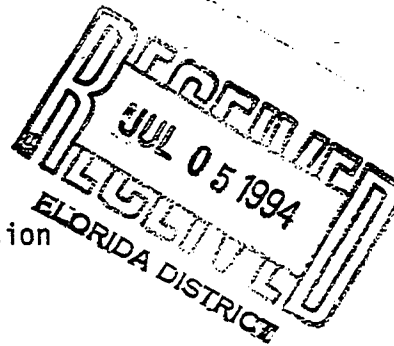
Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

June 27, 1994

### CERTIFIED MAIL - RETURN RECEIPT

Philip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225



**Subject: San Jose Wastewater Facility (WWF):  
Application for Operation Permit  
Duval County - Domestic Waste**

Dear Mr. Heil:

Enclosed is Operation Permit No. D016-246674, for the subject wastewater facility, issued pursuant to Section 403.087, Florida Statutes (FS).

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

Your special attention is called to the following Specific Conditions of the attached permit which are listed below:

11. Comply with WWF monitoring requirements and effluent limitations.
12. The subject WWF shall be staffed by a State-licensed operator for no less than eight (8) hours per day and for no less than seven (7) days per week.
13. The Agricultural Use Plan shall be updated at least once every 365 days.
14. Domestic wastewater residuals shall be sampled and tested at least once every ninety (90) days.
15. The subject WWF shall be required to comply with any Department water quality based effluent limitation (WQBEL) analysis of the St. Johns River.
16. The Department will modify this permit at a later date to require whole effluent toxicity testing.
17. Effluent shall be sampled and tested for the listed parameters no less than once every thirty (30) days.
18. The Master Plan For Regional Sewerage Development shall be updated no less than once every two (2) years.



19. Continue planning for implementation of a reclaimed water reuse system.
20. Implement corrective measures in the Operation and Maintenance Performance Report.
21. A permit application shall be submitted no later than sixty (60) days prior to the expiration date of this permit.

A person whose substantial interests are affected by this Permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the permit holder's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by an decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this Notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Florida Administrative Code (FAC) Rule 28-5.207.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.


Any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in this Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

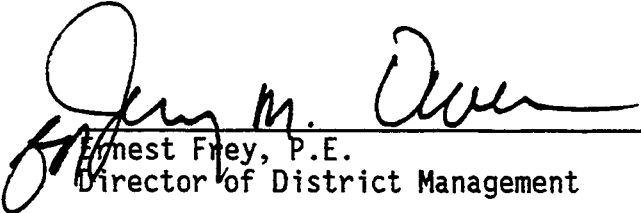
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed on this 27th day of June, 1994 in  
Jacksonville,  
Florida.

CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY AND  
ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
John K. Flowe, P.E.  
Division Chief

  
\_\_\_\_\_  
Ernest Frey, P.E.  
Director of District Management

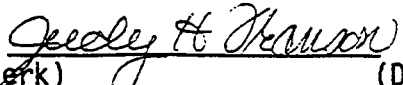
Copies furnished to:

*CJH*  
Jacksonville Water Quality Division  
Mr. Joe Doker, DEP  
Mr. Peter McGarry, U.S.EPA  
Dr. David York, DEP

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on July 1, 1994 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

  
\_\_\_\_\_  
(Clerk) 7/1/94  
(Date)



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities  
Corporation  
1400 Millcoe Road  
Jacksonville, Florida 32225

I.D. NUMBER: 3116P01471  
PERMIT/CERT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999  
COUNTY: Duval  
LAT/LONG: 30°14'50"N/81°37'30"W  
SECTION/TOWNSHIP/RANGE: 43/3S/27E  
PROJECT: San Jose Wastewater  
Facility (WWF)

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the operation of a 2.25 MGD complete mix wastewater facility with an influent screen, gravity grit removal system, aeration basins, secondary clarification, chlorination and sulfur dioxide (SO<sub>2</sub>) dechlorination. Dechlorinated effluent is discharged directly into the St. Johns River through a gravity pipe and through a force main. Domestic wastewater residuals (1) are stabilized by aeration, gravity thickening and aerobic digestion and (2) are disposed of by land application at an agricultural site. Chlorinated reclaimed water is reused on site for nonpotable water demands. This facility services the San Jose Wastewater Facility Certificated Area of Service.

The subject wastewater facility is located at 7128 Balboa Road, Jacksonville, Duval County, Florida.

This permit is issued in accordance with the application received March 4, 1994 and completed by additional information received May 31, 1994.

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116PO.7/1  
PERMIT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: .16P01471  
PERMIT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**GENERAL CONDITIONS:**

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
- a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
- a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in FAC Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116P01 71  
PERMIT NUMBER: D016- 3674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**GENERAL CONDITIONS:**

11. This permit is transferable only upon Department approval in accordance with FAC Rules 17-4.120 and 17-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the analytical techniques or methods used;
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116P01471  
PERMIT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**SPECIFIC CONDITIONS:**

1. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operating report (MOR) on the operation of the subject wastewater facility. Such report shall also contain information on the daily quantities of domestic wastewater residuals generated at the source, type and degree of treatment and the site of ultimate disposal. Report using Department of Environmental Regulation (DER) or Department of Environmental Protection (DEP) Form 17-601.900(1) shall be submitted on a monthly basis and must be received by the Department no later than the twenty eighth (28th) day of the month following the month of operation. The test site identification number for this facility is 3116X00023 and will be entered under Part II, Item (10) of the MOR. For the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Protection (DEP), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RESD) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. Domestic wastewater residuals or other solid waste shall not be discharged into waters either directly or indirectly and the same shall be disposed of in a manner approved by DEP.
3. The effluent from this source shall be adequately chlorinated at all times so as to provide a basic level of disinfection as required by FAC Rule 17-600.440(4).
4. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of FAC Chapter 17-602. Sampling and monitoring of this facility will be in accordance with FAC Chapter 17-601.
5. The discharge authorized by this permit shall be consistent at all times with the water quality standards set forth in FAC Chapters 17-301 and 17-302.
6. No additional connection shall be made to this facility without prior approval of the Department.
7. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with FAC Rule 17-600.720(2).
9. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
10. Domestic wastewater residuals shall be disposed of in accordance with FAC Chapter 17-640. All domestic wastewater residuals applied to the land shall be treated as required by FAC Rule 17-640.600. Domestic wastewater residuals shall be disposed of in accordance with FAC Rule 17-640.700(3) or FAC Rule 17-640.700(4).

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116P0147.  
PERMIT/CERTIFICATION: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**SPECIFIC CONDITIONS:**

11. The monitoring requirements and effluent limitations for this WWF are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
FLOW	2.25 MGD(b)	Continuous	(d)	Effluent
CBOD <sub>5</sub>	(a)	Weekly	Composite (g)	Influent & Effluent (e)
TSS	(a)	Weekly	Composite (g)	Influent & Effluent (e)
pH units	6.5 to 8.5	Continuous	(h)	Effluent (e)
Chlorine Residual	Min. 0.5 mg/l(i) Max. 0.01 mg/l(j)	Continuous Daily, 7/Week	(h) Grab (c)	Effluent (f) Effluent (e)
Fecal Coliform	Avg. ≤200/100 ml Max. 800/100 ml	Weekly	Grab (c)	Effluent (e)

(a) Effluent Limits, Maximum (mg/l)

	Annual average	Monthly average	Weekly average	One time grab max.
CBOD <sub>5</sub>	10	12.5	15	20
TSS	10	12.5	15	20

- (b) Annual average daily flow shall not exceed value shown.
- (c) Grab samples for measuring effluent total residual chlorine (TRC) content (following dechlorination) and fecal coliform shall be collected during periods of minimal wastewater facility pollutant removal efficiencies, or maximum organic loading in the effluent.
- (d) Effluent flow rate is measured by transponders located at the fixed weir in the chlorine contact chamber. The transponders send signals to a recording flow meter and totalizer.
- (e) Effluent shall be sampled for these parameters following dechlorination and prior to discharge to surface waters.
- (f) Effluent shall be sampled for this parameter at the point of (or following) discharge from the chlorine contact chamber and prior to dechlorination.
- (g) A sixteen (16)-hour, flow proportioned composite sample is required.
- (h) Effluent TRC content (following chlorination) and pH shall be measured on a continuous basis. However, hourly measurements taken during the entire period of required operator attendance may be substituted for continuous measurement.
- (i) Effluent TRC content following chlorination shall not fall below 0.5 mg/l, in accordance with the disinfection requirements of FAC Rule 17-600.440(4)(b).
- (j) Effluent TRC content following dechlorination shall not exceed 0.01 mg/l, as required by FAC Rule 17-302.530(19). Note that effluent chlorination requirements and dechlorination requirements shall be met independently of each other.



PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116P01471  
PERMIT/CERT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**SPECIFIC CONDITIONS:**

12. The subject WWF shall be staffed by a State-licensed Class C (or higher) operator for no less than eight (8) hours per day and for no less than seven (7) days per week. The lead/chief operator shall be a State-licensed Class B (or higher) operator. The Department permits eight (8) hour per day operator attendance instead of the sixteen (16) hour per day operator attendance requirement specified in FAC Rule 17-699.310(3)(b) for a Category II, Class B Treatment Process) because Jacksonville Suburban Utilities Corporation (JSUC) has provided reasonable assurance that its Supervisory Control and Data Acquisition (SCADA) System complies with the requirements of FAC Rule 17-699.311(3).

The Department reserves the right to require JSUC to resume sixteen (16)-hour per day operator attendance [as specified in FAC Rule 17-699.310(3)(b)] if the subject WWF does not maintain compliance with the effluent limitations in Permit Specific Condition No. 11.

13. The Agricultural Use Plan shall be updated at least once every 365 days as required by FAC Rule 17-640.500(1)(f). The updated Agricultural Use Plan shall be submitted (to WQD and DEP) using DER or DEP Form 17-640.900(1) and shall be accompanied by the following information:
- A summary of the total domestic wastewater residuals, nitrogen and heavy metals applied on an annual basis.
  - The cumulative heavy metals applied by all other wastewater facilities that utilize the same portion of the land application site (as the subject WWF) for disposal of domestic wastewater residuals.
  - The pH of the residuals/soils mixture for the land application site.
  - The above-specified information shall be current to within forty five (45) days of its date of submittal.

Pursuant to FAC Rule 17-640.700(3)(p), records of application areas and application rates of domestic wastewater residuals must be maintained by the Permittee and must be available for inspection upon request by DEP and WQD. Records shall be kept on DER or DEP Form 17-640.900(3)[or by an approved method which provides equivalent detail] and shall include information specified in FAC Rule 17-640.700(3)(p).

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I.D. NUMBER: 3116P01471  
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**SPECIFIC CONDITIONS:**

In order to conform with U.S. Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 503 Sludge Regulations, it is anticipated that proposed revisions of FAC Chapter 17-640 will require Class A or Class B stabilization prior to land application of all domestic wastewater residuals. Should this rule revision become effective, Class A or Class B stabilization shall be required and must be demonstrated in any subsequent updated agricultural use plan. A construction permit will be required for any modification of domestic wastewater residuals handling equipment necessary to effect Class A or Class B stabilization.

14. The domestic wastewater residuals from the subject WWF shall be sampled and tested after final treatment but prior to utilization or disposal in accordance with the requirements of FAC Rule 17-640.700. Domestic wastewater residuals shall be sampled and tested at least once during any rolling ninety (90)-day period for the following parameters:

Total Nitrogen	- %	dry weight
Total Phosphorus	- %	dry weight
Total Potassium	- %	dry weight
Total Solids	- %	dry weight
Cadimum mg/kg		dry weight
Copper mg/kg		dry weight
Lead mg/kg		dry weight
Nickel mg/kg		dry weight

No later than sixty (60) days following the completion of all sampling and testing, a copy of the test analyses shall be submitted to WQD. The test analyses shall be submitted on the stationery of the testing laboratory and contain the signature(s) of the person(s) performing tests.

15. The Department is conducting Water Quality Based Effluent Limitation (WQBEL) studies for certain parts of Duval County. If a WQBEL is developed for this facility which requires the effluent limits to be revised, the Permittee shall be notified in writing by the Department. After notification, the Permittee shall be allowed (a) 90 days to bring the subject facility into compliance with the revised effluent limits or (b) 60 days to submit an application for (1) a construction permit which will bring the facility into compliance within 180 days of construction permit issue date or (2) a temporary operation permit with a compliance schedule or (3) administrative relief pursuant to FAC Rules 17-4.23 and 17-4.244. Department studies do not relieve the applicant of specific responsibilities in rule or elsewhere in this permit.

The Department will modify this permit at a later date to require ambient water quality monitoring per FAC Rule 17-650.500.

PERMITTEE:  
Philip Heil  
San Jose  
WWF

I.D. NUMBER: 3116P01471  
PERMIT/CERT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**SPECIFIC CONDITIONS:**

16. The Permittee shall conduct whole effluent toxicity testing in accordance with the current U.S. Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Permit for this facility. The Department will modify this Specific Condition to require whole effluent toxicity testing in accordance with any Department rule changes. Any permit modification will include appropriate toxicity test procedures and species. Any permit modification will include appropriate procedures for appeal and afford a reasonable period of time for achieving compliance with effluent toxicity testing requirements.
17. No later than thirty (30) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
  - a. Organic nitrogen.
  - b. Nitrite nitrogen ( $\text{NO}_2\text{-N}$ ) and nitrate nitrogen ( $\text{NO}_3\text{-N}$ ).
  - c. Total ammonia ( $\text{NH}_3\text{-N}$  and  $\text{NH}_4^+\text{-N}$ ).
  - d. Total Kjeldahl nitrogen.
  - e. Total phosphorus.
  - f. Orthophosphorus.
  - g. Total nitrogen.

Sixteen (16)-hour, flow-proportioned composite samples shall be taken; sampling and testing shall continue at least once every thirty (30) days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/l) shall be submitted to the Department with the monthly operating report corresponding to the month in which the samples were taken. Effluent samples shall be taken following dechlorination and prior to discharge into the St. Johns River.

18. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409 C.2., the Master Plan For Regional Sewerage Development for the San Jose Wastewater Facility Certificated Area of Service shall be updated no less than once every two (2) years and submitted to RESD Water Quality Division. The updated Master Plan shall address the requirements of EPB Rule 3.409 C.3.
19. JSUC shall continue planning necessary for the design, construction and implementation of a reclaimed water reuse system for the San Jose WWF. Negotiations among JSUC, the St. Johns River Water Management District (SJRWMD) and all potential acceptors of reclaimed water shall continue. If negotiations result in JSUC securing an agreement with one or more acceptors of reclaimed water, JSUC shall comply with the following schedule:

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116P01471  
PERMIT/CERT NUMBER: D016-246674  
DATE OF ISSUE: June 27, 1994  
EXPIRATION DATE: April 15, 1999

**SPECIFIC CONDITIONS:**

- a. JSUC shall submit a written request to the Florida Public Service Commission (PSC) for a limited proceeding to establish rates to cover the costs of reclaimed water reuse program.
- b. Immediately following approval by PSC, JSUC shall begin designing the reclaimed water reuse system and no later than 120 days following commencement of the reclaimed water reuse system design, JSUC shall submit a construction application in accordance with the Department's Administrative Procedures. The application shall include State and local processing fees and all necessary documents, drawings and reports.
- c. In the event a contract cannot be negotiated, JSUC shall provide a written explanation of the reasons to DEP and WQD. The Department will make the final decision whether JSUC meets the reuse consideration regarding (1) the beginning and completion of each phase of the schedule outlined in Permit Specific Condition No. 1 and (2) any delays in implementing the schedule.

The Department will not hold JSUC accountable for any delays in implementing a reclaimed water reuse program caused by other parties or events that are beyond the control of JSUC.

20. The Permittee shall ensure that the measures and recommendations contained in the Operation and Maintenance Performance Report are implemented as necessary to provide reasonable assurance that the subject WWF maintains compliance with permit requirements.

PERMITTEE:  
Philip Heil  
San Jose WWF

I.D. NUMBER: 3116P01471  
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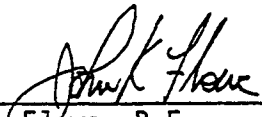
**SPECIFIC CONDITIONS:**


21. No later than sixty (60) days prior to the expiration date of this Permit, the Permittee shall submit an application for an operation permit or a temporary operation permit (for the subject WWF). The application shall be submitted in accordance with the Administrative Procedures of the Department and shall include (1) State and local processing fees and (2) all necessary supplementary documents, plans, studies and reports.

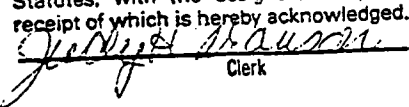
Issued this 27th day of June 1994

*CJH*  
CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

*JM*  
STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
John K. Flowe, P.E.  
Division Chief

  
\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director of District Management

**FILING AND ACKNOWLEDGEMENT**  
FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.  
  
\_\_\_\_\_  
Clerk Date 7/1/94



# Department of Environmental Protection

*Took file  
Copy to  
Hall*

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wecherell  
Secretary

**RECEIVED**

*San Pablo*

DEC 19 1997

## CERTIFIED MAIL-RETURN RECEIPT

**UNITED WATER FLORIDA**

December 15, 1997

In the Matter of an Application  
for Permit by:

DEP File No. 269271  
Duval County

Mr. M. Sambamurthi, P.E., Vice President  
— United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225-4442

## NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0024767 to operate a domestic wastewater treatment facility issued under section(s) [403] of the Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

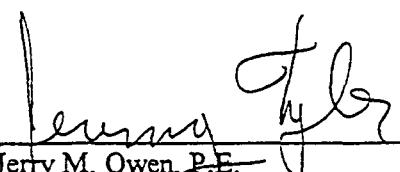
As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57 for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within fourteen days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under sections 120.569 and 120.57. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

This action is final and effective on the date filed with the Clerk of the Department unless a petition (or request for mediation) is filed in accordance with the above. Upon the timely filing of a petition (or request for mediation) this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*JPW*  
  
\_\_\_\_\_  
Jerry M. Owen, P.E.  
Water Facilities Administrator  
7825 Baymeadows Way, Suite, B200  
Jacksonville, FL 32256

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on 12/18/99 to the listed persons.

*JM*  
Copies furnished to:  
Nam Huynh, P.E., RESD-WQD  
Don Maurer, P.E., CDM  
Jan Mandrup-Poulsen

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*[Signature]*  
\_\_\_\_\_  
Clerk

12/18/99  
Date





# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE: United Water Florida

PERMIT/FACILITY NO.	FL0024767
ISSUANCE DATE	December 15, 1997
EXPIRATION DATE	December 14, 2002
APPLICATION NO.	269271

**RESPONSIBLE AUTHORITY:**

Mr. M. Sambamurthi, P.E., Vice President  
1400 Millcoe Road  
Jacksonville, FL 32225 (904) 721-4610

**FACILITY:**

San Pablo WWTF  
14738 Marshview Drive, (Blue Water Drive)  
Duval County  
Jacksonville, FL Minor Facility  
Latitude: 30° 16' 45" N Longitude: 81° 26' 15" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

**TREATMENT FACILITIES:**

An existing 0.499 MGD annual average daily flow (AADF) permitted capacity extended aeration activated sludge domestic wastewater treatment plant providing secondary treatment consisting of influent screening, aeration (.750 MG volume), secondary clarification, aerobic digestion (62,500 gallon volume), chlorine disinfection, and dechlorination.

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system or comparable solids management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill. This permit allows for the re-rating of the facility from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection (UV) system consisting of 80 lamps in two vertical array units. The UV system is designed to meet basic level disinfection. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of discharge shall remain the same with:

PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT/FACILITY NO.: FL0024767  
EXPIRATION DATE: December 14, 2002  
APPLICATION NO.: 274524

**EFFLUENT DISPOSAL:**

**Surface Water Discharge:** An existing 0.499 MGD annual average daily flow (AADF) permitted discharge to a canal to Pablo Creek (Class III marine waters) at D001 (Intracoastal Waterway). The D001 (Intracoastal Waterway) outfall line is approximately 243 feet in length, discharging at a depth of approximately 3 feet and the point of discharge is located approximately at latitude 30° 16' 45" N, longitude 81° 26' 15" W.

For the expansion of the rated capacity of the discharge from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection (UV) system. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of discharge shall remain the same.

**IN ACCORDANCE WITH:** The application, additional information provided through June 30, 1997, the limitations, monitoring requirements and other conditions as set forth in Pages 1 through 20 of this permit.

PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT/FACILITY NO.: FL0024767  
EXPIRATION DATE: December 14, 2002  
APPLICATION NO.: 274524

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharges**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to Pablo Creek (Intracoastal Waterway). Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow (Interim)	mgd	Maximum	0.64				Continuous	Recording flow meters and totalizers	EFD-1	See Cond.I.A.4
Flow (Final)	mgd	Maximum	0.75				Continuous	Recording flow meters and totalizers	EFD-1	See Cond.I.A.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	10.0	12.5	15.0	20.0	Weekly	8-hour flow proportioned composite	EFD-1	
Total Suspended Solids	mg/L	Maximum	20.0	30.0	45.0	60.0	Weekly	8-hour flow proportioned composite	EFD-1	
Fecal Coliform Bacteria	See Permit Condition I.A.5.						Weekly	Grab	EFD-1	
pH	std. units	Range				6.5 to 8.5	Five days per week	Grab or instrument	EFD-1	See Cond. I.A.3
Total Residual Chlorine (For Interim Disinfection)	mg/L	Minimum				0.5	Five days per week	Grab or instrument	EFA-1	See Cond.I.A.3
Total Residual Chlorine (For Interim Dechlorination)	mg/L	Maximum				0.01	Five days per week	Grab	EFD-1	
UV Disinfection (Final Disinfection)	--	Monitor					Seven days per week	Instrument	EFD-1	See Cond. I.A.6
Whole Effluent Toxicity	See Permit Condition I.A.11									
Oxygen, Dissolved (DO)	mg/L	Report					Five days per week	Grab	EFD-1	See Cond I.A.9

I.A.1 continued

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Total Recoverable Copper	ug/L	Report					Weekly	8-hour flow proportioned composite	EFD-1	
Nitrogen, Total Kjeldahl as N	mg/L as N	Maximum	4.0	5.0	6.0	8.0	Weekly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Nitrogen, Ammonia, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Organic Nitrogen, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Phosphorus, Total as P	mg/L as P	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Phosphorus in Total Orthophosphate as P	mg/L as P	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
Nitrogen, Total as N	mg/L as N	Report	--	--	--	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond I.A.13
NO2+NO3-Nitrogen, Total as N	mg/L as N	Report	-	-	-	--	Quarterly	8-hour flow proportioned composite	EFD-1	See Cond. I.A.13

PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT/FACILITY NO.: FL0024767  
EXPIRATION DATE: December 14, 2002  
APPLICATION NO.: 274524

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A. 1. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-1	Sample point immediately after disinfection
EFD-1	Sample point immediately after dechlorination

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [Chapter 62-601, Figure 2, Footnotes 1 and 2, 5-31-93]
4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. Upon completion of the UV disinfection system, the permitted capacity shall be rated at 0.750 MGD AADF. See permit section VI. [62-601.200(17) and .500(6), 5-31-93]
5. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of effluent each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. When more than 10 samples are taken, no more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. [62-600.440(4)(c), 6-8-93]
6. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. Upon completion of the ultraviolet disinfection (UV) system and approval by the Department, the permittee shall place the UV system into operation. Chlorine residual will not need to be monitored once the UV system is placed in operation. This UV system shall be monitored on a daily basis and the intensity and unit operation shall be verified. Operation and maintenance shall be performed on a regular basis in accordance with the manufacturer recommendations for an adequate factor of safety. Routine cleaning and bulb replacement practices shall be maintained. [62-600.440(4)(b), 6-8-93]
7. The wasteload allocation for this source is 170 lb. per day ultimate oxygen demand, as a maximum 30 day average limit. [62-620.320(9), 11-29-94] and [62-302.510(5), 2-27-95]
8. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. [Chapter 62-620.320(9) and 62-302.510(5), FAC]
9. In accordance with the dissolved oxygen (DO) standard of Chapter 62-302.530(31) FAC, for Class III marine waters, the DO shall be reported and measured in accordance with condition I.A.11. Florida water quality criteria and standards shall not be violated as a result of the discharge at monitoring locations EFD-1. [62-620.320(9), 11-29-94][62-302.510(5), 2-27-95]

PERMITTEE: United Water Florida  
San Pablo WWTP

PERMIT/FACILITY NO.: FL0024767  
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10. In accordance with Rule 62-302.500(1)(d) FAC, the Department reserves the right to require a series of tests to evaluate whole effluent toxicity of the discharge from outfalls. If required, the Department shall provide notice to the permittee by issuing a permit modification.
11. Field testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC. Each effluent parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL).

Parameter	Analytical Method	MDL (units)	PQL (units)
CBOD <sub>5</sub>	405.1	0.2 (mg/L)	1.0 (mg/L)
TKN	351.3	1.0 (mg/L)	1.0 (mg/L)
TSS	160.2	4.0 (mg/L)	4.0 (mg/L)
pH	150.1	0.10 (s.u.)	0.10 (s.u.)
Fecal Coliform	600/8-78-017	1/100 mL	2/100 mL
TRC (disinfection) or	330.1	0.01 (mg/L)	0.01 (mg/L)
TRC (disinfection) or	330.4	0.1 (mg/L)	0.1 (mg/L)
TRC (disinfection)	330.5	0.2 (mg/L)	0.2 (mg/L)
TRC (dechlorination)	330.1	0.01 (mg/L)	0.01 (mg/L)
Dissolved Oxygen or	360.1	0.10 (mg/L)	0.10 (mg/L)
Dissolved Oxygen	360.2	0.20 (mg/L)	0.20 (mg/L)
Copper, total recoverable	220.2	1.0 (ug/L)	5.0 (ug/L)
Nitrogen, Total	351.2 and 353.2	0.1 (mg/l)	0.2 (mg/l)
Phosphorus, Total	365.1	0.02 (mg/l)	0.05 (mg/l)
Ammonia, Total	350.1	0.02 (mg/l)	0.04 (mg/l)
Nitrate+Nitrite	353.2	0.05 (mg/l)	0.1 (mg/l)
Orthophosphorus	365.1	0.02 (mg/l)	0.05 (mg/l)
Organic Nitrogen	calculated	-	-

The MDLs and PQLs listed above shall constitute the minimum reporting levels for the duration of this permit. Equivalent methods are subject to approval by the Department for each effluent parameter. The Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those listed above. Equivalent methods are subject to approval by the Department for each effluent parameter. See permit specific condition number I.A.9 and general condition IX.18.. Unless otherwise specified, sample results shall be reported as follows:

- a) Results greater than or equal to the PQL shall be reported as the measured quantity.
- b) Results less than the PQL and greater than or equal to the MDL shall be reported as the PQL followed by the lab code "m" and shall be deemed equal to the MDL when necessary to calculate an average for that parameter.
- c) Results less than the MDL shall be reported as the MDL followed by the lab code "u". A value of one half the MDL or half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limit or monitoring requirement.

[62-4.246 FAC, 10-13-95]

12. No later than sixty (60) days following permit date of issuance, effluent discharged by the subject facility shall be sampled and tested for the following:
  - a. Nitrite nitrogen (NO<sub>2</sub>-N) and nitrate nitrogen (NO<sub>3</sub>-N).
  - b. Organic nitrogen.
  - c. Total nitrogen.
  - d. Total Ammonia.

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- e. Total Kjeldahl nitrogen.
- f. Orthophosphorus.
- g. Total phosphorus.

An 8-hour flow proportioned composite sample shall be taken at least once every ninety (90) days until further notice is received from the Department. Test results (showing parameters and corresponding concentrations in mg/L) shall be submitted to the Department with the discharge monitoring report corresponding to the month in which the samples were taken. [62-302.530(48) FAC, 8-8-94]

13. The Permittee shall initiate regular monitoring of the segment of the Intracoastal Waterway (Pablo Creek) near the outfall, D001, for maintaining data on the impact of the discharge to the water quality of the surface water body. The monitoring sites are described as follows:

STORET SITE	LOCATION	LATITUDE/LONGITUDE
27010118	Upstream of D001, between channel marker 39 and 40	301600.7 / 812524.3
27010117	Downstream of D001, at channel marker 36	301647.8 / 812519.9

The permittee shall coordinate the specific site locations with the DEP, Northeast District office. The parameters to be measured shall include the following:

DO, pH, temperature, conductivity, salinity, CBOD<sub>5</sub>, NH<sub>3</sub>-N, TKN, NO<sub>2</sub>-N and NO<sub>3</sub>-N, Total Phosphorous, Ortho-Phosphorus, Chlorophyll A, tide stage, velocity.

Metered parameters (DO, temperature, conductivity, salinity) shall be sampled at the surface, mid-depth and at the bottom. The pH parameter can be sampled only at the surface. Grab samples at mid depth for the other parameters is adequate. The sample shall be taken at the same time as the quarterly nutrient sampling event, as defined in I.A.1 above. The results for each quarterly instream sampling are due to be received at the Jacksonville DEP domestic waste section office by the following dates each year for the duration of this permit:

First quarter report	no later than	April	28
Second quarter report	no later than	July	28
Third quarter report	no later than	October	28
Fourth quarter report	no later than	January	28

[62-4.240(3)(c), 4-30-95]

**B. Other Limitations and Monitoring and Reporting Requirements**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report					Weekly	8 hour flow proportioned composite	INF-1	See Cond. I.B.3
Total Suspended Solids	mg/L	Report					Weekly	8 hour flow proportioned composite	INF-1	See Cond. I.B.3



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2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. B. 1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
INF-1	Influent samples collected prior to any biological treatment

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4), 5-31-93]
4. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. [62-620.610(18), 11-29-94]
5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5), 5-31-93]
6. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department on a monthly basis Discharge Monitoring Report(s) (DMR), Form 62-620.910(10), as attached to this permit. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department by the twenty-eighth (28th) of the month following the month of operation at the address specified below:

Florida Department of Environmental Protection  
Wastewater Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

[62-620.610(18), 11-29-94][62-601.300(1),(2), and (3), 5-31-93]

7. Unless specified otherwise in this permit, all reports and notifications required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northeast District Office District Office at the address specified below:

Florida Department of Environmental Protection  
Northeast District Office District Office  
Florida Dept. of Environmental Protection 7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256-7590

Phone Number - (904) 448-4330

FAX Number - (904) 448-4366 All FAX copies shall be followed by original copies.

## II. RESIDUALS MANAGEMENT REQUIREMENTS

### Basic Management Requirements

1. The method of residuals use or disposal by this facility is land application. However, this facility will utilize the Micronair Residuals system (or equivalent solids management system) and the land application of residuals will be very infrequent.

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2. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
3. The domestic wastewater residuals for this facility are classified as Class B. The Department recognizes that this facility is constructing the Micronair Residuals Management system. The grit, sand and other inert material shall be taken to a permitted solid waste landfill. See specific condition VIII.8.
4. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that it has delivered residuals that meet the chemical criteria and appropriate stabilization requirements of this permit and that the disposer (e.g. hauler, contractor, or disposal/land application site owner) has legally agreed in writing to accept responsibility for proper disposal. [62-640.300(3), 3-1-91]
5. The permittee shall sample and analyze the residuals at least once every 6 months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre *
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

\* The annual application rate for cadmium shall not exceed 0.5 pounds/acre/year.

6. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

Agricultural Sites

7. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
8. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]
9. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]
10. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]
11. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]
12. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]
13. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facilities permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan(s) identifies residuals land spreading on the following sites: [62-620.330, 11-29-94]

Site Name	Application Area (Acres)	Site Location	
		City	County
M.G. Higgenbotham	700	Jacksonville	Duval
Kennedy	100	Jacksonville	Duval

14. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
15. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
16. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
17. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
  - a. Date of application of the residuals,
  - b. Location of the residuals application site,

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- c. Amount of residuals applied or delivered,
- d. Identification of specific areas of the site where residuals were applied and acreage of that area,
- e. Method of incorporation of residuals (if any),
- f. Water table level at time of application, and
- g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide: annual updates to the Agricultural Use Plan(s) to reflect any changes in domestic wastewater residuals characteristics or agricultural practices; summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis for that period, shall be submitted to the Northeast District Office by 6/1 of each year. [62-640.700(3)(e) and (p), 3-1-91]

### III. GROUND WATER MONITORING REQUIREMENTS

Section Three is not applicable to this facility

### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Section Four is not applicable to this facility

### V. OPERATION AND MAINTENANCE REQUIREMENTS

#### Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 61E12-41, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 6 hours/day for 5 days/week and one visit on each weekend day. The lead operator must be a Class C operator, or higher. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409B.3., a privately owned regional WWTP with a permitted capacity of less than 1.0 MGD must comply with the operator staffing requirements for a WWTP with a permitted capacity of greater than 1.0 MGD.

[62-699, 5-20-94] [62-620.630(3), 11-29-94] [62-699.310, 5-20-92] [62-610.462(2), 4-2-90]

2. A certified operator shall be on call during periods the plant is unattended. [62-699.311(1), 5-20-92]

#### Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

3. An updated capacity analysis report shall be submitted to the Department annually by May 1 of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5), 6-8-93]
4. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1), 6-8-93]

Recordkeeping Requirements

5. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility:
- a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of the facility record drawings;
  - h. Copies of the licenses of the current certified operators; and
  - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

[62-620.350, 11-29-94][61E12-41.010(1)(e), 11-02-93]

VI. COMPLIANCE SCHEDULES AND SELF-IMPOSED IMPROVEMENT SCHEDULES

1. The permittee shall conduct and implement according to the following schedule:

	Implementation Step	Completion Date
1	Submit the notification of completion of the residuals treatment system	6/1/98
2	Submit a summary report and analysis of the results of copper sampling.	12/1/98
3	Submit the notification of completion of the UV disinfection system.	12/1/98
4	Perform and submit results for one additional benthic macroinvertebrate community assessment for the four sites as detailed in the March 10, 1997, ESI report.	12/1/2001

[62-620, 11-29-94]

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2. Prior to placing newly constructed facilities into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Domestic Wastewater Facilities. [62-620.630(2), 11-29-94]
3. Within six months after a facility is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.630(7), 11-29-94]

#### VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

Section Seven is not applicable to this facility

#### VIII. OTHER SPECIFIC CONDITIONS

1. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal, using Department Forms 62-620.910(1) and (2), no later than one-hundred and eighty days (180) prior to the expiration date of this permit. [62-620.410(5), 11-26-94]
2. The facilities shall comply with any conditions that the Secretary of the Army (United States Army Corps of Engineers) considers necessary to ensure that navigation and anchorage will not be substantially impaired. [62-620.620(1)(g), 11-29-94]
3. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. [62-600.410(8), 6-8-93]
4. The permittee shall not knowingly allow or cause the deliberate introduction of storm water in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of storm water into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited. [62-604.130(3), 5-31-93]
5. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550, 5-31-93] [62-620.610(20), 11-29-94]
6. The acceptance by the operating authority of a collection/transmission system and/or by the permittee of a treatment plant of connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or

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- c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in treatment plant discharges having temperatures above 40°C is prohibited. *[62-604.130(4), 5-31-93]*
7. The treatment facility shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b), 6-8-93]*
  8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-7.540, 12-10-85]*
  9. The permittee shall provide adequate notice to the Department of the following:
    - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C. if it were directly discharging those pollutants; and
    - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

*[62-620.625(2), 11-29-94]*
  10. Prior to placing the Micronair system into operation or any of the proposed unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Domestic Wastewater Facilities. *[62-620.630(2), 11-29-94]*
  11. Within six months after the facility modification is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-600, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. *[62-620.630(7), 11-29-94]*

#### IX. GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1), 11-29-94]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2), 11-29-94]*

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3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3), 11-29-94]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4), 11-29-94]
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5), 11-29-94]
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6), 11-29-94]
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7), 11-29-94]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), 11-29-94]
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620.610(9), 11-29-94]



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10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10), 11-29-94]
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11), 11-29-94]
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12), 11-29-94]
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13), 11-29-94]
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14), 11-29-94]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15), 11-29-94]
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62-620.420 or 62-620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16), 11-29-94]
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.

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[62-620.610(17), 11-29-94]

18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
  - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. On-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
  - e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

[62-620.610(18), 11-29-94]

19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19), 11-29-94]
20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
  - a. The following shall be included as information which must be reported within 24 hours under this condition:
    1. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
    2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,

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3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
  4. Any unauthorized discharge to surface or ground waters.
- b. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

*[62-620.610(20), 11-29-94]*

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX. 20 of this permit. *[62-620.610(21), 11-29-94]*

22. Bypass Provisions.

- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
  2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
  3. The permittee submitted notices as required under Permit Condition IX. 22. b. of this permit.
- b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX. 22. a. 1. through 3. of this permit.
- d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX. 22. a. through c. of this permit.

*[62-620.610(22), 11-29-94]*

23. Upset Provisions

- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:

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1. An upset occurred and that the permittee can identify the cause(s) of the upset;
  2. The permitted facility was at the time being properly operated;
  3. The permittee submitted notice of the upset as required in Permit Condition IX. 20. of this permit; and
  4. The permittee complied with any remedial measures required under Permit Condition IX. 5. of this permit.
- b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

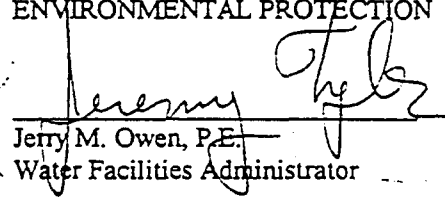
[62-620.610(23), 11-29-94]

#### X. Local Environmental Program Requirements

1. In accordance with Jacksonville Environmental Protection Board (EPB) Rule 3.409 C.2, San Pablo WWTP is a regional sewerage system. The master plan for Regional Sewerage Development for United Water Florida shall be updated in accordance with EPB Rule 3.409 C.3, at least once every two years and submitted to Jacksonville Regulatory and Environmental Services Department (RESD), Air and Water Quality Division, 421 West Church Street, Suite 422, Jacksonville, Florida 32202-4111.

Executed in Jacksonville, Florida.

*DFW*  
STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

*JMO*  
  
Jerry M. Owen, P.E.  
Water Facilities Administrator

#### FILING AND ACKNOWLEDGEMENT

FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
receipt of which is hereby acknowledged.

*[Signature]* 1/18/02

PERMITTEE: United Water Florida  
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**FACT SHEET  
FOR  
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
WASTEWATER FACILITY PERMIT**

Permit Number: 269271  
FL0024767

Application Date: April 17, 1995

Additional Information: August 17, 1995  
October 16, 1995  
11/16/95, 4/22/96,  
8/21/96, 4/21/97  
6/30/97

Permit Writer: Jeff Martin, P.E.

Public Notice Date: Draft - July 25, 1997

1. SYNOPSIS OF APPLICATION

a. Name and Address of Applicant

United Water Florida  
1400 Millco Road  
Jacksonville, Florida 32225

Attn: M. Sambamurthi, P.E., Vice President

For:

San Pablo WWTP  
14738 Marshview Drive  
Jacksonville, Florida, Duval County

b. Type of Facility

Domestic Wastewater Treatment Plant  
Publicly -owned treatment works - Minor  
This facility has one domestic outfall.  
Standard Industrial Classification Code: 4952.

c. Facility Capacity

Existing Design Capacity:	0.499 MGD AADF
Proposed Increase in Design Capacity:	0.249 MGD AADF
Proposed Total Design Capacity:	0.750 MGD AADF

Existing Permitted Capacity:	0.499 MGD AADF
Proposed Increase in Permitted Capacity:	0.249 MGD AADF
Proposed Total Permitted Capacity:	0.750 MGD AADF

d. Description of Facilities

To operate an existing 0.499 MGD annual average daily flow (AADF) permitted capacity extended aeration activated sludge domestic wastewater treatment plant providing secondary treatment consisting of

influent screening, aeration (.750 MGD volume), secondary clarification, aerobic digestion (62,500 gallon volume), chlorine disinfection, and dechlorination.

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system, or comparable solids management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill. The facility has an existing 0.499 MGD annual average daily flow (AADF) permitted discharge to a canal to Pablo Creek (Class III waters).

This permit also allows for the expansion of the rated capacity of the discharge from 0.499 MGD annual average daily flow (AADF), to a permitted discharge of 0.640 MGD annual average daily flow. The chlorination disinfection system shall be replaced by an ultraviolet disinfection system consisting of 80 lamps in two vertical array units. Upon notification of completion of the UV disinfection system to the Department, the permitted capacity shall be 0.750 MGD AADF. The point of effluent discharge shall remain the same.

e. Applicant's Effluent Disposal and Reuse Location(s)

Surface Water Discharge:

Receiving Waters: Outfall D001: Pablo Creek, Intracoastal Waterway, Class III waters

Latitude: 30 ° 16 ' 45 "

Longitude: 81 ° 26 ' 15 "

See Attachment A for a map showing the location(s) of the receiving waters and discharge location(s).

f. Description of Effluent or Reclaimed Water Discharges (as reported by applicant)

Outfall Serial Number D001

AADF Flow (MGD): 0.335 MGD

pH Range (Standard Units): 6.0 to 7.4

Pollutants which are present in significant quantities or which are subject to effluent or reclaimed water limitations are as follows:

Parameters	Reported Data		
	Annual Avg.	Lowest Monthly Avg.	Highest Monthly Avg.
BOD <sub>5</sub> , mg/L	1.82	3.5	5.6
TSS, mg/L	3.51	4.0	7.6
Fecal Coliform, #/100 ml	33	--	244
TRC (for disinfection), mg/L	-	0.5	-
TRC (for dechlorination), mg/L	0.003	0	0.01
TKN, mg/L	4.0		

2. PROPOSED EFFLUENT OR RECLAIMED WATER LIMITATIONS

Outfall Serial Number D001:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD (interim)	Maximum	0.640	--	--	--
Flow, MGD (final)	Maximum	0.750	--	--	--
TKN, mg/L	Maximum	4.0	5.0	6.0	8.0
CBOD <sub>5</sub> , mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	200	400	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.5 to 8.5			
Dissolved Oxygen mg/L	Report				

The biomonitoring testing was not in the previously issued EPA NPDES permits and has not been required for this permit because this is a minor facility. The DEP has performed fifth year studies and analysis for pesticides and nutrients and satisfactory results were reported. However, the copper and silver parameters exceeded the standards for Class III marine waters as listed. The silver standard was revised in December 1995, and the facility sample was less than the standard, thus in compliance. Since this is marine waters it is not hardness based. Additional sampling for copper is underway and will require a report in one year to evaluate and address the copper issue if levels are beyond the standard. The permittee shall sample on a monthly basis to evaluate the copper levels present in the effluent and the receiving stream.

3. BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS (INCLUDING INFLUENT MONITORING REQUIREMENTS)

See the table below for the rationale for the Part I.A provisions.

Outfall D001 :

Parameter	Basis for Limit/Monitoring Requirement	
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub> (QBEL, non-ocean discharge)	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i)
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TKN (QBEL, non-ocean discharge)	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-620.625(5) FAC & 40 CFR 133.102(a)(4)(i)
	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
TSS (Secondary, TBEL,	Annual Average	62-600.420(1)(a) & .740(1)(b)1.a. FAC
	Monthly Average	62-600.740(1)(b)1.b. FAC

<i>non-ocean discharge</i>  Fecal Coliform <i>(Basic disinfection)</i>	Weekly Average	62-600.740(1)(b)1.c. FAC
	Single Sample Max.	62-600.740(1)(b)1.d. FAC
	Annual Average	62-600.440(4)(c)1. FAC
	Monthly Geo. Mean	62-600.440(4)(c)2. FAC
	Monthly Percentile	62-600.440(4)(c)3. FAC
	Single Sample Max.	62-600.440(4)(c)4. FAC
pH <i>(non-WOBEL)</i>	Minimum and Maximum	62-600.445 FAC or Applicable Water Quality Standard from 62-302.530 FAC
TRC (for disinfection) <i>(Basic disinfection)</i>	Minimum	62-600.440(4)(b) FAC
TRC <i>(for dechlorination)</i>	Single Sample Max.	62-600.440(2) FAC & 62-302.530(19) FAC
Acute Whole Effluent Toxicity	Reserve the right to monitor	Rule 62-302.530 FAC
Dissolved Oxygen <i>(non-WOBEL)</i>	Monitor and report	62-302.530(31) FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Location	All Parameters	62-601 FAC and/or BPJ of permit writer

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the table are as follows:

*(Include applicable Chapters.)*

<u>Chapter</u>	<u>Effective Date</u>
62-4	02-02-94
62-302	02-27-95
62-550	09-07-94
62-600	06-08-93
62-601	05-31-93
62-620	11-29-94
62-650	11-27-89
62-699	05-20-92

B. FS refers to various portions of the Florida Statutes

C. CFR refers to various portions of the Code of Federal Regulations, Title 40

D. BPJ refers to Best Professional Judgment

See the table below for the rationale for the Part I.B provisions.



Other Limitations and Monitoring Requirements:

Parameter		Basis for Limit/Monitoring Requirement
Flow	Annual ADF	62-600.400(3)(b) FAC
	3-Month ADF	62-600.400(3)(b) FAC
	Monthly ADF	62-600.400(3)(b) FAC
CBOD <sub>5</sub> (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC
TSS (Influent Monitoring)	Monitor & Report	62-601.300(1) FAC

The following were used as the basis of the permit conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective dates of FAC Rule Chapters cited in the table are as follows:

Chapter	Effective Date
62-600	06-08-93
62-601	05-31-93

4. RESIDUALS MANAGEMENT

This permit also allows for the construction of a residuals management system know as the Micronair Solids Management system that provides aerobic digestion, a system of rotary drum screens and cyclones that removes inerts, trash and sand for collection and disposal to an approved landfill.

Class of residuals stabilization to be provided: Class B  
Proposed method of residuals use or disposal: Landfill is primary, land application as back-up.  
The residuals are to be disposed by truck to the Trailridge Ridge Landfill in Duval County.  
It is important for the permittee to contact the US EPA concerning any sludge requirements of the CFR 503 criteria and under the US EPA sludge only permit program.

It is recommended that the treated residuals have the following parameters analyzed for on a semi-annual basis to verify the metals, nutrient and solids content:

Parameter		Basis for Limit/Monitoring Requirement
Total Nitrogen, % dry weight	Report	62-640.700(1)(b) FAC
Total Phosphorus, % dry weight	Report	62-640.700(1)(b) FAC
Total Potassium, % dry weight	Report	62-640.700(1)(b) FAC

Cadmium, mg/kg dry weight	Maximum	62-640.700(2) FAC
Copper, mg/kg dry weight	Maximum	62-640.700(2) FAC
Lead, mg/kg dry weight	Maximum	62-640.700(2) FAC
Nickel, mg/kg dry weight	Maximum	62-640.700(2) FAC
Zinc, mg/kg dry weight	Maximum	62-640.700(2) FAC
pH, std. units	Report	62-640.700(1)(b) FAC
Total Solids, %	Report	62-640.700(1)(b) FAC
Nitrogen, lb/ac/yr	Maximum	62-640.700(3)(d) FAC
Cadmium, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Copper, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Lead, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Nickel, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Zinc, lb/ac	Cumulative Maximum	62-640.700(3)(e) or (4)(f) FAC
Monitoring Frequency	All Parameters	62-640.700(1)(a) FAC

The following was used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code

The effective date of the FAC Rule Chapter cited in the table is as follows:

*(Include applicable Chapters.)*

<u>Chapter</u>	<u>Effective Date</u>
62-640	03-01-91

## 5. INDUSTRIAL PRETREATMENT REQUIREMENTS

The permittee/facility is not required to develop an industrial pretreatment program. The utility indicates that no categorical industries are identified in the service area.

## 6. DISCUSSION OF PREVIOUS PERMIT EFFLUENT OR RECLAIMED WATER LIMITATIONS

The current wastewater facility permit DO16-162840 was issued on July 19, 1990 and expired May 31, 1995. The consolidated permit had an expiration date of July 3, 1995. The permittee had submitted a permit renewal to EPA prior to the delegation date of May 1, 1995. The current permit contains the following effluent limits:

For Surface Water Discharge:

Parameters	Effluent or Reclaimed Water Limitations				
	Maximum/ Minimum	Annual Average	Monthly Average	Weekly Average	Single Sample
Flow, MGD	Maximum	0.499	--	--	--
CBOD <sub>5</sub> , mg/L	Maximum	10	12.5	15	20
TSS, mg/L	Maximum	20	30	45	60
Fecal Coliform, #/100 ml	Maximum	200	200	400	800
TRC (for disinfection), mg/L	Minimum	--	--	--	0.5
TRC (for dechlorination), mg/L	Maximum	--	--	--	0.01
pH, std. units	Range	6.0 to 8.5			
TKN, mg/L	Maximum	4.0	5.0	6.0	8.0

7. NEW OR EXPANDED DISCHARGES TO SURFACE WATERS: ANTIDegradation REQUIREMENTS

The applicant has submitted an Antidegradation report in accordance with Rules 62-302.300 and 62-4.242 F.A.C. The report reviews existing uses, State surface water quality standards and considers a public interest test. The public interest test includes a balancing test and an options review. The reports conclude that existing uses will be maintained, that surface water quality standards will not be violated and that the public interest test has been satisfied. The expansion from 0.499 MGD AADF to 0.750 MGD AADF has been approved. Through June 30, 1997, the following reports were submitted for United Water by Camp Dresser, McKee: capacity analysis report, benthic macroinvertebrate community assessment, and a level I WQBEL. The reuse feasibility report was submitted by CH2M Hill.

8. EFFECTS OF SURFACE WATER DISCHARGE ON THREATENED OR ENDANGERED SPECIES

As this is an existing surface water discharger in the major category, the discharge has not and will not adversely affect any threatened or endangered species. The Department does not anticipate adverse impacts on any threatened or endangered species as a result of permit renewal or as a result of the expanded discharge. The DEP reserves the right to require biomonitoring. The DEP will require nutrient monitoring of the discharge as well as stream monitoring at the outfall, D001.

9. DEP CONTACT

Additional information concerning the permit may be obtained during normal business hours from:

Jeff Martin, P.E.  
Department of Environmental Protection, Northeast District Office  
8725 Baymeadows Way, Suite 200 B  
Jacksonville, Florida 32256

Telephone No.: (904) 448-4330

10. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 12.

11. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft permit to Applicant for review.....July 25, 1997  
Proposed Public Comment Period ..... Beginning: September 5, 1997  
Ending: October 5, 1997  
Notice of Agency Action ..... December 15, 1997  
Final Department Action..... December 15, 1997

12. PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE

a. Public Comment Period

The Department of Environmental Protection proposes to issue a wastewater facility permit to this applicant subject to the aforementioned reclaimed water or effluent limitations and conditions. This decision is tentative and open to comment from the public.

Interested persons are invited to submit written comments regarding permit issuance on the draft permit limitations and conditions to the following address:

Department of Environmental Protection, Northeast District Office  
7825 Baymeadows Way, Suite 200B  
Jacksonville, Florida 32256  
Attn: Jeff Martin, P.E.

All comments received within 30 days following the date of public notice, pursuant to Rule 62-620.550, F.A.C., will be considered in the formulation of the final decision with regard to permit issuance.

Any interested person may submit written comments on the Department's proposed permitting decision or may submit a written request for a public meeting to the address specified above, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the above named District office of the Department within 30 days of receipt or publication of the public notice. Failure to submit comments or request a public meeting within this time period will constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

The comments or request for a public meeting shall contain the following information:

- (1) The commenter's name, address and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when notice of the draft permit was received;
- (3) A description of any changes the commenter proposes for the draft permit;
- (4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and
- (5) A request that a public meeting be scheduled (if applicable) including a statement of the nature of the issues proposed to be raised at the meeting.

b. Public Meeting

The Department will hold a public meeting if there is a significant degree of public interest in the draft permit or if it determines that useful information and data may be obtained thereby. Public notice of such a meeting shall be published by the applicant at least 30 days prior to the meeting.

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data at the meeting on the Department's proposed action.

c. Issuance of the Permit

The Department will make its decision regarding permit issuance after consideration of all written comments, including comments from the United States Environmental Protection Agency on surface water discharge aspects of the draft or proposed permit; the requirements of Chapter 403, F.S., and appropriate rules; and, if a public meeting is held, after consideration of all comments, statements and data presented at the public meeting. The Department will respond to all significant comments in writing. The Department's response to significant comments will be included in the administrative record of the permit and will be available for public inspection at the above named District office of the Department.

Unless a request for an administrative hearing, or an extension of time to file a petition for an administrative hearing, as indicated in d. below, is granted, the Department will take final agency action by issuing the permit or denying the permit application. If an administrative hearing is convened, final agency action will be based on the outcome of the hearing.

d. Administrative Hearing

A person whose substantial interests are affected by the Department's proposed permitting decision has the opportunity to petition for an administrative proceeding (hearing) to challenge the Department's decision in accordance with Section 120.57, F.S.

An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including

the hearing officers findings of fact, based on the evidence presented at the hearing. The Department will issue a final order, granting or denying the permit, based on the hearing officer's recommended order.

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57, F.S. The petition is to contain the following information:

- (1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (2) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (6) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in the notice of agency action. Persons whose substantial interests will be affected by any decision of the Department on the application have the right to petition to become a party to the proceeding, regardless of their agreement or disagreement with the Department's proposed action indicated in the notice of agency action.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida San Pablo  
 MAILING ADDRESS: 1400 Millcoc Road  
 Jacksonville, FL 32225-4442  
 FACILITY: San Pablo WWTF  
 LOCATION: 14738 Marshview Drive  
 Jacksonville, Florida 32250  
 COUNTY: Duval

PERMIT NUMBER: FL0024767  
 MONITORING PERIOD From: \_\_\_\_\_  
 LIMIT: Final  
 CLASS SIZE: Minor  
 FACILITY ID: FL0024767  
 GMS ID NO.: 3116P01984  
 DISCHARGE POINT NUMBER: D001  
 PLANT SIZE/TREATMENT TYPE: IC

To: \_\_\_\_\_  
 REPORT: Monthly  
 GROUP: Domestic  
 GMS TEST SITE NO.: 3116X00031  
 WAFR SITE NO.: 9635

Parameter		Quantity or Loading			Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum	Units			
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 Mon. Site No. EFD-1	Permit Measurement					10.0 ANN.AVG		MG/L		Weekly	8-hour Flow Composite
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement										
STORET No. 80082 Mon. Site No. EFD-1	Permit Measurement					12.5 MO.AVG	20.0 MAX	MG/L		Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 Mon. Site No. EFD-1	Permit Measurement					20.0 ANN.AVG		MG/L		Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement										
STORET No. 00530 Mon. Site No. EFD-1	Permit Measurement					30.0 MO.AVG	60.0 MAX	MG/L		Weekly	8-hour Flow Composite
pH	Sample Measurement										
STORET No. 00400 Mon. Site No. EFD-1	Permit Measurement				6.5 MIN		8.5 MAX	S.U.		Continuous	Instrument
Fecal Coliform Bacteria	Sample Measurement										
STORET No. 31616 Mon. Site No. EFD-1	Permit Measurement					700 ANN.AVG		/100mL		Weekly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE(YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY NAME: United Water Florida San Pablo WWTF

PERMIT NUMBER: FL0024767

DISCHARGE POINT NUMBER: D001

WAFR SITE No.: 9635

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Average	Maximum	Units	Minimum	Average	Maximum			
Fecal Coliform Bacteria	Sample Measurement									
STORET No. 31616 Mon. Site No. EFD-1	Permit Measurement					Report MO GEO MEAN	800 MAX	#/100mL	Weekly	Grab
CHLORINE, TOTAL RESIDUAL (for dechlorination)	Sample Measurement									
STORET No. 50060 Mon. Site No. EFD-1	Permit Measurement						0.01 MAX	MGL	Daily	Meter/Total
CHLORINE, TOTAL RESIDUAL (for disinfection)	Sample Measurement									
STORET No. 50060 Mon. Site No. EPA-1	Permit Measurement				0.5 MIN			MGL	Continuous	Meter/Total
Nitrogen, Total Kjeldahl as N	Sample Measurement									
STORET No. 00625 Mon. Site No. EFD-1	Permit Measurement					4.0 ANN AVG		MGL as N	Weekly	8-hour Flow Composite
Nitrogen, Total Kjeldahl as N	Sample Measurement									
STORET No. 00625 Mon. Site No. EFD-1	Permit Measurement					6.0 MO AVG	8.0 MAX	MGL as N	Weekly	8-hour Flow Composite
Oxygen, Dissolved (DO)	Sample Measurement									
STORET No. 00300 Mon. Site No. EFD-1	Permit Measurement				REPORT MIN			MGL	Daily	Instrument
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement									
STORET No. 50050 Mon. Site No. EPA-1	Permit Measurement	0.640 ANN AVG		MGD					Continuous	Flow Meter
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	Sample Measurement									
STORET No. 50050 Mon. Site No. EPA-1	Permit Measurement	Report MO AVG		MGD					Continuous	Flow Meter
BOD, CARBONACEOUS 5 DAY, 20 C	Sample Measurement									
STORET No. 80082 Mon. Site No. INF-1	Permit Measurement	Report MO AVG		MGL					Weekly	8-hour Flow Composite
SOLIDS, TOTAL SUSPENDED	Sample Measurement									
STORET No. 00530 Mon. Site No. INF-1	Permit Measurement	Report MO AVG		MGL					Weekly	8-hour Flow Composite
COPPER, Total Recoverable	Sample Measurement									
STORET No. 01042 Mon. Site No. EFD-1	Permit Measurement					REPORT MO AVG	REPORT MAX	ug/L	Weekly	8-hour Flow Composite



**DAILY SAMPLE RESULTS - PART B**

Facility ID:  
Month/Year:

Days of the Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Flow (MGD)																														
Chlorine Residual after Contact																														
Chlorine Residual after Dechlorination																														
CBOD5 Influent (mg/l)																														
TSS Influent (mg/l)																														
CBOD5 Effluent (mg/l)																														
TSS Effluent (mg/l)																														
pH Effluent																														
TKN Effluent (mg/l)																														
NH3 - N Effluent (mg/l)																														
Nitrate Effluent (mg/l)																														
Total P Effluent (mg/l)																														
Fecal Coliform (#.100ml)																														

Plan Staffing:  
 Day Shift Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_  
 Evening Shift Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_  
 Night Shift Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_  
 Lead Operator      Class \_\_\_\_\_      Certificate No. \_\_\_\_\_      Name: \_\_\_\_\_

Type of Effluent Disposal or Reclaimed Water Reuse: \_\_\_\_\_  
 Limited Wed Weather Discharge Activated: Yes \_\_\_ No \_\_\_ Not Applicable \_\_\_ If yes, cumulative days of wet weather discharge: \_\_\_\_\_

\*Attach additional sheets necessary to list all certified operators necessary for required operations.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: United Water Florida San Pablo  
 MAILING ADDRESS: 1400 Millcoe Road  
 Jacksonville, FL 32225-4442  
 FACILITY: San Pablo WWTF  
 LOCATION: 14738 Marshview Drive  
 Jacksonville, Florida 32250  
 COUNTY: Duval

PERMIT NUMBER: FL0024767  
 MONITORING PERIOD From: Final  
 LIMIT: Minor  
 CLASS SIZE: FL0024767  
 FACILITY ID: 3116P01984  
 GMS ID NO.: D001  
 DISCHARGE POINT NUMBER: IC  
 PLANT SIZE/TREATMENT TYPE: IC

To: QUARTERLY  
 REPORT: Domestic  
 GROUP: 3116X00031  
 GMS TEST SITE NO.: 9635  
 WAFR SITE NO.:

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
TOTAL NITROGEN Storet No. 00600 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite
ORGANIC NITROGEN Storet No. 00605 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite
NITRITE + NITRATE NITROGEN Storet No. 00630 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite
TOTAL AMMONIA Storet No. 00610 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite
TOTAL KJELDAHL NITROGEN (TKN) Storet No. 00625 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite
TOTAL PHOSPHOROUS Storet No. 00665 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite
ORTHO PHOSPHOROUS Storet No. 00671 1 Mon. Site No. EFD-1	Sample Measurement									
	Permit Requirement					Report	mg/L		Quarterly	8 hour flow proportioned composite

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO.	DATE(Y/M/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

QUARTERLY

PART A Continued

FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010118 DISCHARGE POINT #: D001 WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
CBOD <sub>5</sub> Storet No. 80082 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORGANIC NITROGEN Storet No. 00605 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
NITRITE + NITRATE NITROGEN Storet No. 00630 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL AMMONIA Storet No. 00610 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL KJELDAHL NITROGEN (TKN) Storet No. 00625 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
Chlorophyll A Storet No. 32230 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
VELOCITY Storet No. 46570 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	FTS		Quarterly
TOTAL PHOSPHOROUS Storet No. 00665 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORTHO PHOSPHOROUS Storet No. 00674 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A QUARTERLY

PART A continued

FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010118 DISCHARGE POINT #: D001 WAFR Site No.: 9635  
 Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
Dissolved Oxygen (mid depth) Storet No. 00300 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement				REPORT			mg/l	Quarterly	Grab
Temperature °C (mid depth) Storet No. 00010 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	Std. units	Quarterly	Grab
SALINITY Storet No. 00480 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	Degrees C	Quarterly	Grab
TIDE STAGE Storet No. 00067 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement				REPORT			Degrees C	Quarterly	Grab
pH Storet No. 00100 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	Degrees C	Quarterly	Grab
Conductivity Storet No. 82561 5 Mon. Site No. SWU-1	Sample Measurement									
	Permit Requirement						REPORT	umol/m3	Quarterly	Grab

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

QUARTERLY

PART A Continued

FACILITY NAME: United Water Florida WWTF

FACILITY ID: FL0024767

STORET STATION: 27010117

DISCHARGE POINT #: D001

WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter		Quantity or Loading			Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.	Units	Min./Other	Avg.	Max.			
CBOD <sub>5</sub> Storet No. 80082 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORGANIC NITROGEN Storet No. 00605 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
NITRITE + NITRATE NITROGEN Storet No. 00630 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL AMMONIA Storet No. 00610 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
TOTAL KJELDAHL NITROGEN (TKN) Storet No. 00625 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
Chlorophyll A Storet No. 32230 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
VELOCITY Storet No. 46570 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	FT/S		Quarterly
TOTAL PHOSPHOROUS Storet No. 00665 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly
ORTHO PHOSPHOROUS Storet No. 00674 6 Mon. Site No. SWD-1	Sample Measurement									
	Permit Requirement						REPORT	mg/L		Quarterly

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

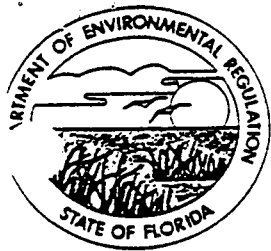
QUARTERLY

PART A continued FACILITY NAME: United Water Florida San Pablo WWTF FACILITY ID: FL0024767 STORET STATION: 27010117 DISCHARGE POINT #: D001 WAFR Site No.: 9635

Please read instructions before completing this form.

Parameter	Quantity or Loading							Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type		
	Sample Measurement	Avg.	Max.	Units	Min./Other	Avg.	Max.	Units	REPORT	REPORT				REPORT	
Dissolved Oxygen (mid depth)	Permit Requirement														
	Sample Measurement														
Storet No. 00300 6 Mon. Site No. SWD-1	Permit Requirement														
	Sample Measurement														
TEMPERATURE °C (mid depth)	Permit Requirement														
	Sample Measurement														
Storet No. 00010 6 Mon. Site No. SWD-1	Permit Requirement														
	Sample Measurement														
SALINITY	Permit Requirement														
	Sample Measurement														
Storet No. 00480 5 Mon. Site No. SWU-1	Permit Requirement														
	Sample Measurement														
TIDE STAGE	Permit Requirement														
	Sample Measurement														
Storet No. 00067 5 Mon. Site No. SWU-1	Permit Requirement														
	Sample Measurement														
pH	Permit Requirement														
	Sample Measurement														
Storet No. 00400 6 Mon. Site No. SWD-1	Permit Requirement														
	Sample Measurement														
Conductivity	Permit Requirement														
	Sample Measurement														
Storet No. 82561 6 Mon. Site No. SWD-1	Permit Requirement														
	Sample Measurement														

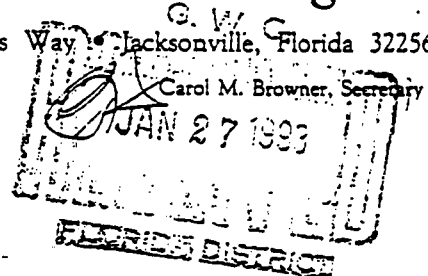
CONSULT AND EXPLANATION OF ANY VIOLATIONS (reference all attached here):



# Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor



## NOTICE OF PERMIT TRANSFER

January 21, 1993

Phillip Heil, Vice President  
Jacksonville Suburban Utilities Corporation  
P.O. Box 8004  
Jacksonville, Florida 32239

Subject: San Pablo (formerly Isle of Palms) Wastewater Facility (WWF):  
Application For Transfer Of Operation Permit No. D016-162840

Dear Mr. Heil:

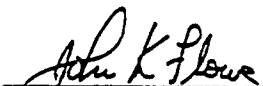
Operation Permit No. D016-162840 is hereby transferred to you in accordance with the Application For Transfer Of Permit received November 5, 1992 (and assigned Department File No. 222066). The Department is authorized by Florida Administrative Code (FAC) Rule 17-4.120 to transfer the subject permit. All permit conditions are in effect and fully enforceable; you are now responsible for ensuring that San Pablo WWF complies with all permit conditions. Please find your copy of Operation Permit No. D016-162840 attached to this Notice of Permit Transfer.

Persons whose substantial interests are affected by this Permit Transfer have a right, pursuant to Section 120.57, Florida Statutes, to petition for a administrative determination (hearing) on it. The petition must conform to the requirements of Florida Administrative Code (FAC) Chapter 17-103 and FAC Rule 28-5.201 (copies attached) and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of receipt of this Notice. Failure to file a petition within (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This Permit Transfer is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to FAC Rule 17-103.070. Upon timely filing of a petition or a request for an extension of time this Permit Transfer will not be effective until further Order of the Department.

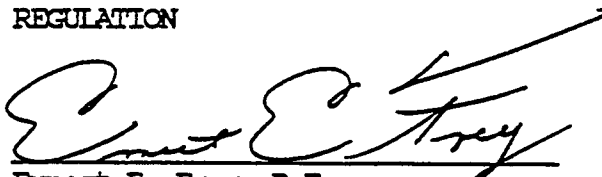
When the Order (Permit Transfer) is final, any party to this action has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order (Permit Transfer) is filed with the Clerk of the Department.

Executed on this 21st day of January, 1993 in Jacksonville, Florida.

CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY AND  
ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

  
\_\_\_\_\_  
John K. Flowe, P.E.  
Division Chief

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL  
REGULATION

  
\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director of District Management

CJH

Copy furnished to: City of Jacksonville Water Quality Division (WQD)

CERTIFICATE OF SERVICE

RS

This is to certify that this NOTICE OF PERMIT TRANSFER and all copies were mailed before the close of business on January 26, 1993 to the listed persons.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

John K. Flowe 1/26/93  
Clerk Date





# Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

**PERMITTEE:**

Philip Heil, Vice President  
Jacksonville Suburban Utilities  
Corporation  
P.O. Box 8004  
Jacksonville, Florida 32239

**I.D. NUMBER:** 3116P01984

**PERMIT/CERT NUMBER:** DO16-162840

**DATE OF ISSUE:** July 19, 1990

**EXPIRATION DATE:** May 31, 1995

**COUNTY:** Duval

**LAT/LONG:** 30°16'45"N/81°26'15"W

**SECTION/TOWNSHIP/RANGE:**

**PROJECT:** San Pablo (formerly Isle of Palms)  
Wastewater Facility (WWF)

**TRANSFERRED:** January 21, 1993

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-4, 17-7, 17-301, 17-302, 17-600, 17-601, 17-602, 17-610, 17-640 and 17-650. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

The Department permits the operation of a 0.499 MGD extended aeration wastewater facility with grit removal, chlorination and sulfur dioxide (SO<sub>2</sub>) dechlorination; dechlorinated effluent is discharged into a sixteen (16)-inch diameter ductile iron pipe and thence into the Intracoastal Waterway; sludge is treated on-site by aerobic digestion and disposed of by off-site land application; this facility serves the San Pablo Wastewater Facility Certificated Area of Service.

San Pablo Wastewater Facility is located at 14738 Marshview Drive, Jacksonville, Duval County, Florida.

Operation Permit No. DO16-162840 (1) was issued in accordance with the application received April 2, 1989 and completed by additional information received periodically through April 11, 1990 (including, but not limited to, Construction Permit Application No. 178877 for the addition of an effluent dechlorination system) and (2) is transferred in accordance with the Application For Transfer Of Permit received November 5, 1992 (and assigned Department File No. 222066).

PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: D016-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
TRANSFERRED: January 21, 1993

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.141, 403.161, 403.727 or 403.859 through 403.861 Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: DO16-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
TRANSFERRED: January 21, 1993

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted to:
- a. Have access to and copy any records that must be kept under the conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the Department with the following information:
- a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or revocation or for this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Florida Administrative Code Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: D016-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
TRANSFERRED: January 21, 1993

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
  - (a) Determination of Best Available Control Technology (BACT)
  - (b) Determination of Prevention of Significant Deterioration (PSD)
  - (c) Certification of Compliance with State Water Quality Standards (Section 401, FL 92-500)
  - (d) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the results of such analyses.
15. When requested by the Department, the permittee shall, within a reasonable period of time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: D016-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
TRANSFERRED: January 21, 1993

SPECIFIC CONDITIONS:

1. During the period of operation allowed by this permit, the permittee shall furnish one copy of the monthly operations report on the operation of the subject wastewater facility. Such report shall also contain information on the daily quantities of waste sludge generated at the source, type and degree of treatment and the site of ultimate disposal. Reports using Department of Regulation (DER) Form 17-601.900(1) shall be submitted on a monthly basis to the Department; for the purposes of this permit, the Department shall mean (1) the State of Florida Department of Environmental Regulation (DER), 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7577 and (2) the City of Jacksonville Regulatory and Environmental Services Department (RESD) Water Quality Division (WQD), 421 West Church Street, Suite 412, Jacksonville, Florida 32202-4111.
2. Domestic waste sludge or other solid waste shall not be discharged into waters either directly or indirectly and the same shall be disposed of in a manner approved by DER.
3. The effluent from this source shall be adequately chlorinated at all times so as to provide a basic level of disinfection as required by Florida Administrative Code (FAC) Rule 17-600.440(4).
4. The personnel in charge of the operation, supervision or maintenance of the treatment facilities shall meet the requirements of FAC Chapter 17-602. Sampling and monitoring of this facility will be in accordance with FAC Chapter 17-601.
5. The discharge authorized this permit shall be consistent at all times with the water quality standards set forth in FAC Chapters 17-301 and 17-302.
6. No additional connection shall be made to this facility without prior approval of the Department.
7. The permit holder shall also comply with county, municipal, federal or other state environmental regulations.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with FAC Rule 17-600.720(2).
9. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
10. Domestic waste sludge disposal shall be in accordance with Part IV of FAC Chapter 17-7. Sludge which has not been analyzed pursuant to FAC Rule 17-7.540(2), shall be disposed of at permitted or exempt solid waste disposal sites pursuant to FAC Rule 17-701.030 or as otherwise provided in FAC Rule 17-7.540(6).

PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: DO16-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
TRANSFERRED: January 21, 1993

SPECIFIC CONDITIONS:

11. The monitoring requirements and effluent limitations for this WWF are as follows:

PARAMETER	EFFLUENT LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
FLOW	0.499 MGD(b)	Continuous	(e)	Effluent
CBOD <sub>5</sub>	(a)	Weekly	Composite (h)	Influent & Effluent (f)
TSS	(a)	Weekly	Composite (h)	Influent & Effluent (f)
TKN	(a)	Weekly	Composite (h)	Effluent (f)
pH Units	6.0 to 8.5	Continuous	Grab (c)	Effluent (f)
Chlorine Residual	Min. 0.5 mg/l (i) Max. 0.01 mg/l(j)	Continuous Daily, 7/Week	Grab (c) Grab (d)	Effluent (g) Effluent (f)
Fecal(k) Coliform	Avg. ≤200/100 ml Max. 800/100 ml	Weekly	Grab (d)	Effluent (f)

(a) Effluent Limits, Maximum (mg/l)

	Annual average	Monthly average	Weekly average	One time grab max.
CBOD <sub>5</sub> (l)	10	12.5	15	20
TSS(m)	20	30	45	60
TKN(l)	4	5	6	8

- (b) Annual average daily flow shall not exceed value shown.
- (c) Effluent total residual chlorine (TRC) content (following chlorination) and pH shall be measured by grab samples taken on a continuous basis. However, hourly measurements taken during the entire period of required operator attendance may be substituted for continuous measurement.
- (d) Grab samples for effluent TRC content (following dechlorination) and fecal coliform will be collected during periods of minimal wastewater facility pollutant removal efficiencies, or maximum organic loading in the effluent.
- (e) Effluent flow rate is measured at the chlorine contact chamber weir by a transponder that is connected to a recording flow meter and totalizer.
- (f) Effluent shall be measured for these parameters following dechlorination and prior to discharge to surface waters.
- (g) Effluent shall be sampled for this parameter at the point of (or following) discharge from the chlorine contact chamber and prior to dechlorination.
- (h) An eight (8)-hour, flow proportioned composite sample is required.
- (j) Effluent TRC content shall not fall below 0.5 mg/l, in accordance with the disinfection requirements of FAC Rule 17-600.440(4)(b).

PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: DO16-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
TRANSFERRED: January 21, 1993

**SPECIFIC CONDITIONS:**

- (j) Effluent TRC content shall not exceed 0.01 mg/l, in accordance with the dechlorination requirements of FAC Rules 17-302.560(10) and 17-600.440(2). Effluent chlorination requirements and dechlorination requirements shall be met independently.
  - (k) Fecal coliform values shall comply with FAC Rule 17-600.440(4)(c).
  - (l) The maximum allowable monthly average, weekly average and one (1)-time grab sample are calculated in accordance with FAC Rule 17-600.740(1)(b)2.
  - (m) Effluent limits are assigned in accordance with FAC Rules 17-600.420(1) and 17-600.740(1)(b)1.
12. The wasteload allocation for this source is 170 lbs/day Ultimate Oxygen Demand (UOD) as a maximum, thirty (30)-day average limit.

Where:  $UOD = CUOD + NUOD$

$$CUOD = (11.93)(Q)(CBOD_5)$$

$$NUOD = (38.11)(Q)(TKN)$$

and Where:

Q = WWF flow in MGD

CBOD<sub>5</sub> = carbonaceous 5-day BOD concentration in mg/l

TKN = Total Kjeldahl Nitrogen in mg/l

The Permittee shall report the calculated UOD, CUOD and NUOD on the Monthly Operational Reports.

13. The Department is conducting Water Quality Based Effluent Limitation (WQBEL) studies for certain parts of Duval County. If a WQBEL is developed for this source which requires the annual effluent limits to be revised, the Permittee shall be notified in writing by the Department. After notification, the Permittee shall be allowed (a) 90 days to bring the wastewater facility into compliance with the revised effluent limits or (b) 60 days to submit an application for (1) a construction permit which will bring the facility into compliance within 180 days of construction permit issue date or (2) a temporary operation permit with a compliance schedule or (3) administrative relief pursuant to FAC Rules 17-4.23 and 17-4.244. Department studies do not relieve the applicant of specific responsibilities in rule or elsewhere in this permit.

The Department may modify this permit at a later date to require ambient water quality monitoring per FAC Rule 17-650.500.

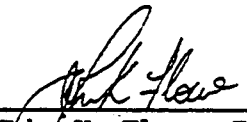
PERMITTEE:  
Philip Heil  
San Pablo WWF

I.D. NUMBER: 3116P01984  
PERMIT NUMBER: DO16-162840  
DATE OF ISSUE: July 19, 1990  
EXPIRATION DATE: May 31, 1995  
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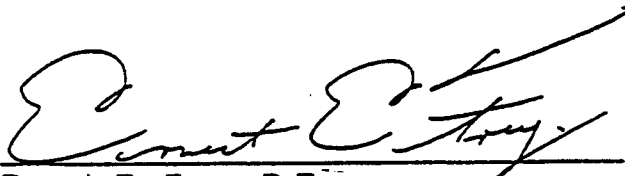
SPECIFIC CONDITIONS:

- 14. The subject WWF shall be staffed by a State-licensed Class C (or higher) operator for no less than six (6) hours per day, for no less than five (5) days per week and one (1) visit on each weekend day. The lead/chief operator must be a State-licensed Class C (or higher) operator. Operator staffing requirements for this WWF are derived from FAC Rule 17-699.310(3)(c) for a Category III, Class C Treatment Process with a permitted capacity ranging from 0.5 MGD up to 2.0 MGD. Although its permitted capacity is 0.499 MGD, this WWF must comply with the operator staffing requirements for a facility having a permitted capacity that exceeds 1.0 MGD, as specified by City of Jacksonville Environmental Protection Board Rule 3.409 B.3.
- 15. No later than March 31, 1995, the Permittee shall submit an application for an operation permit or a temporary operation permit for the subject WWF. The permit application shall be submitted in accordance with the Department's Administrative Procedures and shall include (1) all applicable State and local processing fees and (2) all required supplementary documents, including (but not necessarily limited to) a capacity analysis report and an operation and maintenance performance report.

CJH  
CITY OF JACKSONVILLE  
DEPARTMENT OF REGULATORY  
AND ENVIRONMENTAL SERVICES  
WATER QUALITY DIVISION

  
\_\_\_\_\_  
John K. Flowe, P.E.  
Division Chief

RS  
Issued this 19th day of July 1990  
Transferred this 21 day of January 1993  
STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

  
\_\_\_\_\_  
Ernest E. Frey, P.E.  
Director of District Management

FILED AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to Florida Statutes, with the Department Clerk, receipt of which is hereby acknowledged.  
Clerk \_\_\_\_\_ Date 1-21-93





# Department of Environmental Protection

cc: MACKAY  
CRIPPIS  
LH

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

*GORDON  
your  
FOR  
INFO.  
TM*

Virginia B. Wetherell  
Secretary

December 12, 1997

CERTIFIED MAIL -- RETURN RECEIPT

**RECEIVED**

In the Matter of an Application  
for Permit Transfer by:

DEP Project No. FLA011782-001  
St. Johns County

Munipalli Sambamurthi,  
Vice President  
United Water Florida, Inc.  
1400 Millcoe Road  
Jacksonville, Florida 32239-8004

St. Johns Forest WWTP **UNITED WATER FLORIDA**

*file - FDEP Permit  
for Nassau St. Johns Forest*

DEC 22 1997

## NOTICE OF PERMIT TRANSFER

This notice serves as a revision to Permit Number FLA011782 to transfer the permit from Sunray Utilities to United Water Florida, Inc. issued under section(s) 403.087 of the Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation within the appropriate time period shall constitute a waiver of that person's right to request an administrative

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57 for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation

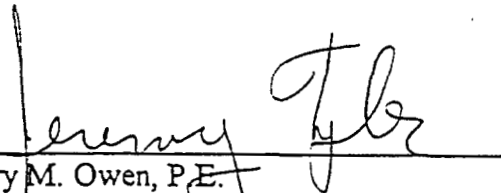
results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within fourteen days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under sections 120.569 and 120.57. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

This action is final and effective on the date filed with the Clerk of the Department unless a petition (or request for mediation) is filed in accordance with the above. Upon the timely filing of a petition (or request for mediation) this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

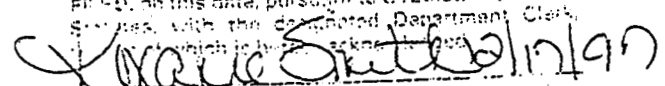
  
Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT TRANSFER and all copies were mailed by certified mail before the close of business on 12/17, 1997 to the listed persons.

Copies furnished to: <sup>BFW</sup>  
<sub>KAS</sub>

Robert P. Todd

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
which is hereby acknowledged.  




# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

CERTIFIED-RETURN RECEIPT  
April 25, 1994

Robert P. Todd, Vice President  
Sunray Utilities - St. Johns, Inc.  
Post Office Box 1708  
Fernandina Beach, Florida 32034

Dear Mr. Todd:

St. Johns County - Domestic Waste  
Sunray Utilities (St. Johns Forest WWTP)

Enclosed is Permit Number D055-245214 to operate the subject wastewater treatment plant, issued pursuant to Section(s) 403.087, Florida Statutes (F.S.).

Your special attention is directed to Specific Condition No. 13 which now requires 3 hours per day operator attendance, Specific Conditions No. 15, 16, and 17 concerning residuals, Specific Condition No. 23 concerning compliance with Chapter 17-610 FAC, Specific Condition No. 24 which requires more stringent reclaimed water monitoring and Specific Condition No. 25 which requires continuous total residual chlorine monitoring.

The Permittee is reminded of the necessity to comply with the pertinent regulations of any other State agency, as well as any County, Municipal, and Federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the regulations of other agencies.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

*This is our Dept. operation  
Permit for St. Johns Co.  
Please file accordingly.  
Thanks  
Muel*

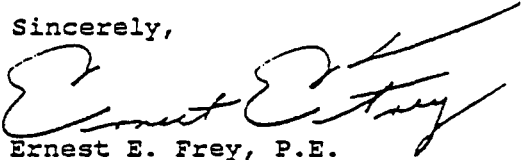
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, FAC.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, FAC. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

Sincerely,  
  
Ernest E. Frey, P.E.  
Director of District Management

*jff*  
*kk*  
EEF:KK/jf  
Attachment

cc: Sumner Waitz, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on *May 2*, 1994 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to S120 52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.  
*Judy A. Brown* Clerk      *5/2/94* Date



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7577

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Robert P. Todd, Vice President  
Sunray Utilities - St. Johns, Inc.  
Post Office Box 1708  
Fernandina Beach, Florida 32034

I.D. Number: 3155P02141  
Permit/Cert Number: DO55-245214  
Date of Issue: April 25, 1994  
Expiration Date: April 25, 1999  
County: St. Johns  
Lat/Long: 30°03'50"N/81°31'41"W  
Section/Township/Range: 18/5S/28E  
Project: Sunray Utilities  
(St. Johns Forest) WWTP

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-301, 17-302, 17-4, 17-600, 17-601, 17-602, 17-699, 17-610, and 17-640. The above named Permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To operate a 0.070 mgd extended aeration activated sludge wastewater treatment plant providing a minimum of secondary level treatment and high level disinfection with chlorinated reclaimed water discharging to two unsealed holding ponds and then to a 100-acre public access golf course spray irrigation system. The WWTP is designed to serve 255 single family homes with a population of 700.

Located approximately 3 miles west of I-95 off S.R. 210, St. Johns County, Florida.

In accordance with the application received February 11, 1994 and revised March 25, 1994.

PERMITTEE:

Robert P. Todd  
Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155P02141  
Permit Number: DO55-245214  
Date of Issue: April 25, 1994  
Expiration Date: April 25, 1999

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

PERMITTEE:

Robert P. Todd  
Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155P02141  
Permit Number: DOS5-245214  
Date of Issue: April 25, 1994  
Expiration Date: April 25, 1999

- a. Have access to and copy any records that must be kept under conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to educe, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 17-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.



PERMITTEE:

Robert P. Todd  
Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155P02141  
Permit Number: DO55-245214  
Date of Issue: April 25, 1994  
Expiration Date: April 25, 1999

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used;
  - the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE:

Robert P. Todd  
Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155P02141  
Permit Number: DO55-245214  
Date of Issue: April 25, 1994  
Expiration Date: April 25, 1999

SPECIFIC CONDITIONS:

1. Waste residuals or other solid wastes shall not be discharged into surface waters either directly or indirectly. These shall be disposed of in a manner approved by the Department.
2. The reclaimed water from this source shall be adequately chlorinated at all times so as to meet the high level disinfection requirements of Rule 17-600.440(5), FAC.
3. The personnel in charge of the operation, supervision, or maintenance of the treatment facilities shall meet the requirements of Chapter 17-699, FAC. Sampling and monitoring of this facility will be in accordance with Chapter 17-601, FAC.
4. The discharge authorized by this permit shall be consistent at all times with the water quality standards set forth in Chapters 17-301 and 17-302, FAC.
5. No additional connections shall be made to this facility without prior approval of this agency.
6. The permit holder shall also comply with county, municipal, federal and other state regulations.
7. During the period of operation allowed by this permit, the Permittee shall complete and submit on a monthly basis the monthly operation report [DER Form No. 17-601.900(1)] so as to be received by the Department by the twenty-eighth (28th) day of the month following the month of operation. The test site identification number for this facility to be entered under Part II, item (10) of each report is 3155X12695. Reports shall be submitted on a monthly basis to the Department of Environmental Protection, Northeast District Office, 7825 Baymeadows Way, Suite B-200 Jacksonville, Florida 32256-7590.
8. An Operation and Maintenance Manual for this facility shall be available at the facility for use by operation and maintenance personnel and for inspection by the Department in accordance with Rule 17-600.720, FAC.
9. Pursuant to Rule 17-602.360(1)(e), an operation and maintenance log shall be maintained in a location accessible to 24-hour inspection and current to the last operation and maintenance performed. The log at a minimum shall include identification of the plant; the signature and certification number of the operator; date and time in and out; specific operation and maintenance performed; tests performed and samples taken and major repairs made.
10. A copy of these permit conditions shall be forwarded by the Permittee to the lead operator and/or the utility company who is charged to maintain and operate this facility, if other than the owner, so as to comply with General Condition No. 12 above.
11. Appropriate warning signs shall be posted around the site boundaries to designate the nature of the project area.

PERMITTEE:

Robert P. Todd  
Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155P02141  
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Expiration Date: April 25, 1999

12. The public shall be notified of the use of reclaimed water. This shall be accomplished by the posting of advisory signs in the area where reuse is practiced, notes on scorecards, or by other methods.
13. According to Chapter 17-699, FAC, this is a Class C, Category I treatment process that requires the services of a certified operator (Class C or higher) for 3 hours per day for 5 days per week and one visit on each weekend day. The Permittee may reduce the required operator attendance to 1/2 hour per day for 5 days per week and a weekend visit provided the effluent daily flows do not exceed 0.050 mgd and the plant is not in violation of any Department rule.
14. In the event that the spray irrigation reclaimed water disposal system fails to percolate at the design loading rate the Permittee shall decrease the applied loading rate by reducing plant flow and/or increasing the area under irrigation.
15. The domestic wastewater residuals generated by this facility shall be disposed of at solid waste landfill in accordance with Chapter 17-7 FAC and Chapter 17-701, FAC.
16. When the land application of residuals is required to a site other than noted in Specific Condition No. 15 above, an Agricultural Use Plan and/or a Dedicated Site Plan shall be prepared and submitted to the Department prior to disposal of the residuals. The appropriate processing fee for inclusion of residuals disposal by land application shall be included if applicable with the submittal.
17. In order to conform with US EPA 40 CFR 503 Sludge Regulations, it is anticipated that proposed revisions of Chapter 17-640 FAC will require Class A or Class B stabilization prior to land application of residuals from all domestic wastewater treatment plants. Should this rule revision become effective, Class A or Class B stabilization shall be required and demonstrated in subsequent Agricultural Use Plan updates. A construction permit will be required for any modification of residuals handling equipment necessary to effect Class A or Class B stabilization.
18. The Permittee shall provide for the timely planning, design and construction of wastewater facilities necessary to provide proper treatment and reuse of domestic wastewater and management of domestic wastewater residuals. When the three-month average daily flow for the most recent three consecutive months exceeds 50 percent of the permitted capacity of the treatment facility, the Permittee shall submit to the Department a capacity analysis report pursuant to Rule 17-600.405 FAC.
19. All applications to renew operation permits shall include a detailed operation and maintenance performance report as described in Rule 17-600.735 FAC.
20. The Permittee shall submit to the Department updates to the initial capacity analysis report in accordance with the requirements of Rule 17-600.405 FAC.
21. The Permittee is responsible for submitting a reuse feasibility study (if required pursuant to Section 403.064 FS) together with the application for permit renewal.

PERMITTEE:

Robert P. Todd  
 Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155PO2141  
 Permit Number: DO55-245214  
 Date of Issue: April 25, 1994  
 Expiration Date: April 25, 1999

22. Field testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 17-160, FAC. Compliance of reported reclaimed water results shall be in accordance with Rule 17-4.246, FAC. Each reclaimed water parameter has an applicable method detection limit (MDL) and a practical quantitative limit (PQL) as follows:

ANALYTE	RECOMMENDED MDL	TARGETS PQL	EPA METHOD
Total chlorine			
Residual	10.0	10.0	330.1 or
	200.0	200.0	330.5
Nitrate	100.0	100.0	352.1

Units are microgram per liter  
 Equivalent methods are subject to approval by the Department.

23. Pursuant to Rule 17-610.110(2) FAC, the appropriate requirements of Part III of Chapter 17-610 FAC may be deemed applicable to this facility if violations of the specific conditions of this permit or Department regulations occurs. If violations occur, the Permittee shall have 60 days to submit to the Department a plan of corrective action and time schedule by which the corrective measures will be completed.
24. In accordance with Chapter 17-601 FAC, the monitoring requirements and reclaimed water limitations for this plant are as follows:

PARAMETER	RECLAIMED WATER LIMIT	MINIMUM FREQUENCY	SAMPLE TYPE	SAMPLE LOCATION
Flow (mgd)	0.070	Daily, 5/week	Elapsed Time Measurement	Influent or Reclaimed Water
CBOD <sub>5</sub> (mg/L)	(a)	Every 2 weeks	Grab	Influent (b) & Reclaim. Water(c)
TSS (mg/L)	(a)	Daily, 4 days/week	Grab	Influent (b) & Reclaim. Water(e)
NO <sub>3</sub> -N (mg/L)	(a)	Every 2 weeks	Grab	Reclaimed Water (c)
pH Units	6.0 - 8.5	Daily, 5/week	Grab	Reclaimed Water (c)
Chlorine				Reclaimed Water
Residual(mg/L)	1.0 Minimum	Continuous (g)	Grab	(d)
Fecal Coliform	Below detectable			Reclaimed Water
no./100 (mL)	limits (f)	Daily, 4 days/week	Grab	(c)

PERMITTEE:

Robert P. Todd  
Sunray Utilities (St. Johns Forest) WWTP

I.D. Number: 3155P02141  
Permit Number: DO55-245214  
Date of Issue: April 25, 1994  
Expiration Date: April 25, 1999

(a)

	ANNUAL	MONTHLY	WEEKLY	ONE TIME MAXIMUM
CBOD <sub>5</sub>	20	30*	45*	60*
TSS	5	5**	5**	5**
NO <sub>2</sub> -N	12	12***	12***	12***

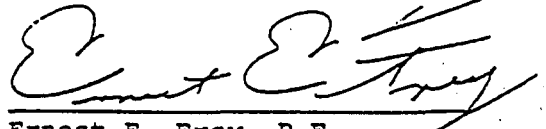
- \* Rule 17-600.740, FAC
- \*\* Rule 17-610.460, FAC
- \*\*\* Rule 17-610.464, FAC

- (b) Influent samples shall be collected so that they do not contain digester supernatant or returned activated sludge, or any other plant process waters.
- (c) Reclaimed water samples shall be collected after final treatment and immediately before discharge to the unlined holding ponds.
- (d) The total residual chlorine content of the reclaimed water at the exit of the chlorine contact chamber shall at all times not be less than 1.0 mg/L.
- (e) The total suspended solids (TSS) limitation shall be achieved before disinfection.
- (f) Over a 30-day period, 75% of the fecal coliform values shall be below detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 ml of sample.
- (g) Hourly measurements during the period of required operator attendance may substitute for continuous measurement until the requirements of Specific Condition No. 25 of this permit are achieved.

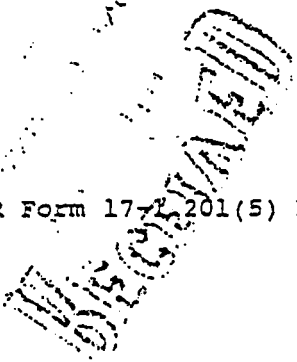
- 25. Within six months of the permit issue date, the Permittee shall have installed continuous chlorine residual monitoring devices to provide for continuous measurement of total residual chlorine in accordance with the requirements of Chapter 17-601 FAC "Figure 2".
- 26. The Permittee shall, prior to 60 days before the expiration of this permit, apply for an operation permit on forms and in a manner prescribed by the Department, Section 17-4.09, FAC. It is highly recommended that the wastewater treatment plant and disposal system be evaluated prior to the submittal of an operation permit application so it can be established that there are no violations of current Department regulations. If there is noncompliance, the Department should be contacted as to the appropriate type of permit to obtain.

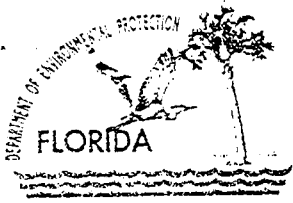
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STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

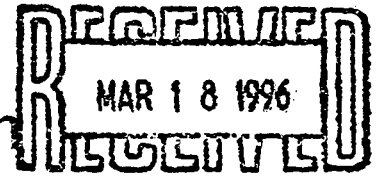


Ernest E. Frey, P.E.  
Director of District Management





# Department of Environmental Protection



✓ G. Grimes

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

UNITED WATER FLORIDA  
Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT REVISION

CERTIFIED MAIL - RETURN RECEIPT

March 15, 1996

In the Matter of an Application  
for Permit by:

DEP File No. 283437

Mr. Philip Heil  
Vice President  
United Water Florida  
1400 Millcoe Road  
Jacksonville, Florida 32225

*File Permit Rev.  
SF 3-4-96 w. change  
cc: Tom Gaffner  
Scott Turner  
Dow House*

Dear Mr. Heil:

Duval County - Domestic Waste  
St. Johns North WWTP

Enclosed is a revision to Permit Number DO55-194157 to modify the approved residuals land application site issued pursuant to Section(s) 403.087, Florida Statutes. All other portions of this permit remain in effect and are fully enforceable. Specific conditions 13, 14, 15, and 16 are revised as follows:

### 13. Basic Management Requirements

- a. The method of residuals use or disposal by this facility is land application.
- b. The wastewater treatment facility permittee shall be responsible for proper handling, use, and disposal of its residuals and will be held responsible for any disposal violations that occur unless the permittee can demonstrate that the treatment facility to which the residuals are transported has legally agreed in writing to accept responsibility for proper treatment and disposal. [62-640.300(3), 3-1-91]
- c. Land application of residuals shall be in accordance with the conditions of this permit and the requirements of Chapter 62-640, F.A.C. [62-640, 3-1-91]
- d. The domestic wastewater residuals for this facility are classified as Class B.
- e. The permittee shall sample and analyze the residuals at least once every 3 months. All samples shall be representative and shall be taken after final treatment of the residuals but before use or disposal. Sampling and analysis shall be in accordance with the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. The following parameters shall be sampled and analyzed:

Parameter	Maximum Concentration	Maximum Cumulative Loading
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Cadmium	100 mg/kg dry weight	4.4 pounds /acre*
Copper	3000 mg/kg dry weight	125 pounds/acre
Lead	1500 mg/kg dry weight	500 pounds/acre
Nickel	500 mg/kg dry weight	125 pounds/acre
Zinc	10,000 mg/kg dry weight	250 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

\* The annual application rate for cadmium shall not exceed 0.5 pounds/acre/year.

f. Florida water quality criteria and standards shall not be violated as a result of land application of residuals. [62-640.700(3)(c), 3-1-91]

#### 14. Agricultural Sites

a. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]

b. Class B residuals application shall be in accordance with the Agricultural Use Plan approved by the Department for this facility. [62-640.300(1), 3-1-91]

c. Root crops, and fruits and vegetables which touch the soil and which are to be consumed raw shall not be grown on the application site for 18 months after the last application of Class B residuals. [62-640.600(6)(c), 3-1-91]

d. Fruits and vegetables which do not touch the soil and which are to be consumed raw shall not be harvested from the application site for 30 days following the last application of Class B residuals. Orchard tree crops, which do not come in contact with the residuals due to the application method, are exempted. This exemption does not apply to orchard tree crops which have fallen to the ground before harvesting. [62-640.600(6)(d), 3-1-91]

e. Pasture vegetation on the application site shall not be cut or used for grazing by livestock for 30 days following the last application of Class B residuals. [62-640.600(6)(e), 3-1-91]

f. The public shall be restricted from the application area for 12 months after the last application of Class B residuals. [62-640.600(6)(f), 3-1-91]

- g. Annual residuals application rates shall not exceed the agronomic rates based on the nitrogen requirements of the site vegetation in accordance with the approved Agricultural Use Plan. [62-640.700(3)(d), 3-1-91]
  - h. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
  - j. The pH of the domestic wastewater residuals soil mixture shall be 6.5 or greater at the time domestic wastewater residuals are applied. At a minimum, testing shall be done annually. [62-640.700(3)(h), 3-1-91]
15. The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites. The current Agricultural Use Plan identifies residuals land spreading on the following sites:

Site Name	Application Area (acres)	Site Location	
		City	County
Maguire Timber	50	St. Augustine	St. Johns
Higgenbotham	263	Jacksonville	Duval
Cope Farm	134.4	Jacksonville	Duval

- Temporary storage of residuals prior to land application at the Cope Farm site shall occur at the Duval Septic Tank Company, Inc. site located at 5340 Soutel Drive, Jacksonville, Duval County, Florida in accordance with the operation protocol received by the Department on February 13, 1996. Each storage tank shall be numbered and a separate log maintained for each tank. The duration of storage in any one tank shall not exceed one month. Records shall be maintained at the Duval Septic Tank Company site for on-site storage and made available for Department review upon request. A minimum of three years of records shall be maintained. The grounds surrounding the storage tanks shall also be maintained to allow for proper inspection by the Department. [62-620.330, 11-29-94; 62-640.700(3)(o), 3-1-91]
16. The permittee shall maintain records of application areas and application rates on DEP Form 62-640.900(3) and shall have these records available for inspection upon request by the Department or the appropriate Local Environmental Program. These records shall include:
- a. Date of application of the residuals,
  - b. Location of the residuals application site,
  - c. Amount of residuals applied or delivered,
  - d. Identification of specific areas of the site where residuals were applied and acreage of that area,
  - e. Method of incorporation of residuals (if any),
  - f. Water table level at time of application, and
  - g. Concentration of nitrogen and heavy metals in the residuals, percent solids, and date of last analysis.

The permittee shall provide: annual updates to the Agricultural Use Plan(s) to reflect any changes in domestic wastewater residuals characteristics or agricultural practices; summaries of the total residuals, nitrogen, and heavy metals applied on an annual basis; and annual summaries of the cumulative metals applied. Updates to the Agricultural Use Plan and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis



for that period, shall be submitted to the Department's Northeast District Office by February 15th of each year. [62-640.700(3)(e) and (p), 3-1-91]

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes. The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

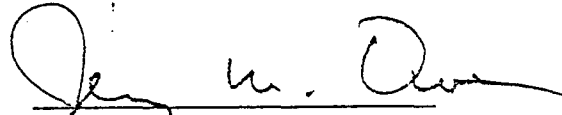
This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of

a petition or a request for an extension of time this permit will not be effective until further Order of the Department.


When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Jerry M. Owen, P.E.  
Water Facilities Administrator

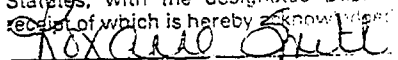


JMO/DJB/rms  
cc: David Neldner

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT REVISION and all copies were mailed by certified mail before the close of business on March 15, 1996 to the listed persons.

FILING AND ACKNOWLEDGEMENT  
FILED on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department  
receipt of which is hereby acknowledged

 3/15/96  
Clerk



# Department of Environmental Protection

CC Don Hoken  
Scott  
H. H. H.

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary  
*File - FOSP current permit*

CERTIFIED, RETURN  
RECEIPT REQUESTED

RECEIVED

December 11, 1996

DEC 13 1996

In the Matter of an  
Application for Permit by:

DEP File No. UW287448 WATER FLORIDA  
St. Johns County  
St. Johns North WWTF

United Water Florida Inc.  
Mr. M. Sambamurthi  
Vice President-Manager  
1400 Millcoe Road  
Jacksonville, FL 32225

## NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0117668 to operate an existing 0.225 MGD AADF design capacity conventional activated sludge wastewater treatment plant issued under section(s) Chapter 403 F.S. and Chapters 62-4 and 62-620 FAC.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes, or all parties may reach a written agreement on mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation.

The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition (or a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the Department's permit identification number and the county in which the subject matter or activity is located;
- (b) a statement of how and when each petitioner received notice of the Department's action;
- (c) a statement of how each petitioner's substantial interests are affected by the department's action;
- (d) a statement of the material facts disputed by the petitioner, if any;
- (e) a statement of facts that the petitioner contends warrant reversal or modification of the Department's action;
- (f) a statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action; and
- (g) and a statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which includes the Department and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

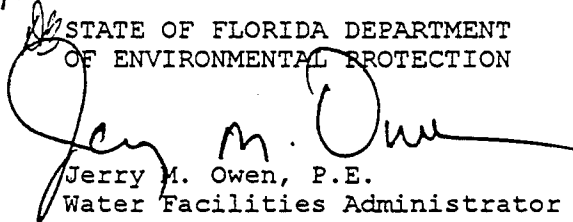
- (a) the names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) the name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) the agreed allocation of the costs and fees associated with the mediation;
- (d) the agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) the date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) the name of each party's representative who shall have authority to settle or recommend settlement;
- (g) either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this action or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and
- (h) the signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by section 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under section 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

This action is final and effective on the date filed with the Clerk of the Department unless a petition (or request for mediation) is filed in accordance with the above. Upon the timely filing of a petition (or request for mediation) this order will not be effective until further order of the Department.

Any party to the order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

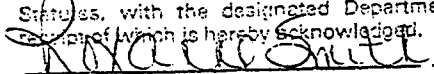
*BFW*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
  
Jerry M. Owen, P.E.  
Water Facilities Administrator

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on December 16, 1996 to the listed persons.

Copies furnished to:

- Gordon Grimes, P.E.
- Mitchell Griffin, Ph.D., P.E.
- Daryll Joyner, DEP

FILING AND ACKNOWLEDGEMENT  
Filed on this date, pursuant to §120.52, Florida  
Statutes, with the designated Department Clerk,  
of which is hereby acknowledged.  
  
Clerk Date 12/16/96



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

December 11, 1996

IN THE MATTER OF:

IN THE OFFICE OF THE NORTHEAST DISTRICT

Mr. M. Sambamurthi  
Vice President-Manager  
United Water Florida  
1400 Millcoke Road  
Jacksonville, Florida 32225

Administrative Order No.: AO 024 NE

DEP Permit No: FL0117668

ORDER ESTABLISHING COMPLIANCE SCHEDULE UNDER SECTION 403.088(2)(f), F.S.

## I. STATUTORY AUTHORITY

The Department of Environmental Protection (Department) issues this order under the authority of section 403.088 of the Florida Statutes. The Secretary of the Department has delegated this authority to the Director of District Management, who issues this order and makes the following findings of fact.

## II. FINDINGS OF FACT

1. United Water Florida is a person under Section 403.031 of the Florida Statutes.
2. United Water Florida owns and operates a domestic wastewater treatment facility located at 2369 Hawkcrest Drive East, Fruit Cove, St. Johns County, Florida which unlawfully discharges treated wastewater into Big Lige Creek, waters of the state as defined in section 403.031 of the Florida Statutes.
3. United Water Florida has applied for a permit under-section 403.088(2) of the Florida Statutes.
4. United Water Florida's discharge does not/will not meet the following specific conditions of DEP Permit No. FL0117668: I.A.1 through I.A.7.
5. Sections 403.088(2)(e) and (f) of the Florida Statutes authorize the Department to issue a permit for the discharge of wastes into waters of the state, accompanied by an order establishing a schedule for achieving compliance with all permit conditions if the specified criteria are met.

6. The Department finds that

- (1) The applicant is constructing, installing, or placing into operation, or has submitted plans and a reasonable schedule for constructing, installing, or placing into operation, an approved pollution abatement facility or alternative waste disposal system;
- (2) The applicant needs permission to discharge treated wastewater to waters within the state for a period of time necessary to complete research, planning, construction, installation, or operation of an approved and acceptable pollution abatement facility or alternative waste disposal system;
- (3) There is no present, reasonable, alternative means of disposing of the waste other than by discharging it into waters of the state;
- (4) The granting of an operation permit will be in the public interest; or
- (5) The discharge will not be unreasonably destructive to the quality of the receiving waters.

III. ORDER

Based on the foregoing findings of fact, IT IS ORDERED,

1. United Water Florida shall complete the following tasks as scheduled below:

	Implementation Step	Completion Date
1	Complete construction to upgrade facility to meet Class I reliability including installation of proposed secondary clarifier and percolation pond underdrains.	February 19, 1997
2	Submit Certification of Construction Completion Form 62-620.910(12) for Class I reliability upgrade.	March 19, 1997
3	Complete conceptual plans for wastewater system disposal alternative.	October 30, 1996
4	Submit Preliminary Design Report and permit application for wastewater treatment and effluent disposal system improvements.	December 15, 1997
5	Acquire site and begin construction of wastewater treatment and effluent disposal system improvements.	July 1, 1998
6	Place new wastewater treatment and effluent disposal system into service.	December 1, 1999

Administrative Order AO 024 NE  
 United Water Florida - St. Johns North WWTF - FL0117668

2. During the period beginning on the issuance date and lasting through the completion of the implementation schedule outlined under item III-1. of this order, the permittee is authorized to discharge effluent from Outfalls D001 and D002 to Big Lige Branch. Such discharges shall be limited and monitored by the permittee as specified below:

a. Effluent Limitations and Monitoring Conditions for Outfall D001:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements				
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes	
Flow through WWTP	mgd	Maximum	0.225	0.225			5 Days/Week	Recording flow meters and totalizers	EFA-1	See Cond.2.c.	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	20.0	30.0	40.0	Every two weeks	8-hour Composite	OUT-1		
Total Suspended Solids	mg/L	Maximum				5.0	4 Days/Week	Grab	EFA-2		
Fecal Coliform Bacteria	See Condition 2.e.							4 Days/Week	Grab	EFA-1	
pH	std. units	Range				6.0 to 7.5	5 Days/Week	Grab	OUT-1		
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				1.0	5 Days/Week	Grab	EFA-1	See Cond.2.f.	
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Every two weeks	Grab	OUT-1		
Nitrogen, Total Ammonia as N	mg/L as N	Maximum	2.2	2.75	3.3	4.4	Every two weeks	8-hour Composite	OUT-1		
Oxygen, Dissolved (DO)	mg/L	Minimum				5.0	5 Days/Week	Grab	OUT-1		
NO3-Nitrogen, Total as N	mg/L as N	Maximum				12.0	Every two weeks	8-hour Composite	EFA-1		



b. Effluent Limitation and Monitoring Conditions for Outfall D002:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Flow through WWTP	mgd	Maximum	0.225	0.225			5 Days/Week	Recording flow meters and totalizers	EFA-1	See Cond.2.d.	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20.0	20.0	30.0	40.0	Every two weeks	8-hour Composite	OUT-2		
Total Suspended Solids	mg/L	Maximum				5.0	4 Days/Week	Grab	EFA-2		
Fecal Coliform Bacteria	See Condition 2.e.						4 Days/Week	Grab	EFA-1		
pH	std. units	Range				6.0 to 7.5	5 Days/Week	Grab	OUT-2		
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				1.0	5 Days/Week	Grab	EFA-1	See Cond.2.f.	
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Every two weeks	Grab	OUT-2		
Nitrogen, Total Ammonia as N	mg/L as N	Maximum	2.2	2.75	3.3	4.4	Every two weeks	8-hour Composite	OUT-2		
Oxygen, Dissolved (DO)	mg/L	Minimum				5.0	5 Days/Week	Grab	OUT-2		
NO3-Nitrogen, Total as N	mg/L as N	Maximum				12.0	Every two weeks	8-hour Composite	EFA-1		

- c. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I. A. 1. and as described below:

Monitoring Location Site	Description of Monitoring Location
EFA-1	discharge from chlorine contact chamber
EFA-2	chlorine contact chamber influent
OUT-1	discharge from underdrain system to D001
OUT-2	discharge form underdrain system to D002

- d. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
- e. Over a 30 day period, 75 percent of the fecal coliform values (the 75th percentile value) shall be below the detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 5.0 milligrams per liter of total suspended solids (TSS) at a point before application of the disinfectant. Note: To report the 75th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 75th percentile (multiply the number of samples by 0.75). For example, for 30 samples, report the corresponding fecal coliform number for the 23rd value of ascending order. [62-600.440(5)(f), 6-8-93]
- f. A minimum of 1.0 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(5)(b) and (6)(b), 6-8-93]
- g. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of DEP Permit No. FL0117668. [Chapter 62-620.320(9) and 62-302.510(5), FAC]
- h. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC.
- i. The design capacity of the WWTP and the interim effluent flow through WWTP limit may be increased to a maximum 0.30 mgd annual average daily flow as measured at effluent point EFA-1 upon completion of permitting and construction of improvements to increase the WWTP design capacity and upon written approval from the Department.
3. United Water Florida shall provide this office with quarterly reports outlining progress toward compliance with the time frames specified in paragraph 1 of this section, beginning on December 1, 1996.
4. United Water Florida shall maintain and operate its facilities in compliance with all other conditions of DEP Permit No. FL0117668.

5. This order may be modified through revisions as set forth in chapter 62-620 of the Florida Administrative Code.
6. Reports or other information required by this order shall be sent to David J. Bolam, P.E., at the Northeast District Office.
7. This order does not operate as a permit under section 403.088 of the Florida Statutes. This order shall be incorporated by reference into DEP Permit No. FL0117668, which shall require compliance by the permittee with the requirements of this order.
9. Failure to comply with the requirements of this order shall constitute a violation of this order and DEP Permit No. FL0117668, and may subject the permittee to penalties as provided in section 403.161 of the Florida Statutes.
10. This order is final when filed with the clerk of the Department, and United Water Florida then shall implement this order unless a petition for an administrative proceeding (hearing) is filed in accordance with the notice set forth in the following section.

#### IV. NOTICE OF RIGHTS

Persons whose substantial interests are affected by this order may petition for an administrative proceeding (hearing) in accordance with section 120.57 of the Florida Statutes. The petition must conform to the requirements of rule 62-103 of the Florida Administrative Code, and must be filed (received) in the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57 of the Florida Statutes.

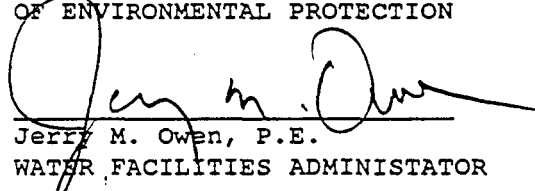
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed under model rule 28-5.207, F.A.C., at least five days before the final hearing with the hearing officer (if one has been assigned) at the Division of Administrative Hearings, The DeSoto Building, 1230 Apalachee Parkway, Tallahassee, Florida 32399-1550. If no hearing officer has been assigned, the petition is to be filed with the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to file a petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under section 120.57 of the Florida Statutes.

Administrative Order AO 02-NE  
United Water Florida - St. Johns North WWTF - FL0117668

Any party to this order has the right to seek judicial review of the order under section 120.68 of the Florida Statutes, by the filing of a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

DONE AND ORDERED on this 16 day of December, 1996 in Jacksonville, Florida.

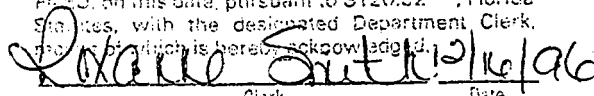
*JS*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
JERRY M. OWEN, P.E.  
WATER FACILITIES ADMINISTRATOR

Copies furnished to:  
Gordon E. Grimes, P.E.  
Daryll Joyner, DEP

FILING AND ACKNOWLEDGEMENT

FILED on this date, pursuant to §120.82, Florida Statutes, with the designated Department Clerk, the contents of which is hereby acknowledged.

  
Clerk Date



# Department of Environmental Protection

Lawton Chiles  
Governor

Northeast District  
7825 Baymeadows Way, Suite B200  
Jacksonville, Florida 32256-7590

Virginia B. Wetherell  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
United Water Florida  
1400 Millcoe Road  
Jacksonville, FL 32225-4442

**PERMIT NUMBER:** FL0117668  
**ISSUANCE DATE:** December 11, 1996  
**EXPIRATION DATE:** December 11, 2001  
**APPLICATION No.:** 287448

### RESPONSIBLE AUTHORITY:

Mr. M. Sambumurthi, Vice President-Manager

### FACILITY:

St. Johns North WWTF  
2369 Hawkcrest Drive East  
St. Johns County  
Fruit Cove, FL 32259  
Latitude: 30° 05' 30" N Longitude: 81° 36' 25" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named permittee is hereby authorized to construct and operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

### TREATMENT FACILITIES:

A 0.225 MGD AADF design capacity conventional activated sludge wastewater treatment plant consisting of an influent pumping station with bar screen, dual aeration basins (112,200 gallons total volume), a single secondary clarifier (530 SF), two chlorine contact chambers (16,672 gallons each), and an emergency generator. Wastewater residuals are aerobically treated to meet Class B stabilization requirements and hauled to an approved land application site.

Proposed construction under this permit includes a 310 SF secondary clarifier, an underdrain system for both the northern and southern percolation ponds and construction of a new outfall, D002, to Big Lige Branch from the proposed underdrain system for the southern ponds. The underdrain systems shall include a sampling manhole, on-site and immediately prior to the discharge outfall pipelines. The Permittee is also authorized to construct two Aquadisk effluent filter units with three disks per unit if needed to meet high level disinfection requirements.

### EFFLUENT DISPOSAL:

**Surface Water Discharge:** A 0.045 MGD annual average daily flow (AADF) permitted discharge to Big Lige Branch (Class III waters). Treated wastewater effluent will be discharged to Big Lige Branch at two locations: at the existing north percolation ponds outfall (D001) and at the proposed south percolation ponds outfall (D002). The proposed north ponds underdrain shall connect to an existing french drain which discharges to Big Lige Branch at approximate latitude 30° 05' 30" N, longitude 81° 36' 25" W. Proposed outfall D002 will be constructed at the existing WWTP site with discharge to Big Lige Branch south of the facility site.

**PERMITTEE:**

United Water Florida - St. Johns North WWTF  
1400 Millcoe Road  
Jacksonville, FL 32225-4442

**PERMIT NUMBER:**

FL0117668

**ISSUANCE DATE:**

December 11, 1996

**EXPIRATION DATE:**

December 11, 2001

**APPLICATION No.:**

287448

Administrative Order AO 024 NE is being issued in conjunction with this permit and allows for the temporary discharge of 0.225 MGD AADF of treated wastewater effluent to Big Lige Branch via existing Outfall D001 and proposed Outfall D002. The temporary discharge is being allowed during an interim period during which the Permittee shall complete an investigation of alternative effluent disposal methods and design, apply for and obtain a permit, construct and place into operation the selected and approved alternative wastewater disposal method. Upon placing the alternative wastewater disposal method into service, the Administrative Order AO 024 NE shall become inactive and all of the conditions and limitations contained herein for the operation of the St. Johns North WWTP and effluent disposal to Big Lige Branch shall become effective and fully enforceable.

**IN ACCORDANCE WITH:** The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 20 of this permit and Administrative Order AO 24 NE.

**PERMITTEE:**  
 United Water Florida - St. Johns North WWTF  
 1400 Millcoe Road  
 Jacksonville, FL 32225-4442

**PERMIT NUMBER:** FL0117668  
**ISSUANCE DATE:** December 11, 1996  
**EXPIRATION DATE:** December 11, 2001  
**APPLICATION No.:** 287448

**I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**A. Surface Water Discharges**

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D001 to Big Lige Branch. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Flow through WWTP	mgd	Maximum	0.045	0.045			5 Days/Week	Recording flow meters and totalizers	EFA-1	See Cond.I.A.4	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	5.0	6.3	7.5	10.0	Monthly	8-hour Composite	OUT-1		
Total Suspended Solids	mg/L	Maximum				5	4 Days/Week	Grab	EFA-2		
Fecal Coliform Bacteria	See Permit Condition I.A.5.						4 Days/Week	Grab	EFA-1		
pH	std. units	Range				6.0 to 7.5	5 Days/Week	Grab	OUT-1		
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				1.0	5 Days/Week	Grab	EFA-1	See Cond.I.A.6	
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Monthly	Grab	OUT-1		
Nitrogen, Total Ammonia as N	mg/L as N	Maximum	1.2	1.5	1.8	2.4	Monthly	8-hour Composite	OUT-1		
Oxygen, Dissolved (DO)	mg/L	Minimum				5.0	5 Days/Week	Grab	OUT-1		
NO3-Nitrogen, Total as N	mg/L as N	Maximum				12.0	Monthly	Grab	EFA-1		

**PERMITTEE:**  
 United Water Florida - St. Johns North WWTF  
 1400 Millcoe Road  
 Jacksonville, FL 32225-4442

**PERMIT NUMBER:** FL0117668  
**ISSUANCE DATE:** December 11, 1996  
**EXPIRATION DATE:** December 11, 2001  
**APPLICATION No.:** 287448

2. During the period beginning on completion of the southern ponds underdrain and outfall D002 and lasting through the expiration date of this permit, the permit is authorized to discharge effluent from Outfall D002 to Big Lige Branch. Such discharge shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Mfn	Effluent Limitations				Monitoring Requirements				Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number		
Flow through WWTP	mgd	Maximum	0.045	0.045			5 Days/Week	Recording flow meters and totalizers	EFA-1	See Cond.I.A.4	
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	5.0	6.3	7.5	10.0	Monthly	8-hour Composite	OUT-2		
Total Suspended Solids	mg/L	Maximum				5	4 Days/Week	Grab	EFA-2		
Fecal Coliform Bacteria	See Permit Condition I.A.5.						4 Days/Week	Grab	EFA-1		
pH	std. units	Range				6.0 to 7.5	5 Days/Week	Grab	OUT-2		
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				1.0	5 Days/Week	Grab	EFA-1	See Cond.I.A.6	
Total Residual Chlorine (For Dechlorination)	mg/L	Maximum				0.01	Monthly	Grab	OUT-2		
Nitrogen, Total Ammonia as N	mg/L as N	Maximum	1.2	1.5	1.8	2.4	Monthly	8-hour Composite	OUT-2		
Oxygen, Dissolved (DO)	mg/L	Minimum				5.0	5 Days/Week	Grab	OUT-2		
NO3-Nitrogen, Total as N	mg/L as N	Maximum				12.0	Monthly	Grab	EFA-1		



**PERMITTEE:**  
 United Water Florida - St. Johns North WWTF  
 1400 Millcoe Road  
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3. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and I.A.2. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFA-1	discharge from chlorine contact chamber
EFA-2	chlorine contact chamber influent
OUT-1	discharge from underdrain system to D001
OUT-2	discharge from underdrain system to D002

Until completion of construction of the northern ponds underdrain system, compliance sampling for Outfall D001 shall be conducted in the existing catch basin connected to the french drain.

4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and 500(6), 5-31-93]
5. Over a 30 day period, 75 percent of the fecal coliform values (the 75th percentile value) shall be below the detection limits. Any one sample shall not exceed 25 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 5.0 milligrams per liter of total suspended solids (TSS) at a point before application of the disinfectant. Note: To report the 75th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 75th percentile (multiply the number of samples by 0.75). For example, for 30 samples, report the corresponding fecal coliform number for the 23rd value of ascending order. [62-600.440(5)(f), 6-8-93]
6. A minimum of 1.0 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(5)(b) and (6)(b), 6-8-93]
7. Florida water quality criteria and standards shall not be violated as a result of the discharge. Compliance with any changes to these criteria or standards which may occur after the issuance date of this permit as a result of statutory changes or Department rule revisions shall be in accordance with General Condition 12 of this permit. [Chapter 62-620.320(9) and 62-302.510(5), FAC]
8. Field Testing, sample collection and preservation, laboratory testing, including quality control procedures, and all record keeping shall comply with Chapter 62-160, FAC. Compliance of reported results shall be in accordance with Rule 62-4.246, FAC.