

State of Florida



Public Service Commission

-M-E-M-O-R-A-N-D-U-M-

DATE: February 21, 2000
TO: Division of Records and Reporting
FROM: Division of Water and Wastewater (Lingo)
RE: Docket No. 970409-SU, Initiation of limited proceeding to restructure wastewater rates for Florida Water Service Corporation's Tropical Isles service area in St. Lucie County

Please file the attached documents in the above-referenced docket file. Thank you.

\FJL

Attch: 01/22/98 letter from FWSC/Feil to WAW/Lingo -- response to request for information w/attchs A-D

cc w/ Attch: Division of Legal Services (Gervasi, Fudge)

- AFA _____ c:\trop\0217rar6.mem
- APP _____
- CAF _____
- CMU _____
- CTR _____
- EAG _____
- LEG _____
- MAS _____
- OPC _____
- RRR _____
- SEC I
- WAW _____
- OTH _____

DOCUMENT NUMBER-DATE

02324 FEB 21 8

FPSC-RECORDS/REPORTING



RECEIVED
JAN 23 1998

Florida Public Service Commission
Division of Water and Wastewater

January 22, 1998

Ms. Jennie Lingo
Economic Analyst
Division of Water & Wastewater
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0865

by Federal Express

Re: Request for Information on Tropical Isles Facility
in St. Lucie County

Dear Ms. Lingo:

On behalf of Florida Water Services Corporation ("Florida Water"), I write in response to your letter dated January 15, 1998, which was received by facsimile transmission January 16, 1998.

Florida Water does not object to producing the attached information at this time. However, by producing said information, Florida Water does not waive any of its legal rights in this matter. Florida Water responds to your enumerated document requests as follows:

Please refer to the MFRs, Vol. III, Book 6 [Docket No. 950495-WS]

- 1) **The individual line items of plant in service as of 9/30/88 that correspond to the \$457,467 figure shown on Schedule A-4(S), page 550. Please provide this information in the same detail as the individual plant account balances shown on Schedule A-6(S), page 552, column (2).**

Please refer to "Attachment A."

- 2) **The individual line items of accumulated depreciation as of 9/30/88 that are associated with the plant in service figure of \$457,467 referenced above. Please provide this information in the same detail as the individual accumulated depreciation balances shown on Schedule A-10(S), page 562, column (2).**

Please refer to "Attachment B."

- 3) **A description of each plant addition shown on Schedule A-4(S), page 550, as well as the amount and account to which each addition was booked.**

Please refer to "Attachment C." The first page of Attachment C was included in the Docket No. 950495-WS MFRs, specifically Volume II, Book 4. Note that the 1995 additions shown on the first page were projected for that rate case. Actual additions for 1995, as well as 1996 and 1997, appear on the second page of Attachment C. Attachment A reflects the booking information for the additions referenced.

Other information

- 1) **A copy of the DEP operating permit.**

See "Attachment D."

- 2) **DEP monthly operating reports for 1997.**

The reports requested were hand delivered to you at the Tropical Isle facility on the date of this letter.

- 3) **Actual O&M expenses for 1997, separated by account number. For each expense that is allocated, please explain the allocation method and provide the associated amount allocated to that expense.**

The data requested was not available as of the date of this letter.

- 4) **A description of any planned or anticipated plant improvements or expenses during the next 12 months, and the anticipated month (if known) that the plant improvement or expense will be made or incurred. If any of these items are the result of a DEP requirement, please explain.**

The data requested was not available as of the date of this letter.

- 5) **Customer growth from 12/31/95 to 12/31/97.**

Customer growth for the years in question was as follows:

	<u>1995</u>	<u>1996</u>	<u>1997</u>	Compound Growth Rate <u>1995-1997</u>
Number of bills in December	230	241	244	3.00%

- 6) For each plant addition that has occurred subsequent to the test year in Docket No. 950495-WS, please indicate the account in which the addition was recorded, and the amount of the addition.

For additions through the end of 1997, please refer to "Attachment A."

If you have any questions or comments concerning this information, please call me at (407) 884-8777, ext. 260.

Sincerely yours,



Matthew Feil, Esq.
Staff Attorney

Attachments

ATTACHMENT A

Consisting of 5 Pages

PLANT IN SERVICE DOLLARS - SEWER
- Additions and Balances Subsequent to
Last Established Rate Base -
Company: SSU / St. Lucie / Tropical Isles
SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	Last Established Rate Base Date 9/30/88	FPSC Adjustments	Rate Base Date 9/30/88	Utility Adjustments	Adjusted Rate Base 9/30/88	9/30/88 Balance	3 mo's 1988 Additions	1988 Retirements	1988 Adjustments	1988 Balance
INTANGIBLE PLANT											
351.1	Organization	0		0		0	0	2,458			2,458
352.1	Franchises	0		0		0	0	(2)			(2)
389.1	Other Plant & Misc.	0		0		0	0	10			10
COLLECTION PLANT											
353.2	Land & Land Rights	0		0		0	0	4			4
354.2	Structures & Improvements	0		0		0	0	(33)			(33)
360.2	Collection Sewers - F	127,920		127,920		127,920	127,920	199			128,119
361.2	Collection Sewers - G	39,100		39,100		39,100	39,100	(60)			39,040
362.2	Special Collecting	0		0		0	0	0			0
363.2	Services to Customers	18,950		18,950		18,950	18,950	69			19,019
364.2	Flow Measuring Devices	0		0		0	0	0			0
365.2	Flow Measuring Installation	0		0		0	0	1			1
389.2	Other Plant & Misc. Equipment	0		0		0	0	8			8
SYSTEM PUMPING PLANT											
353.3	Land & Land Rights	0		0		0	0	0			0
354.3	Structures & Improvements	0		0		0	0	5			5
370.3	Receiving Wells	0		0		0	0	16			16
371.3	Pumping Equipment	0		0		0	0	45			45
389.3	Other Plant & Misc. Equipment	0		0		0	0	16			16
TREATMENT AND DISPOSAL PLANT											
353.4	Land & Land Rights	0		0		0	0	17			17
354.4	Structures & Improvements	120,768		120,768		120,768	120,768	36			120,804
380.4	Treatment & Disposal	150,729		150,729		150,729	150,729	(20)			150,709
381.4	Plant Sewers	0		0		0	0	0			0
382.4	Outfall Sewer Lines	0		0		0	0	153			153
389.4	Other Plant & Misc. Equipment	0		0		0	0	13			13
GENERAL PLANT											
353.5	Land & Land Rights	0		0		0	0	4			4
354.5	Structures & Improvements	0		0		0	0	15			15
390.5	Office Furniture & Equipment	0		0		0	0	57			57
390.51	Computer Equipment	0		0		0	0	0			0
391.5	Transportation Equipment	0		0		0	0	25			25
392.5	Stores Equipment	0		0		0	0	0			0
393.5	Tools, Shop, & Garage	0		0		0	0	26			26
394.5	Laboratory Equipment	0		0		0	0	5			5
395.5	Power Operated Equipment	0		0		0	0	5			5
396.5	Communication Equipment	0		0		0	0	10			10
397.5	Miscellaneous Equipment	0		0		0	0	(1)			(1)
398.5	Other Tangible Plant	0		0		0	0	0			0
TOTAL SEWER PLANT IN SERVICE		457,467	0	457,467	0	457,467	457,467	3,081	0	0	460,548

Note: Total Company General Plant assets were allocated to the plant level based on average number of customers for 1993 and 1994. Please see the allocation schedules Volume II, Book 2 of 4 for the detailed allocations to each plant. 1996 and General plant balances is based on 1996 Annual Report. 1997 Annual Report numbers are not yet available.

PLANT IN SERVICE DOLLARS - SEWER
- Additions and Balances Subsequent to
Last Established Rate Base -
Company: SSU / St. Lucie / Tropical Isles
SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	1989 Additions	1989 Retirements	1989 Adjustments	1989 Balance	1990 Additions	1990 Retirements	1990 Adjustments	1990 Balance	1991 Additions	1991 Retirements	1991 Adjustments	1991 Balance
INTANGIBLE PLANT													
351.1	Organization	2,223			4,681	171			4,852	54	4,906		0
352.1	Franchises				(2)				(2)	466			464
389.1	Other Plant & Misc.				10				10				10
COLLECTION PLANT													
353.2	Land & Land Rights				4				4				4
354.2	Structures & Improvements				(33)				(33)				(33)
360.2	Collection Sewers - F	0			128,119				128,119				128,119
361.2	Collection Sewers - G	0			39,040				39,040				39,040
362.2	Special Collecting	0			0				0				0
363.2	Services to Customers	0			19,019				19,019				19,019
364.2	Flow Measuring Devices				0				0				0
365.2	Flow Measuring Installation				1				1				1
389.2	Other Plant & Misc. Equipment				8				8				8
SYSTEM PUMPING PLANT													
353.3	Land & Land Rights				0				0				0
354.3	Structures & Improvements				5				5				5
370.3	Receiving Wells				16				16				16
371.3	Pumping Equipment	846			891				891	897			1,788
389.3	Other Plant & Misc. Equipment				16				16				16
TREATMENT AND DISPOSAL PLANT													
353.4	Land & Land Rights				17				17	425			442
354.4	Structures & Improvements	56			120,860				120,860				120,860
380.4	Treatment & Disposal	1,341			152,050				152,050	169			152,219
381.4	Plant Sewers				0				0				0
382.4	Outfall Sewer Lines				153				153				153
389.4	Other Plant & Misc. Equipment				13				13				13
GENERAL PLANT													
353.5	Land & Land Rights				4				4				4
354.5	Structures & Improvements				195				195				195
390.5	Office Furniture & Equipment	1,698	308		1,447				1,447				1,447
390.51	Computer Equipment				0				0				0
391.5	Transportation Equipment	410	14		421				421				421
392.5	Stores Equipment	0	0		0				0				0
393.5	Tools, Shop, & Garage	1	16		11				11				11
394.5	Laboratory Equipment	0	0		5				5				5
395.5	Power Operated Equipment	0	0		5				5				5
396.5	Communication Equipment	189	26		173				173				173
397.5	Miscellaneous Equipment	13	0		12				12				12
398.5	Other Tangible Plant	0	0		0				0				0
TOTAL SEWER PLANT IN SERVICE		6,957	364	0	467,141	171	0	0	467,312	2,011	4,906	0	464,417

Note: Total Company General Plant assets were allocated to the plant level based on average number of customers for 1993 and 1994. Please see the allocation schedules Volume II, Book 2 of 4 for the detailed allocations to each plant. 1996 and General plant balances is based on 1996 Annual Report. 1997 Annual Report numbers are not yet available.

PLANT IN SERVICE DOLLARS - SEWER
- Additions and Balances Subsequent to
Last Established Rate Base -
Company: SSU / St. Lucie / Tropical Isles
SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	1992 Additions	1992 Retirements	1992 Adjustments	1992 1030 net	1992 Balance	1993 Additions	1993 Retirements	1993 Adjustments	1993 1030 net	1993 Balance
INTANGIBLE PLANT											
351.1	Organization	0	0	0		0	0	0	0		0
352.1	Franchises	0	0	0		464	0	0	0		464
389.1	Other Plant & Misc.	0	0	0		10	0	0	0		10
COLLECTION PLANT											
353.2	Land & Land Rights	0	0	0		4	0	0	0		4
354.2	Structures & Improvements	0	0	0		(33)	0	0	0		(33)
360.2	Collection Sewers - F	0	0	0		128,119	0	0	0		128,119
361.2	Collection Sewers - G	0	0	0		39,040	0	0	0		39,040
362.2	Special Collecting	0	0	0		0	0	0	0		0
363.2	Services to Customers	0	0	0		19,019	0	0	0		19,019
364.2	Flow Measuring Devices	0	0	0		0	0	0	0		0
365.2	Flow Measuring Installation	0	0	0		1	0	0	0		1
389.2	Other Plant & Misc. Equipment	0	0	0		8	0	0	0		8
SYSTEM PUMPING PLANT											
353.3	Land & Land Rights	0	0	0		0	0	0	0		0
354.3	Structures & Improvements	0	0	0		5	0	0	0		5
370.3	Receiving Wells	0	0	0		16	0	0	0		16
371.3	Pumping Equipment	0	0	0		1,788	696	600	0		1,884
389.3	Other Plant & Misc. Equipment	0	0	0		16	0	0	0		16
TREATMENT AND DISPOSAL PLANT											
353.4	Land & Land Rights	0	0	0		442	0	0	0		442
354.4	Structures & Improvements	0	0	0		120,860	1,839	0	0		122,699
380.4	Treatment & Disposal	0	0	0		152,219	0	0	0		152,219
381.4	Plant Sewers	0	0	0		0	0	0	0		0
382.4	Outfall Sewer Lines	0	0	0		153	0	0	0		153
389.4	Other Plant & Misc. Equipment	0	0	0		13	0	0	0		13
GENERAL PLANT											
353.5	Land & Land Rights	0	0	0		4	0	0	692 (1)		696
354.5	Structures & Improvements	0	0	0		195	0	0	5,527		5,722
390.5	Office Furniture & Equipment	0	0	0		1,447	0	0	1,893		3,340
390.51	Computer Equipment	0	0	0		0	0	0	5,945		5,945
391.5	Transportation Equipment	0	0	0		421	0	0	4,851		5,272
392.5	Stores Equipment	0	0	0		0	0	0	38		38
393.5	Tools, Shop, & Garage	0	0	0		11	0	0	1,628		1,639
394.5	Laboratory Equipment	0	0	0		5	0	0	254		259
395.5	Power Operated Equipment	0	0	0		5	0	0	1,721		1,726
396.5	Communication Equipment	0	0	0		173	0	0	499		672
397.5	Miscellaneous Equipment	0	0	0		12	0	0	266		278
398.5	Other Tangible Plant	0	0	0		0	0	0	14		14
TOTAL SEWER PLANT IN SERVICE		0	0	0	0	464,417	2,535	600	23,328	0	489,680

Note: Total Company General Plant assets were allocated to the plant level based on average number of customers for 1993 and 1994. Please see the allocation schedules Volume II, Book 2 of 4 for the detailed allocations to each plant. 1996 and General plant balances is based on 1996 Annual Report. 1997 Annual Report numbers are not yet available.

PLANT IN SERVICE DOLLARS - SEWER
- Additions and Balances Subsequent to
Last Established Rate Base -
Company: SSU / St. Lucie / Tropical Isles
SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	1994 Additions	1994 Retirements	1994 Adjustments	1994 1030 net	1994 Balance	1995 Additions	1995 Retirements	1995 Balance
INTANGIBLE PLANT									
351.1	Organization	0	0	0		0			0
352.1	Franchises	0	0	0		464			464
389.1	Other Plant & Misc.	0	0	0		10			10
COLLECTION PLANT									
353.2	Land & Land Rights	0	0	0		4			4
354.2	Structures & Improvements	0	0	0		(33)			(33)
360.2	Collection Sewers - F	0	0	0		128,119			128,119
361.2	Collection Sewers - G	0	0	0		39,040			39,040
362.2	Special Collecting	0	0	0		0			0
363.2	Services to Customers	0	0	0		19,019			19,019
364.2	Flow Measuring Devices	3,538	0	0		3,538			3,538
365.2	Flow Measuring Installation	0	0	0		1			1
389.2	Other Plant & Misc. Equipment	0	0	0		8			8
SYSTEM PUMPING PLANT									
353.3	Land & Land Rights	0	0	0		0			0
354.3	Structures & Improvements	0	0	0		5			5
370.3	Receiving Walls	0	0	0		16			16
371.3	Pumping Equipment	0	0	0		1,884	4,726	1,000	5,610
389.3	Other Plant & Misc. Equipment	0	0	0		16			16
TREATMENT AND DISPOSAL PLANT									
353.4	Land & Land Rights	0	0	0		442			442
354.4	Structures & Improvements	1,109	0	0		123,808	6,424		130,233
380.4	Treatment & Disposal	5,529	0	0		157,748	10,528		168,276
381.4	Plant Sewers	0	0	0		0			0
382.4	Outfall Sewer Lines	0	0	0		153			153
389.4	Other Plant & Misc. Equipment	0	0	0		13			13
GENERAL PLANT									
353.5	Land & Land Rights	(1)	0	0		696	(1)		696
354.5	Structures & Improvements	492	7	0		6,207			6,207
390.5	Office Furniture & Equipment	452	5	0		3,787			3,787
390.51	Computer Equipment	3,476	92	0		9,329			9,329
391.5	Transportation Equipment	1,227	822	0		5,677			5,677
392.5	Stores Equipment	24	0	0		62			62
393.5	Tools, Shop, & Garage	483	0	0		2,122			2,122
394.5	Laboratory Equipment	343	0	0		602			602
395.5	Power Operated Equipment	426	48	0		2,104			2,104
396.5	Communication Equipment	288	3	0		957			957
397.5	Miscellaneous Equipment	228	0	0		506			506
398.5	Other Tangible Plant	0	0	0		14			14
TOTAL SEWER PLANT IN SERVICE		17,615	977	0	0	506,318	21,678	1,000	526,996

Note: Total Company General Plant assets were allocated to the plant level based on average number of customers for 1993 and 1994. Please see the allocation schedules Volume II, Book 2 of 4 for the detailed allocations to each plant. 1996 and General plant balances is based on 1996 Annual Report. 1997 Annual Report numbers are not yet available.

PLANT IN SERVICE DOLLARS - SEWER
- Additions and Balances Subsequent to
Last Established Rate Base -
Company: SSU / St. Lucia / Tropical Isles
SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	1996 Additions	1996 Retirements	Adjustments G.P	1996 Balance	1997 Additions	1997 Retirements	1997 Balance
INTANGIBLE PLANT								
351.1	Organization				0			0
352.1	Franchises				464			464
389.1	Other Plant & Misc.				10			10
COLLECTION PLANT								
353.2	Land & Land Rights				4			4
354.2	Structures & Improvements				(33)			(33)
360.2	Collection Sewers - F				128,119			128,119
361.2	Collection Sewers - G				39,040			39,040
362.2	Special Collecting				0			0
363.2	Services to Customers				19,019			19,019
364.2	Flow Measuring Devices				3,538	1,663	500	4,701
365.2	Flow Measuring Installation				1			1
389.2	Other Plant & Misc. Equipment				8			8
SYSTEM PUMPING PLANT								
353.3	Land & Land Rights				0			0
354.3	Structures & Improvements				5			5
370.3	Receiving Wells				16			16
371.3	Pumping Equipment	668			6,278			6,278
389.3	Other Plant & Misc. Equipment				16			16
TREATMENT AND DISPOSAL PLANT								
353.4	Land & Land Rights				442			442
354.4	Structures & Improvements	1,557			131,789			131,789
380.4	Treatment & Disposal	11,139			179,415		1,000	178,415
381.4	Plant Sewers				0			0
382.4	Outfall Sewer Lines				153			153
389.4	Other Plant & Misc. Equipment				13			13
GENERAL PLANT								
353.5	Land & Land Rights			127	823			823
354.5	Structures & Improvements			794	6,911			6,911
390.5	Office Furniture & Equipment			8,211	11,998			11,998
390.51	Computer Equipment			(9,329)	0			0
391.5	Transportation Equipment			(559)	5,118			5,118
392.5	Stores Equipment			0	62			62
393.5	Tools, Shop, & Garage			(237)	1,885			1,885
394.5	Laboratory Equipment			1,632	2,234			2,234
395.5	Power Operated Equipment			63	2,167			2,167
396.5	Communication Equipment			388	1,345			1,345
397.5	Miscellaneous Equipment			108	614			614
398.5	Other Tangible Plant			245	259			259
TOTAL SEWER PLANT IN SERVICE		13,364	0	1,353	541,713	1,663	1,500	541,876

Note: Total Company General Plant assets were allocated to the plant level based on average number of customers for 1993 and 1994. Please see the allocation schedules Volume II, Book 2 of 4 for the detailed allocations to each plant. 1996 and General plant balances is based on 1996 Annual Report. 1997 Annual Report numbers are not yet available.

ATTACHMENT B

Consisting of 3 Pages

ACCUMULATED DEPRECIATION - SEWER
 - Additions and Balances Subsequent to Last Established
 Rate Base -
 Company: SSU / St. Lucie / Tropical Isles
 SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	Last Established Rate Base 9/30/88	FPSC Adjustments	Rate Base 9/30/88	Utility Adjustments	Depreciation Rate change Adjustments	Adjusted Rate Base 9/30/88	3 months 1988 Additions	Retirements	1988 Balance
INTANGIBLE PLANT										
351.1	Organization	-	-	-	-	-	-	8	-	8
352.1	Franchises	-	-	-	-	-	-	(0)	-	(0)
389.1	Other Plant & Misc.	-	-	-	-	-	-	0	-	0
COLLECTION PLANT										
353.2	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.2	Structures & Improvements	-	-	-	-	-	-	(0)	-	(0)
360.2	Collection Sewers - F	4,957	-	4,957	-	-	4,957	800	-	5,757
361.2	Collection Sewers - G	1,505	-	1,505	-	-	1,505	244	-	1,749
362.2	Special Collecting	-	-	-	-	-	-	-	-	-
363.2	Services to Customers	726	-	726	-	-	726	119	-	845
364.2	Flow Measuring Devices	-	-	-	-	-	-	-	-	-
365.2	Flow Measuring Installation	-	-	-	-	-	-	0	-	0
389.2	Other Plant & Misc. Equipment	-	-	-	-	-	-	0	-	0
SYSTEM PUMPING PLANT										
353.3	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.3	Structures & Improvements	-	-	-	-	-	-	0	-	0
370.3	Receiving Wells	-	-	-	-	-	-	0	-	0
371.3	Pumping Equipment	-	-	-	-	-	-	0	-	0
389.3	Other Plant & Misc. Equipment	-	-	-	-	-	-	0	-	0
TREATMENT AND DISPOSAL PLANT										
353.4	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.4	Structures & Improvements	4,674	-	4,674	-	-	4,674	755	-	5,429
380.4	Treatment & Disposal	5,842	-	5,842	-	-	5,842	942	-	6,784
381.4	Plant Sewers	-	-	-	-	-	-	-	-	-
382.4	Outfall Sewer Lines	-	-	-	-	-	-	0	-	0
389.4	Other Plant & Misc. Equipment	-	-	-	-	-	-	0	-	0
GENERAL PLANT										
353.5	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.5	Structures & Improvements	-	-	-	-	-	-	0	-	0
390.5	Office Furniture & Equipment	-	-	-	-	-	-	0	-	0
390.51	Computer Equipment	-	-	-	-	-	-	-	-	-
391.5	Transportation Equipment	-	-	-	-	-	-	0	-	0
392.5	Stores Equipment	-	-	-	-	-	-	-	-	-
393.5	Tools, Shop, & Garage	-	-	-	-	-	-	0	-	0
394.5	Laboratory Equipment	-	-	-	-	-	-	0	-	0
395.5	Power Operated Equipment	-	-	-	-	-	-	0	-	0
396.5	Communication Equipment	-	-	-	-	-	-	0	-	0
397.5	Miscellaneous Equipment	-	-	-	-	-	-	(0)	-	(0)
398.5	Other Tangible Plant	-	-	-	-	-	-	-	-	-
TOTAL SEWER PLANT IN SERVICE		17,704	-	17,704	-	-	17,704	2,869	-	20,573

Note: Total Company General Plant Accumulate Depreciation was allocated to the plant level based on average number of customers for 1993. Please see the allocation schedules Docket 950495-WS Volume II, Book 2 of 4 for the detailed allocations to each plant.

ACCUMULATED DEPRECIATION - SEWER
- Additions and Balances Subsequent to Last Established
Rate Base -
Company: SSU / St. Lucie / Tropical Isles
SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	Last Established Rate Base 9/30/88	FPSC Adjustments	Rate Base 9/30/88	Utility Adjustments	Depreciation Rate change Adjustments	Adjusted Rate Base 9/30/88	3 months 1988 Additions	Retirements	1988 Balance
INTANGIBLE PLANT										
351.1	Organization	-	-	-	-	-	-	8	-	8
352.1	Franchises	-	-	-	-	-	-	(0)	-	(0)
389.1	Other Plant & Misc.	-	-	-	-	-	-	0	-	0
COLLECTION PLANT										
353.2	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.2	Structures & Improvements	-	-	-	-	-	-	(0)	-	(0)
360.2	Collection Sewers - F	4,957	-	4,957	-	-	4,957	800	-	5,757
361.2	Collection Sewers - G	1,505	-	1,505	-	-	1,505	244	-	1,749
362.2	Special Collecting	-	-	-	-	-	-	-	-	-
363.2	Services to Customers	726	-	726	-	-	726	119	-	845
364.2	Flow Measuring Devices	-	-	-	-	-	-	-	-	-
365.2	Flow Measuring Installation	-	-	-	-	-	-	0	-	0
389.2	Other Plant & Misc. Equipment	-	-	-	-	-	-	0	-	0
SYSTEM PUMPING PLANT										
353.3	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.3	Structures & Improvements	-	-	-	-	-	-	0	-	0
370.3	Receiving Wells	-	-	-	-	-	-	0	-	0
371.3	Pumping Equipment	-	-	-	-	-	-	0	-	0
389.3	Other Plant & Misc. Equipment	-	-	-	-	-	-	0	-	0
TREATMENT AND DISPOSAL PLANT										
353.4	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.4	Structures & Improvements	4,674	-	4,674	-	-	4,674	755	-	5,429
380.4	Treatment & Disposal	5,842	-	5,842	-	-	5,842	942	-	6,784
381.4	Plant Sewers	-	-	-	-	-	-	-	-	-
382.4	Outfall Sewer Lines	-	-	-	-	-	-	0	-	0
389.4	Other Plant & Misc. Equipment	-	-	-	-	-	-	0	-	0
GENERAL PLANT										
353.5	Land & Land Rights	-	-	-	-	-	-	-	-	-
354.5	Structures & Improvements	-	-	-	-	-	-	0	-	0
390.5	Office Furniture & Equipment	-	-	-	-	-	-	0	-	0
390.51	Computer Equipment	-	-	-	-	-	-	-	-	-
391.5	Transportation Equipment	-	-	-	-	-	-	0	-	0
392.5	Stores Equipment	-	-	-	-	-	-	-	-	-
393.5	Tools, Shop, & Garage	-	-	-	-	-	-	0	-	0
394.5	Laboratory Equipment	-	-	-	-	-	-	0	-	0
395.5	Power Operated Equipment	-	-	-	-	-	-	0	-	0
396.5	Communication Equipment	-	-	-	-	-	-	0	-	0
397.5	Miscellaneous Equipment	-	-	-	-	-	-	(0)	-	(0)
398.5	Other Tangible Plant	-	-	-	-	-	-	-	-	-
TOTAL SEWER PLANT IN SERVICE		17,704	-	17,704	-	-	17,704	2,869	-	20,573

Note: Total Company General Plant Accumulate Depreciation was allocated to the plant level based on average number of customers for 1993. Please see the allocation schedules Docket 950495-WS Volume II, Book 2 of 4 for the detailed allocations to each plant.

ACCUMULATED DEPRECIATION - SEWER
 - Additions and Balances Subsequent to Last Established
 Rate Base -
 Company: SSU / St. Lucie / Tropical Isles
 SEWER PLANT IN SERVICE ACCOUNTS

No.	DESCRIPTION	1992 Additions	1992 Retirements	1992 Balance	1993 Additions	1993 Retirements	Adjustments G.P.	1993 Balance	1994 Additions	1994 Retirements	1994 Balance
INTANGIBLE PLANT											
351.1	Organization	-	-	(0)	-	-	-	-	-	-	-
352.1	Franchises	12	-	17	12	-	-	20	12	-	41
389.1	Other Plant & Misc.	0	-	1	0	-	-	1	0	-	1
COLLECTION PLANT											
353.2	Land & Land Rights	-	-	-	-	-	-	-	-	-	-
354.2	Structures & Improvements	(1)	-	(3)	(1)	-	-	(4)	(1)	-	(5)
360.2	Collection Sewers - F	3,203	-	18,569	3,203	-	-	21,772	3,203	-	24,975
361.2	Collection Sewers - G	978	-	5,653	978	-	-	6,629	978	-	7,605
362.2	Special Collecting	-	-	-	-	-	-	-	-	-	-
363.2	Services to Customers	475	-	2,747	475	-	-	3,222	475	-	3,697
364.2	Flow Measuring Devices	-	-	-	-	-	-	-	44	-	44
365.2	Flow Measuring Installation	0	-	0	0	-	-	-	0	-	0
389.2	Other Plant & Misc. Equipment	0	-	1	0	-	-	1	0	-	1
SYSTEM PUMPING PLANT											
353.3	Land & Land Rights	-	-	-	-	-	-	-	-	-	-
354.3	Structures & Improvements	0	-	1	0	-	-	1	0	-	1
370.3	Receiving Wells	0	-	2	0	-	-	2	0	-	2
371.3	Pumping Equipment	45	-	112	48	600	-	(442)	47	-	(395)
389.3	Other Plant & Misc. Equipment	0	-	2	0	-	-	2	0	-	2
TREATMENT AND DISPOSAL PLANT											
353.4	Land & Land Rights	-	-	-	-	-	-	-	-	-	-
354.4	Structures & Improvements	3,022	-	17,514	3,044	-	-	20,550	3,061	-	23,640
380.4	Treatment & Disposal	3,805	-	21,979	3,805	-	-	25,784	3,875	-	29,659
381.4	Plant Sewers	-	-	-	-	-	-	-	-	-	-
382.4	Outfall Sewer Lines	4	-	16	4	-	-	20	4	-	24
389.4	Other Plant & Misc. Equipment	0	-	1	0	-	-	2	0	-	2
GENERAL PLANT											
353.5	Land & Land Rights	-	-	-	-	-	-	-	-	-	-
354.5	Structures & Improvements	5	-	17	5	-	1,244	1,266	142	-	1,408
390.5	Office Furniture & Equipment	36	-	(180)	36	-	1,614	1,470	233	-	1,703
390.51	Computer Equipment	-	-	-	-	-	1,927	1,927	1,181	-	3,108
391.5	Transportation Equipment	11	-	23	11	-	3,623	3,657	91	-	3,748
392.5	Stores Equipment	-	-	-	-	-	15	15	3	-	18
393.5	Tools, Shop, & Garage	0	-	(15)	0	-	950	938	118	-	1,054
394.5	Laboratory Equipment	0	-	1	0	-	122	123	29	-	152
395.5	Power Operated Equipment	0	-	1	0	-	1,925	1,926	112	-	2,038
396.5	Communication Equipment	4	-	(11)	4	-	401	395	78	-	473
397.5	Miscellaneous Equipment	0	-	1	0	-	46	47	26	-	73
398.5	Other Tangible Plant	-	-	-	-	-	400	400	1	-	401
TOTAL SEWER PLANT IN SERVICE		11,599	-	66,447	11,823	600	12,269	89,740	13,732	-	103,472

Note: Total Company General Plant Accumulate Depreciation was allocated to the plant level based on average number of customers for 1993. Please see the allocation schedules Docket 950495-WS Volume II, Book 2 of 4 for the detailed allocations to each plant.

ATTACHMENT C

Consisting of 2 Pages

SOUTHERN STATES UTILITIES, INC.

FPSC Plant In-Service Additions by Project

From the Last Rate Case thru 1996

In-Service Additions - Detail by Project				
Year	Project Number	Description	Project Cost	Priority
<i>1992-94 SUNSHINE PARKWAY - WASTEWATER</i>				
1993	88CC003	EFFLUENT DISPOSAL SYSTEM & LAND	690,779	2-Regulatory Mandate
1993	92CC409	STEEL STAIRWAY	1,538	1-Safety
1993	91CC320	FLOW DEVICE	689	2-Regulatory Mandate
1994	93CC694	ISCO AUTO SAMPLER - MODEL 3710R	4,364	2-Regulatory Mandate
1994	94CC491	FLOW METER	3,431	2-Regulatory Mandate
1992-94 Subtotal			700,800	
<i>1995 SUNSHINE PARKWAY - WASTEWATER</i>				
1995	95CC204 *	HAND RAILS/WALKWAY	17	1-Safety
1995	95CW725 *	LINE EXTENSIONS - SEWER	5	3-Growth
1995	95CS212 *	SEWER SERVICES	3	5-General Improvement
1995 Subtotal			25	
Wastewater			700,825	
Total Sunshine Parkway			994,815	
 <i>1985-91 TROPICAL ISLE - WASTEWATER</i>				
1985-91	PRE92CI	PRE 1992 CAPITAL INVESTMENT	6,950	3-Growth
1985-91 Subtotal			6,950	
<i>1992-94 TROPICAL ISLE - WASTEWATER</i>				
1993	92CC587	INSTALL SECURITY FENCE	1,839	2-Regulatory Mandate
1993	92CC615	TWO 1/2HP SURGE PUMPS	696	5-General Improvement
1994	91CC400	SEWER PLANT BLOWERS	5,258	4-Quality of Service
1994	93CC382	FLOW METER	3,538	2-Regulatory Mandate
1994	94CC422	CONSTRUCT BLOWER ROOM	1,109	4-Quality of Service
1994	92CC026	CHLORINE SCALES	272	2-Regulatory Mandate
1992-94 Subtotal			12,712	
<i>1995 TROPICAL ISLE - WASTEWATER</i>				
1995	95CC204 *	HAND RAILS/WALKWAY	410	1-Safety
1995	95CW725 *	LINE EXTENSIONS - SEWER	65	3-Growth
1995	95CS212 *	SEWER SERVICES	65	5-General Improvement
1995 Subtotal			605	
Wastewater			20,267	
Total Tropical Isle			20,267	

Note: * The budget process has regional capital projects for water only and sewer only additions. This detail by plant allocates those budgeted dollars to all water or sewer plants, based on total company number of water or sewer customers.

COUNTY: St. Lucie
 PLANT: Tropical Isle
 SERVICE: Wastewater

Acquired - 1988
 Last Rate Order No. - 950495-WS
 Last Rate Order Date - 8/2/95
 Last Test Year - 12/31/96 (projected)
 Last Test Year - 12/31/94 (historical)

G/L BALANCE 12/31/97 - \$ 508,461.70

PROJECT #	MAJOR PLANT ADDITIONS	YEAR	COST	PRIORITY
94CC082	Potable Water Installation	1995	\$ 671.84	Growth
95CC204	Hand Rails/Walkways	1995	\$ 5,752.50	Safety
95CC456	Rebuild Filter	1995	\$ 8,394.68	Regulatory Mandate
95CC480	Replace Lift Station Pumps	1995	\$ 2,363.20	Regulatory Mandate
95CC546	Blower Rebuild and Install	1995	\$ 2,132.94	Regulatory Mandate
95CS575	Refurbish Lift Station Pump	1995	\$ 2,362.99	Regulatory Mandate
95ZZ777	Lift Station Pump	1995	\$ (1,000.00)	Retirement
	Total 1995 Additions/Retirements		\$ 20,678.15	
94CC082	Potable Water Installation	1996	\$ 1,556.67	Growth
96CS205	Replace Surge Pumps	1996	\$ 667.83	Regulatory Mandate
96CS258	Rebuild Filters	1996	\$ 7,616.98	Regulatory Mandate
96CS291	Blower Installation	1996	\$ 3,522.15	Regulatory Mandate
	Total 1996 Additions/Retirements		\$ 13,363.63	
97CS312	Flow Meter	1997	\$ 1,662.82	Regulatory Mandate
97ZZ777	Flow Meter	1997	\$ (500.00)	Retirement
97ZZ777	Blower	1997	\$ (1,000.00)	Retirement
	Total 1997 Additions/Retirements		\$ 162.82	
	1988 - 1997 Additions/Retirements		\$ 508,461.70	

ATTACHMENT D

Consisting of 24 Pages



Department of Environmental Protection

Lawton Chiles
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

Virginia B. Wetherell
Secretary

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

Florida Water Services
c/o Mr. Rafael A. Terrero, P.E.
P.O. Box 609520
Orlando, Florida 32860-9520

PERMIT NUMBER: FLA013990-001
ISSUANCE DATE: SEP 29 1997
EXPIRATION DATE: SEP 29 2002
FACILITY I.D. NO: FLA013990
PATS NUMBER: DO 56-258498

FACILITY:

Tropical Isles Wastewater Treatment Facility
500 Thames Bluff Ridge
Ft. Pierce, FL 34957
St. Lucie County
Latitude: 27° 20' 30" N Longitude: 80° 19' 00" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code. 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 0.050 MGD, 3-month average daily flow (3-Mo.A.D.F.), permitted capacity extended aeration domestic wastewater treatment plant consisting of flow equalization (two (2) 7,100 gallon surge tanks), aeration (five (5) 10,000 gallon aeration tanks), clarification (one (1) 10,300 gallon clarifier), aerobic digestion (one (1) 10,200 gallon digester), filtration (two (2) 20 sq. ft. sand filters) with a 6,700 gallon mud well and 5,873 gallon backwash holding/chlorine contact chamber. Disinfection is by gas chlorination. The residuals are lime stabilized before hauling from the plant.

REUSE:

Land Application: An existing 0.050 MGD, 3-month average daily flow (3-Mo.A.D.F.), permitted capacity land application system (R001) consisting of three (3) adsorption beds (cells)--total area of 38,016 sq. ft.. Land application system R001 is located approximately at latitude 27° 20' 30" N, longitude 80° 19' 00" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Pages 1 through 16 of this permit.

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

PERMITTEE: Florida Water Services
 c/o Mr. Rafael A. Terrero, P.E.
 P.O. Box 609520
 Orlando, Florida 32860-9520

PERMIT NUMBER: FLA013990-001
 ISSUANCE DATE: SEP 29 1997
 EXPIRATION DATE: SEP 29 2002
 FACILITY I.D. NO.: FLA013990

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to land apply reclaimed water from Reuse System R001. Such reuse shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Reclaimed Water Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
Flow	mgd	Maximum					Continuous	Daily, 6/wk	19549	See Cond.I.A.3,4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Maximum	20	30	45	60	Monthly	Grab	19549	
Total Suspended Solids	mg/L	Maximum				10	Monthly	Grab	19549	
Fecal Coliform Bacteria	See Permit Condition I.A.5.						Monthly	Grab	19549	See Cond.I.A.5
pH	std. units	Range				6.0 to 8.5	Daily, 6/wk.	Grab	19549	
Total Residual Chlorine (For Disinfection)	mg/L	Minimum				0.5	Daily, 6/wk.	Grab	19549	See Cond.I.A.6
Nitrate (as N)	mg/L	Maximum				12	Quarterly	Grab	19549	

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PERMITTEE: Florida Water Services
c/o Mr. Rafael A. Terrero, P.E.
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Orlando, Florida 32860-9520

PERMIT NUMBER: FLA013990-001
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EXPIRATION DATE: SEP 29 2002
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2. Reclaimed Water 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
19549	Chlorine Contact Chamber (EFA-01).

3. The three-month average daily flow to Land Application System R001 shall not exceed .050 mgd.
4. A flowmeter/totalizer shall be utilized to measure flow and calibrate at least annually. [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 reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, 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]
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]

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 EXPIRATION DATE: SEP 29 2002
 FACILITY I.D. NO.: FLA013990

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			
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Report	--	--	--	Report (Instantaneous Max.)	Daily, 6/wk	Flowmeter/totalizer	28619	See Cond. I.B.3 & I.B.4
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/L	Report	--	--	--	--	Monthly	Grab	26055	See Cond. I.B.6
Total Suspended Solids	mg/L	Report	--	--	--	--	Monthly	Grab.	26055	See Cond. I.B.6

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PERMITTEE: Florida Water Services
c/o Mr. Rafael A. Terrero, P.E.
P.O. Box 609520
Orlando, Florida 32860-9520

PERMIT NUMBER: FLA013990-001
ISSUANCE DATE: SEP 29 1997
EXPIRATION DATE: SEP 29 2002
FACILITY I.D. NO.: FLA013990

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
26055	Flow-splitter box (INF-01).
28619	Flow metering for influent--instantaneous (peak) maximum (INF-02).

3. A flowmeter/totalizer shall be utilized to measure flow and calibrated at least annually. [62-601.200(17) and .500(6), 5-31-93]
4. A device/mechanism for evaluating diurnal flow peaks/patterns [such as elapse time meters on the influent lift station pump(s), or other such alternative(s)], will be required to be utilized at the wastewater treatment facility in accordance with the Implementation Schedule in Section VI., No. 1, of the permit. Monitoring of the (daily) instantaneous maximum, ie.-- peak hour, flow(s) to the treatment facility will be required to be reported on the DMR Forms upon installation of the equipment. [62-620.320(1), 11-29-94]
5. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection, reclaimed water, or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(18), 11-29-94]
6. 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]
7. 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 D.E.P. Port St. Lucie Branch Office at the address specified in Permit Condition I.B.8. by the twenty-eighth (28th) of the month following the month of operation. [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 South East District Office at the address specified below:

Florida Department of Environmental Protection
Port St. Lucie Branch Office
1801 S.E. Hillmoor Drive, Suite C-204
Port St. Lucie, Florida 34952

Phone Number - (407) 871-7662

FAX Number - (407) 871-7666 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.

PERMITTEE: Florida Water Services
 c/o Mr. Rafael A. Terrero, P.E.
 P.O. Box 609520
 Orlando, Florida 32860-9520

PERMIT NUMBER: FLA013990-001
 ISSUANCE DATE: SEP 29 1997
 EXPIRATION DATE: SEP 29 2002
 FACILITY I.D. NO.: FLA013990

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.
4. A log shall be maintained at the WWTF that indicates the waste activated sludge has been stored in the sludge holding tank under aerobic conditions and lime stabilized to meet Class B residuals criteria prior to removing residuals from the wastewater treatment facility site for land application. This log shall indicate Class B stabilization conditions by addition of sufficient lime to produce a pH of 12 for the first two (2) hours and provide reasonable assurance of minimization of disease vectors and prevention of (nuisance) odor(s) by documenting a pH of 11.5 or higher for the remaining twenty two (22) hours based on a total of twenty-four (24) hours of contact with the residuals. [62-640.600(2), 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. The permittee shall sample and analyze the residuals at least once every 12 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.

PERMITTEE: Florida Water Services
 c/o Mr. Rafael A. Terrero, P.E.
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 Orlando, Florida 32860-9520

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 EXPIRATION DATE: SEP 29 2002
 FACILITY I.D. NO.: FLA013990

7. 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

8. Class B residuals shall not be used on unrestricted access areas. [62-640.600(6)(b), 3-1-91]
9. 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]
10. 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]
11. 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]
12. 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]
13. 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]
14. 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 landspreading on the following sites:

Site Name	Application Area (Acres)	Site Location	
		City	County
Allapattah Properties	2	Indiantown	Martin
Triple E Ranch	2	Martin Hwy.	Martin
Flying 'P'	2	Stuart	Martin

[62-620.330, 11-29-94]

15. 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]
16. Residuals shall be applied with techniques and equipment to assure uniform application over the site. [62-640.700(3)(n), 3-1-91]
17. 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]
18. 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:

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- 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 Agricultural Use Plan(s) and annual summaries, including copies of applicable analytical laboratory reports for the wastewater residuals analysis for that period, shall be submitted to the South East District, Port St. Lucie Branch Office, by 01/31 of each year. [62-640.700(3)(e) and (p), 3-1-91]

III. GROUND WATER MONITORING REQUIREMENTS

Section Three (III.) is not applicable to this facility.

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

Part IV Absorption Field System(s)

1. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the site or to the site property line, whichever is less, and vertically to the base of the surficial aquifer. [62-522.400 and 62-522.410, 4/14/94]
2. The ground water quality criteria specified in Chapter 62-520, F.A.C., for total coliforms shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the application site or to the facility's property line, whichever is less, and vertically to the base of the underlying aquifer. No zone of discharge shall be allowed for other ground water criteria. [62-610.625, 1/9/96] [62-520.200(23), 62-522.400, and 62-522.410, 4/14/94]
3. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. [62-610.518, 1/9/96]
4. The permittee may allow public access to the absorption field sites. [62-610.518, 4/2/90]
5. The absorption field shall be operated to preclude saturated conditions from developing at the ground surface. [62-610.550(3), 1/9/96]

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6. The annual average hydraulic loading rate shall be limited to a maximum of 3 inches per day (as applied to the entire bottom area of the absorption field trenches or spreading areas). [62-610.523(3), 1/9/96]
7. Absorption fields normally shall be loaded for 7 days and shall be rested for 14 days. Absorption fields shall be allowed to dry during the resting portion of the cycle. [62-610.523(4), 1/9/96]
8. Overflows from absorption fields shall be reported as an abnormal event to the Port St. Lucie Office within 24 hours of an occurrence as an abnormal event. The provisions of Rule 62-610.800(9), F.A.C., shall be met. [62-610.800(9), 1/9/96]
9. Regular maintenance of access areas is required. [62-610.514, 1/9/96]

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 1/2 hour/day for 5 days/week and one weekend visit. The lead operator must be a Class C operator, or higher.
[62-699, 5-20-94] [62-620.630(3), 11-29-94]
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 with the application for renewal of this permit. 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;

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- 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. IMPLEMENTATION SCHEDULES

Implementation Step		Completion Date
1	Installation of flow measurement equipment or other means of evaluating diurnal peak flow(s) to the WWTF.	180 days after permit issuance.
2	Submittal of (updated) Operation & Maintenance (O&M) Manual.	120 days after permit issuance.

1. The permittee shall develop a means of evaluating diurnal peak flows and implement installation/utilization of necessary equipment/methods in accordance with No. 1. in the above schedule:
2. The permittee shall develop an (updated) Operation and Maintenance (O & M) Manual in accordance with No. 2. in the above schedule:

[62-620, 11-29-94]

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program. [62-625.500, 11-29-94]

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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. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-610.850(1)(a) and(2)(a), 1-9-96] [62-640.700(3)(c), 3-1-91]*
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 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 operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting 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
 - 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.*[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]*

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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]*
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]*

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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 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

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- 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 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

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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 reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

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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.

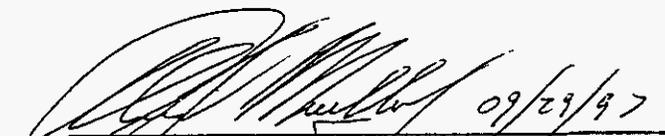
[62-620.610(22), 11-29-94]

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 West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION


Alfred Mueller, P.E., F.G. 09/29/97
Date
Water Facilities Administrator

**STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FLA013990-001

FACILITY NAME: Tropical Isles Wastewater Treatment Facility

FACILITY LOCATION: 500 Thames Bluff Ridge
Ft. Pierce, St. Lucie County

NAME OF PERMITTEE: Florida Water Services
c/o Rafael A. Terrero, P.E.

PERMIT WRITER: Robert Hennes

SYNOPSIS OF APPLICATION: In accordance with: D.E.P. application form(s) 62-600.910(2), 62-620.910(1) and 62-620.910(2); received on September 30, 1994 and August 3, 1995, respectively, and a \$1,000.00 application fee. Additional information received on August 3, 1995, October 9, 1995; and September 5, 1997.

Type of Facility
Domestic Wastewater Treatment Plant.
Privately-owned treatment works.
Standard Industrial Classification Code: 4952

Facility Capacity
Existing Capacity: .050 mgd 3-Month Average Daily Flow
Proposed Increase in Design Capacity: .000 mgd
Proposed Total Design Capacity: .050 mgd 3-Month Average Daily Flow

**BASIS FOR EFFLUENT AND RECLAIMED WATER LIMITS AND MONITORING REQUIREMENTS
(INCLUDING EFFLUENT MONITORING REQUIREMENTS)**

The following table provides the basis for Part I. A. provisions.

Land Application System R001:

Parameter	Basis	Rationale
Flow	Annual ADF Three Month ADF Monthly ADF	62-600.400(3)(b) FAC 62-600.400(3)(b) FAC 62-600.400(3)(b) FAC
Carbonaceous Biochemical Oxygen Demand (5 day)	Annual Average Monthly Average Weekly Average Single Sample Max.	62-600.740(1)(b)1.a. FAC 62-600.740(1)(b)1.b. FAC 62-600.740(1)(b)1.c. FAC 62-600.740(1)(b)1.d. FAC
Total Suspended Solids	Single Sample Max.	62-610.510 FAC

(Table continued from previous page.)

Fecal Coliform Bacteria (Basic disinfection)	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	62-600.445 FAC
Total Residual Chlorine (For Disinfection)	Minimum	62-600.440(4)(b) FAC
Nitrate (as N)	Single Sample Max.	62-610.510 FAC
Monitoring Frequency and Sample Type	All Parameters	62-601 FAC & 62-699 FAC and/or best practical judgment of permit writer
Sampling Location	All Parameters	62-610.513 FAC
Footnotes:		
1. Secondary treatment and basic disinfection required pursuant to 62-610.510 FAC.		

The following table provides the basis for Part I. B. provisions.

Other Limitations and Monitoring Requirements:

Parameter	Basis	Rationale
Flow (*See Note)	Instantaneous max (peak hour) flow.	BPJ
CBOD5	Monitor & Report	62-601.300(1)FAC
TSS	Monitor & Report	62-601.300(1)FAC

*Note: The Implementation Schedule, Section VI., Item 1. in the permit has specified the installation of flow measurement equipment (ie. -- elapse time meters on the influent lift station, or other alternatives). The purpose of this requirement is for monitoring and evaluation of the diurnal peak, or instantaneous maximum, flows which the facility must be capable of accommodating by flow equalization.

RESIDUALS MANAGEMENT

Class of residuals stabilization to be provided: B.

Proposed method of residuals use or disposal: land application.

The current Agricultural Use Plan(s) for this facility identifies residuals land application on the following sites:

Site Name	Application Area (Acres)	Site Location	
		City	County
Allapattah Properties	2	Indiantown	Martin
Triple E Ranch	2	Martin Hwy.	Martin
Flying 'P'	2	Stuart	Martin

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

Residuals are lime stabilized for 2 hours to increase pH to 12 or better, and maintained for 22 hrs. at pH 11.5 or better before hauling.

PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Agency Action July 15, 1997

Proposed Effective Date of Permit July 15, 1997

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.

CBOD₅: Enter the average CBOD₅ 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 DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Southeast District, P.O. Box 15425, West Palm Beach, 33416

PERMITTEE NAME: Florida Water Services
 MAILING ADDRESS: c/o Rafael Terrero, P.E.
 P.O. Box 609520
 Orlando, Florida 32860-9520

PERMIT NUMBER: FLA013990-001
 MONITORING PERIOD From: _____
 LIMIT: Final
 CLASS SIZE:

To: _____
 REPORT: Monthly
 GROUP: Domestic

FACILITY: Tropical Isles Wastewater Treatment Facility (WWTF)
 LOCATION: 500 Thames Bluff Road
 Fort Pierce, Florida

FACILITY ID: FLA013990
 GMS ID NO.: 5156P00320
 DISCHARGE POINT NUMBER: R001
 PLANT SIZE/TREATMENT TYPE: III.C.

WAFR SITE NO.: 26116
 GMS TEST SITE NO.:

COUNTY: St. Lucie

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.		Min.	Avg.	Max.				
Flow	Sample Measurement										
STORET No. 50050 Y Mon. Site No. EFA-01	Permit Measurement	Report (An/ADF)		mgd						6 Days/Week	Flow Meters
Flow	Sample Measurement										
STORET No. 50059 X Mon. Site No. EFA-01	Permit Measurement	Report (Mo/ADF)		mgd						6 Days/Week	Flow Meters
CBOD5	Sample Measurement										
STORET No. 80082 Y Mon. Site No. EFA-01	Permit Measurement					20.0 (An/Avg.)		mg/L		Monthly	Grab
CBOD5	Sample Measurement										
STORET No. 80082 X Mon. Site No. EFA-01	Permit Measurement						60.0 (Max.)	mg/L		Monthly	Grab
TSS	Sample Measurement										
STORET No. 00530 X Mon. Site No. EFA-01	Permit Measurement						10.0 (Max.)	mg/L		Monthly	Grab
pH	Sample Measurement										
STORET No. 00406 X Mon. Site No. EFA-01	Permit Measurement				6.0 (Min.)		8.5 (Max.)	S.U.		Monthly	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	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED	TELEPHONE NO	DATE (YY/MM/DD)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY NAME: Tropical Isles Wastewater Treatment Facility (WWTF)

PERMIT NUMBER: FLA013990-001

DISCHARGE POINT NUMBER: R001

WAFR SITE No.: 26116

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Avg.	Max.		Min.	Avg.	Max.				
Fecal Coliform Bacteria	Sample Measurement										
STORET No: 31616 Mon Site No: EFA-01	Permit Measurement					200 (Ann Avg)		#/100mL		Monthly	Grab
Fecal Coliform Bacteria	Sample Measurement										
STORET No: 31616 Mon Site No: EFA-01	Permit Measurement					800 (Sng. Samp. Max.)		#/100mL		Monthly	Grab
TRC for disinfection	Sample Measurement										
STORET No: 50060 Mon Site No: PPI-01	Permit Measurement				0.5 (Min.)			mg/L		6 Days/Week	Grab
NO3-Nitrogen, Total as N	Sample Measurement										
STORET No: 00620 Mon Site No: PPI-01	Permit Measurement					12.0 (Max.)		mg/L as N		Monthly	Grab
Flow	Sample Measurement										
STORET No: 50047 Mon Site No: INF-02	Permit Measurement		Report (Peak Hour Flow)	mgd						6 Days/Week	Flow Meters
CBOD5	Sample Measurement										
STORET No: 80082 Mon Site No: INF-01	Permit Measurement					Report				Monthly	Grab
TSS	Sample Measurement										
STORET No: 00530 Mon Site No: INF-01	Permit Measurement					Report				Monthly	Grab
	Sample Measurement										
	Permit Measurement										
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