
Appendix E

Wastewater Facilities Summary

Wekiva River and Basin Nitrate Sourcing Study

APPENDIX E. WASTEWATER FACILITIES SUMMARY

Table 1. Summary of groundwater, surface water, and reuse Total Nitrogen discharge.

FACILITY ID	NAME	Current Condition			Implementation of 62-600.550 (WSA only)		
		GW DISCHARGE (MT/YR)	SW DISCHARGE (MT/YR)	REUSE (MT/YR)	GW DISCHARGE (MT/YR)	SW DISCHARGE (MT/YR)	REUSE (MT/YR)
FLA010795	CONSERV II DISTRIBUTION CENTER	138.4	0.0	92.6	138.4	0.0	92.6
FLA010798	OCUD/NORTHWEST WATER RECLAMATION FACILITY	29.6	1.4	0.0	9.6	1.2	0.0
		18.0	0.0	0.0	5.1	0.0	0.0
FLA010818	APOPKA WRF - PROJECT ARROW	1.5	0.0	5.0	0.7	0.0	2.2
FL0036251	WEKIVA HUNT CLUB	6.2	8.8	19.0	1.4	2.0	4.3
FLA010815	OCOEE, CITY OF	1.4	0.0	7.1	1.0	0.0	5.2
FLA010512	CLERMONT/WEST WWTF #1	4.3	0.0	0.0	4.3	0.0	0.0
FLA011105	SHADOW HILLS WWTF	0.9	0.0	0.0	0.9	0.0	0.0
FLA010865	ZELLWOOD STATION MHP	1.5	0.0	0.0	0.2	0.0	0.0
FLA010855	COCA-COLA/APOPKA FACILITY	0.0	0.0	0.0	0.0	0.0	0.0
FLA295965	EUSTIS - EASTERN	0.8	0.0	0.0	0.0	0.0	0.0
FLA010660	LAKE COUNTY CORRECTIONAL	0.5	0.0	0.0	0.5	0.0	0.0
FLA185761	QUAIL VALLEY	0.2	0.0	0.0	0.2	0.0	0.0
FLA010656	SUNSHINE PARKWAY WWTF	0.5	0.0	0.0	0.5	0.0	0.0
FLA010538	CLERBROOK RV RESORTS	0.6	0.0	0.0	0.6	0.0	0.0
FLA010541	WEKIVA FALLS RESORT	0.3	0.0	0.0	0.3	0.0	0.0
FLA010851	CLARCONA RESORT CONDO	0.6	0.0	0.0	0.3	0.0	0.0
FLA010833	MONTEREY MUSHROOM FARM (TERRY FARMS)	0.0	0.0	0.0	0.0	0.0	0.0
FLA010498	SEMINOLE SPRINGS ELEMENTARY SCHOOL WWTF	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL DISCHARGE (MT/YR)		205	10	124	164	3	104
GRAND TOTAL DISCHARGE (MT/YR)		339			272		

Notes:

MT/YR = metric tons per year

= indicates change in amount of groundwater discharge due to implementation of 62-600.550, FAC.

WSA Subtotals

60

10

31

19

3

12

Created by: SAR 3/19/07

Edited by: JAT 2/8/10

Checked by: WAT 2/8/10

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Table 2. Groundwater, surface water, and reuse nitrate discharge by facility, current condition.																														
	GW DISCHARGE (MT/YR)	SW DISCHARGE (MT/YR)	REUSE (MT/YR)	FACILITY ID	NAME	CAPACITY (MGD)	GROUNDWATER DISCHARGE	ALLOWABLE DISCHARGE (MGD)	ACTUAL DISCHARGE (MGD)	NITRATE CONCENTRATION (MG/L)	TN RELEASE (MT/YR)	SURFACE WATER DISCHARGE	ALLOWABLE DISCHARGE (MGD)	ACTUAL DISCHARGE (MGD)	NITRATE CONCENTRATION (MG/L)	TN RELEASE (MT/YR)	RECLAMATION/R EUSE	ALLOWABLE DISCHARGE	ACTUAL DISCHARGE	NITRATE CONCENTRATION (MG/L)	TN RELEASE (MT/YR)	WAVA PROTECTION ZONE	WSA							
	138.4	0.0	92.6	FLA010795	CONSERV II DISTRIBUTION CENTER	80.9	RIBS	29.2	19.528	4.5	138.4						slow rate public access reuse system	51.93	13.07	4.5	92.6	TERTIARY	NO							
	29.6	1.4	0.0	FLA010798	OCUD/NORTHWEST WATER RECLAMATION FACILITY	7.9	RIBS	4.5	3.3	5.7	29.6	Effluent to Lake Marden	3		0.3	1.4				5.7	0.0	SECONDARY	YES							
	18.0	0.0	0.0																				SECONDARY	YES						
	1.5	0.0	5.0	FLA010818	APOPKA WRF - PROJECT ARROW	4	slow rate restricted public access land application system	2	0.6	1.6	1.5						slow rate public access land application system	4.0	1.99	1.6	5.0	SECONDARY	YES							
	6.2	8.8	19.0	FL0036251	WEKIVA HUNT CLUB	2.9	RIBS	0.4	0.423	9.3	6.2	surface water discharge Sweetwater Creek/Cove Lake	2.9	0.599	9.3	8.8	slow rate public access reuse system	2.603	1.298	9.3	19.0	SECONDARY	YES							
	1.4	0.0	7.1	FLA010815	OCOEE, CITY OF	1.6	RIBS	0.35	0.271	3.2	1.4						slow rate public access reuse system 2.25		1.4	3.2	7.1	SECONDARY	YES							
	4.3	0.0	0.0	FLA010512	CLERMONT/WEST WWTF #1	0.75	slow rate restricted public access system (sprayfield)	0.75	0.628	4.3	4.3											TERTIARY	NO							
	0.9	0.0	0.0	FLA011105	SHADOW HILLS WWTF	0.47	RIBS	0.47	0.376	1.6	0.9											PRIMARY NO								
	1.5	0.0	0.0	FLA010865	ZELLWOOD STATION MHP	0.3	RIBS	0.3	0.137	7	1.5											PRIMARY YES								
	0.02	0.0	0.0	FLA010855	COCA-COLA/APOPKA FACILITY	0.255	land application system (spray irrigation field)	0.117	0.053	0.21	0.02												SECONDARY	YES						
	0.8	0.0	0.0	FLA295965	EUSTIS - EASTERN	0.19	RIBS	0.19	0.022	23	0.8												SECONDARY	YES						
	0.5	0.0	0.0	FLA010660	LAKE COUNTY CORRECTIONAL	0.18	slow rate restricted public access system (sprayfield)	0.18	0.148	2.3	0.5												PRIMARY NO							
	0.2	0.0	0.0	FLA185761	QUAIL VALLEY	0.16	RIBS	0.16	0.045	2.9	0.2												SECONDARY	NO						
	0.5	0.0	0.0	FLA010656	SUNSHINE PARKWAY WWTF	0.15	RIBS	0.15	0.082	4	0.5												TERTIARY	NO						
	0.6	0.0	0.0	FLA010538	CLERBROOK RV RESORTS	0.12	RIBS	0.12	0.036	10	0.6												SECONDARY	NO						
	0.3	0.0	0.0	FLA010541	WEKIVA FALLS RESORT	0.0990	RIBS	0.099	0.099	2	0.3												SECONDARY	YES						
	0.6	0.0	0.0	FLA010851	CLARCONA RESORT CONDO	0.08	RIBS	0.08	0.06	6	0.6												SECONDARY	YES						
	0.0	0.0	0.0	FLA010833	MONTEREY MUSHROOM FARM (TERRY FARMS)	0.076	perc ponds	0.076	0.061	0.3	0.03												SECONDARY	YES						
	0.0	0.0	0.0	FLA010498	SEMINOLE SPRINGS ELEMENTARY SCHOOL WWTF	0.01	absorption field/drainfield	0.01	0.003	4	0.02												TERTIARY	YES						
	TOTAL DISCHARGE (MT/YR)	205	10	124	TOTAL ALLOWABLE DISCHARGE		53.9520	42.1520					5.9					0.599					60.783					17.758		
	GRAND TOTAL DISCHARGE (MT/YR)	339			TOTAL ACTUAL DISCHARGE		45.9910																							
	Notes:																													
	MT/YR = metric tons per year																													
	MGD = million gallons per day																													
	MG/L = milligrams per liter																													
	Created by: SAR 3/19/07																													
	Edited by: JAT 2/2/10																													
Checked by: WAT 2/11/10																														

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Table 3. Groundwater, surface water, and reuse nitrate discharge by facility from implementation of 62-600.550, FAC (Wekiva Study Area only).

	GW DISCHARGE (MT/YR)	SW DISCHARGE (MT/YR)	REUSE (MT/YR)	FACILITY ID	NAME	CAPACITY (MGD)	GROUNDWATER DISCHARGE	ALLOWABLE DISCHARGE (MGD)	ACTUAL DISCHARGE (MGD)	CONCENTRATION (MG/L)	RELEASE (MT/YR)	SURFACE WATER DISCHARGE	ALLOWABLE DISCHARGE (MGD)	ACTUAL DISCHARGE (MGD)	CONCENTRATION (MG/L)	RELEASE (MT/YR)	RECLAMATION/RE USE	ALLOWABLE DISCHARGE	ACTUAL DISCHARGE	CONCENTRATION (MG/L)	RELEASE (MT/YR)	WAVA PROTECTION ZONE	WSA	
	138.4	0.0	92.6	FLA010795	CONSERV II DISTRIBUTION CENTER	80.9	RIBS 29.2		19.528	4.5	138.4						slow rate public access reuse system	51.93	13.07	4.5	92.6	TERTIARY	NO	
	9.6	1.2	0.0	FLA010798	OCUD/NORTHWEST WATER RECLAMATION FACILITY	7.9	RIBS	4.5	3.3	2.1	9.6	Effluent to Lake Marden	3		0.3	1.2						SECONDARY	YES	
	5.1	0.0	0.0	FLA010798	OCUD/NORTHWEST WATER RECLAMATION FACILITY	7.9	slow rate restricted public access system (enhanced wetlands)	3	1.762	2.1	5.1											SECONDARY	YES	
	0.7	0.0	2.2	FLA010818	APOPKA WRF - PROJECT ARROW	4	slow rate restricted public access land application system	2	0.6	0.8	0.7							slow rate public access land application system	4	1.99	0.8	2.2	SECONDARY	YES
	1.4	2.0	4.3	FL0036251	Sanlando Utilities;WEKIVA HUNT CLUB	2.9	RIBS	0.4	0.423	2.4	1.4	surface water discharge Sweetwater Creek/Cove Lake	2.9	0.599	2.4	2.0		slow rate public access reuse system	2.603	1.298	2.4	4.3	SECONDARY	YES
	1.0	0.0	5.2	FLA010815	OCOEE, CITY OF	1.6	RIBS	0.35	0.271	2.7	1.0							slow rate public access reuse system	2.25	1.4	2.7	5.2	SECONDARY	YES
	4.3	0.0	0.0	FLA010512	CLERMONT/WEST WWTF #1	0.75	slow rate restricted public access system (sprayfield)	0.75	0.628	4.3	4.3												TERTIARY	NO
	0.9	0.0	0.0	FLA011105	SHADOW HILLS WWTF	0.47	RIBS	0.47	0.376	1.6	0.9												PRIMARY NO	
	0.2	0.0	0.0	FLA010865	ZELLWOOD STATION MHP	0.3	RIBS	0.3	0.137	1	0.2												PRIMARY YES	
	0.0	0.0	0.0	FLA010855	COCA-COLA/APOPKA FACILITY	0.255	land application system (spray irrigation field)	0.117	0.053	0.21	0.0												SECONDARY	YES
	0.0	0.0	0.0	FLA295965	EUSTIS - EASTERN	0.19	RIBS	0.19	0.022	1.6	0.0												SECONDARY	YES
	0.5	0.0	0.0	FLA010660	LAKE COUNTY CORRECTIONAL	0.18	slow rate restricted public access system (sprayfield)	0.18	0.148	2.3	0.5												PRIMARY NO	
	0.2	0.0	0.0	FLA185761	QUAIL VALLEY	0.16	RIBS	0.16	0.045	2.9	0.2												SECONDARY	NO
	0.5	0.0	0.0	FLA010656	SUNSHINE PARKWAY WWTF	0.15	RIBS	0.15	0.082	4	0.5												TERTIARY	NO
	0.6	0.0	0.0	FLA010538	CLERBROOK RV RESORTS	0.12	RIBS	0.12	0.036	10	0.6												SECONDARY	NO
	0.3	0.0	0.0	FLA010541	Wekiva Falls Resorl	0.0990	RIBS	0.099	0.099	2	0.3												SECONDARY	YES
	0.3	0.0	0.0	FLA010851	CLARCONA RESORT CONDO	0.08	RIBS	0.08	0.06	3.3	0.3												SECONDARY	YES
	0.0	0.0	0.0	FLA010833	MONTEREY MUSHROOM FARM (TERRY FARMS)	0.076	perc ponds	0.076	0.061	0.3	0.0												SECONDARY	YES
	0.0	0.0	0.0	FLA010498	SEMINOLE SPRINGS ELEMENTARY SCHOOL WWTF	0.01	absorption field/drainfield	0.01	0.003	4	0.0												TERTIARY	YES
	TOTAL DISCHARGE (MT/YR)	164	3	104	TOTAL ALLOWABLE DISCHARGE		53.9520	42.1520		27.6340				5.9	0.599			60.783		17.758				
	GRAND TOTAL DISCHARGE (MT/YR)	272			TOTAL ACTUAL DISCHARGE		45.9910																	

Notes:
MT/YR = metric tons per year
MGD = million gallons per day
MG/L = milligrams per liter
= change in discharge/concentration from current condition

Created by: SAR 3/19/07
Edited by: JAT 2/11/10
Checked by: WAT 2/11/10