



Seminole County Environmental Services
Department
Greenwood Lakes Water Reclamation Facility
Operational Permit Renewal

UPDATED CAPACITY ANALYSIS REPORT

FINAL | May 2023





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Greenwood Lakes Water Reclamation Facility

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FINAL | May 2023

Prepared by:



Carollo Engineers, Inc.

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Orlando, FL 32801

407-478-4642

CURRENT PERMIT

FDEP Domestic Wastewater Facility Permit Number: FLA011086

Effective Date: November 7, 2013 | Expiration Date: November 3, 2023

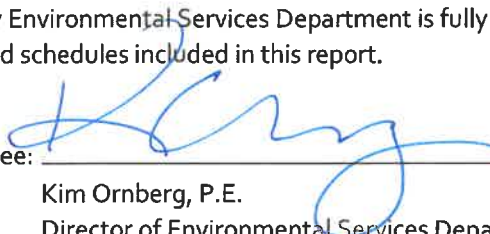
UPDATED CAPACITY ANALYSIS REPORT
GREENWOOD LAKES WATER RECLAMATION FACILITY
Seminole County

FDEP Domestic Wastewater Facility Permit Number: FLA011089

Effective Date: November 7, 2013 | Expiration Date: November 3, 2023

Permittee Certification

The Seminole County Environmental Services Department is fully aware and intends to comply with the recommendations and schedules included in this report.

Permittee: 

Kim Ornberg, P.E.
Director of Environmental Services Department
500 West Lake Mary Boulevard
Sanford, Florida 32773
407-665-2012

Professional Engineer Certification

The information contained in this report is true and correct to the best of our knowledge, this report was prepared in accordance with sound engineering principles, and Carollo Engineers, Inc. has discussed the recommendations and schedules with Seminole County Environmental Services Department.

This item has been digitally signed and sealed by
David T. Tran on the date adjacent to the seal.

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on any electronic copies.

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Section 1

INTRODUCTION

Owned and operated by Seminole County Environmental Services Department (County), the Greenwood Lakes Water Reclamation Facility (GLWRF) is a Carrousel (oxidation ditch) domestic wastewater treatment facility permitted to treat 3.0 million gallons per day (mgd) annual average daily flow (AADF). The GLWRF serves the County's Northeast Service Area (NESA) and is located at 701 Greenway Boulevard, Lake Mary, Florida 32746. The GLWRF is operated under domestic wastewater facility permit number FLA011086 issued by the Florida Department of Environmental Protection (FDEP), which expires November 3, 2023.

Carollo Engineers, Inc. (Carollo) was tasked with renewing the operating permit for the GLWRF. This Capacity Analysis Report (CAR) was prepared as a part of the operating permit renewal application in accordance with Chapter 62-600, Domestic Wastewater Facilities of the Florida Administrative Code (FAC).

1.1 Facility Description

Figure 1 shows the site location map of the GLWRF. Figure 2 provides a site map to identify the locations of major treatment process, pumping, and effluent storage areas of the GLWRF site. Figure 3 show a simplified process flow diagram for the GLWRF and identify the major treatment processes and sampling points.

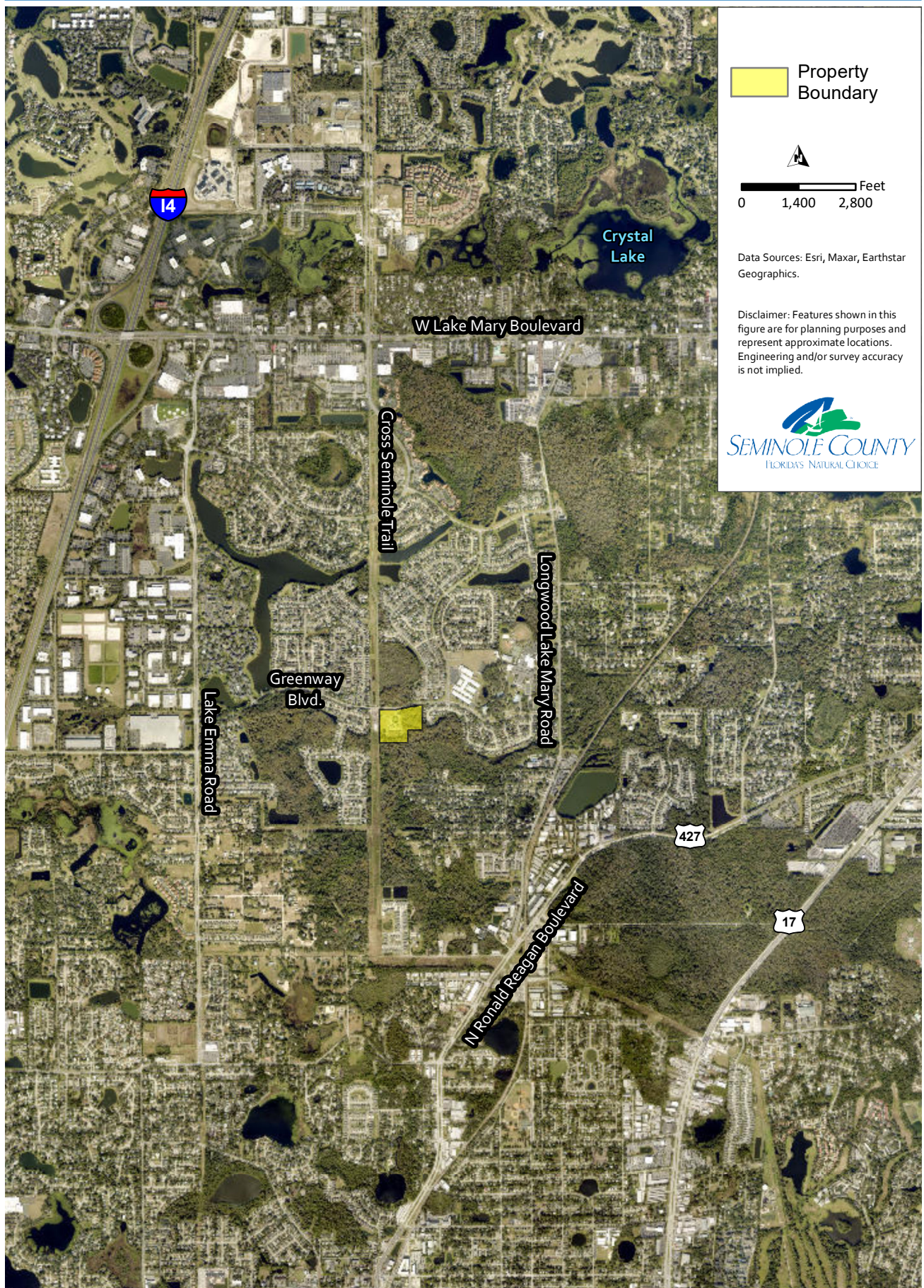
Raw influent enters the facility through a 30-inch gravity sewer before discharging to the influent splitter structure which can divert flow to one of two preliminary screening trains. The raw influent then gets screened via mechanical bar screens before entering the master lift station wetwell. From there, the screened influent is pumped through a 24-inch force main up to the top of the elevated pretreatment structure where the flow is screened again through a pair of manually cleaned bar racks. Immediately following, the flow enters a pair of forced vortex grit removal systems to conclude preliminary treatment.

Screened and degritted influent then flows by gravity to the equalization (EQ)/anoxic tank where return activated sludge (RAS) is introduced creating mixed liquor (ML). The ML is then pumped through the EQ transfer pump station to the aeration basins. Alternatively, the EQ tank can be bypassed and flow directly by gravity from the elevated pretreatment structure to the aeration basin. Flow then enters the aeration basin splitter box where flow is split between the two trains, aeration is provided via mechanical aerators and diffused air. The ML then flows to the clarifier splitter box where flow is split to the two clarifiers. Secondary effluent (SE) that overflows the clarifier weirs flows by gravity to the filtration process. Activated sludge produced from the settled solids from the clarifiers will flow to the RAS/WAS sludge boxes before being pump back to the EQ tank (RAS) or the sequential facultative digestion (SFD) as waste activated sludge (WAS).

SE then flows through a single mechanical bar screen before entering the filtration system consisting of eight (8) DynaSand® deep bed continuous backwash filters. The filtered effluent (FE) then flows to the chlorine contact chamber (CCC) splitter box for split to a pair of CCC's for

final disinfection before effluent discharge. The effluent transfer pump station pumps the final effluent to two offsite reclaimed water ground storage tanks (GSTs), where it can be distributed to the PAR system, or diverted to the rapid infiltration basins (RIBs) as backup disposal prior to entering the GST's

The facility's biosolids handling system includes a sludge storage tank and sludge dewatering via belt filter press. Dewatered sludge is hauled off to the County's landfill.



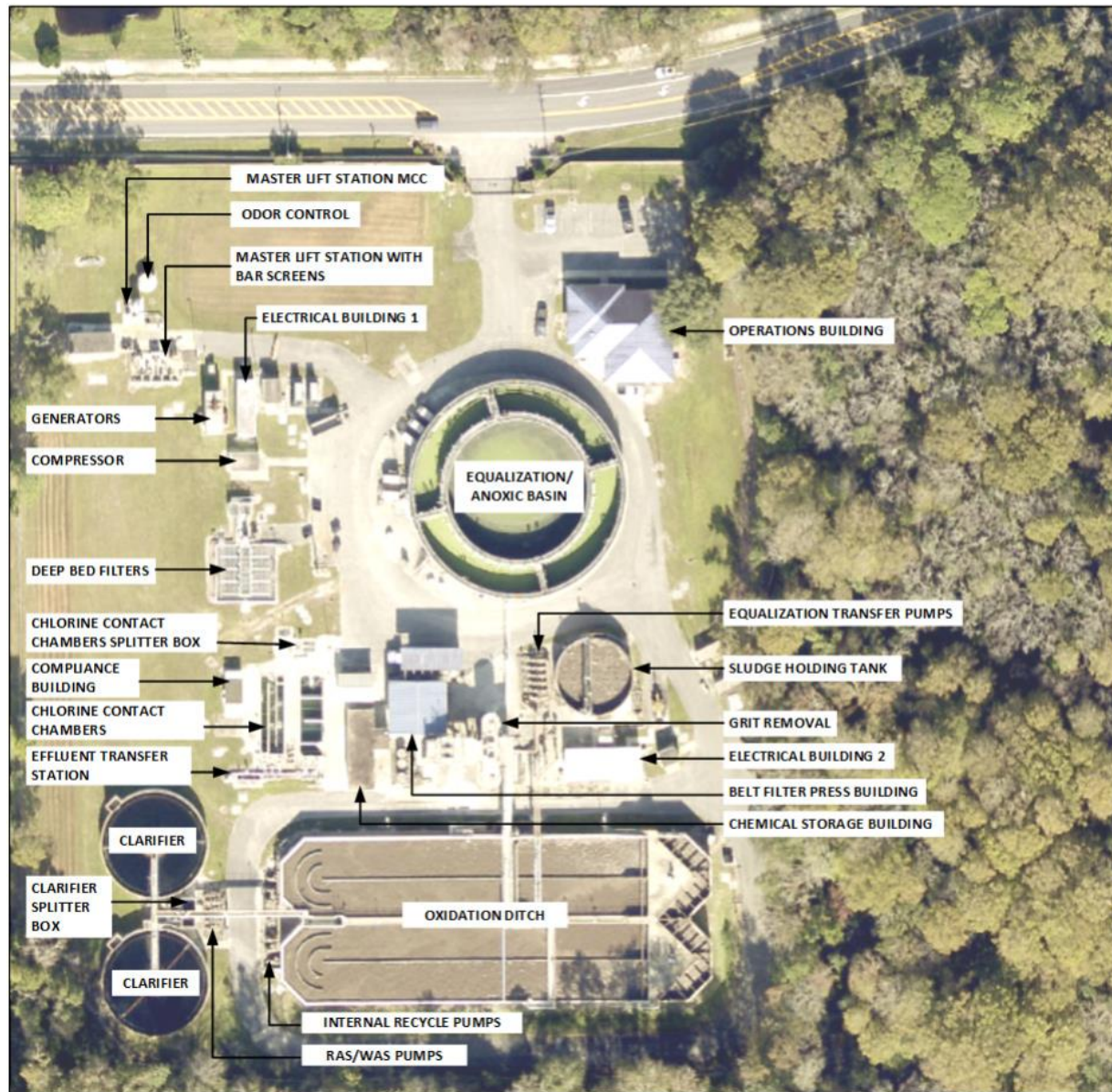
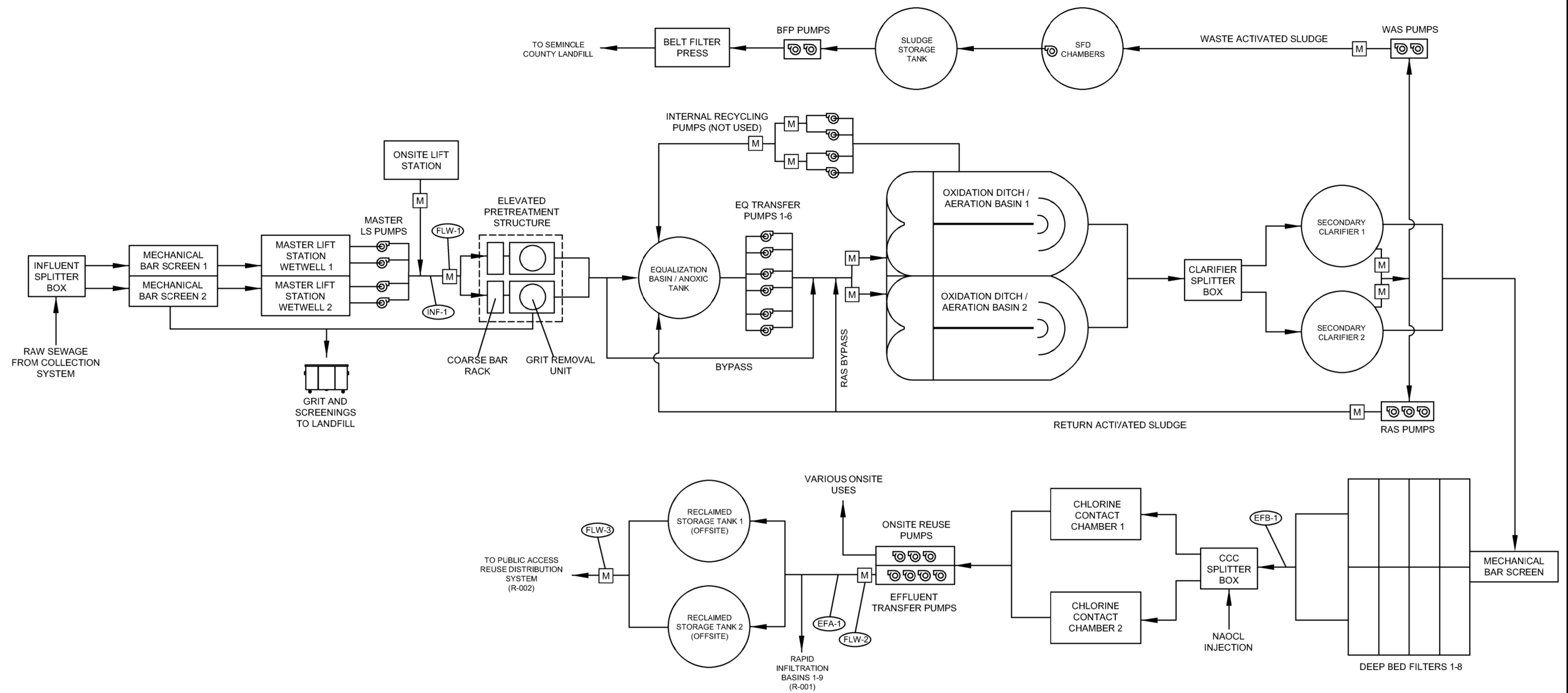


Figure 2 Greenwood Lakes WRF – Site Map



**PROCESS FLOW DIAGRAM
GREENWOOD LAKES WATER
RECLAMATION FACILITY**

Section 2

EXISTING CONDITIONS

The following sections describe the existing permitted capacity, historical flows and loads, and original design criteria for the GLWRF.

2.1 Permitted Capacities

The GLWRF is currently permitted to treat 3.0 mgd AADF. Reclaimed water from the facility is permitted to go to a 3.0 mgd AADF public access reuse (PAR) system, R-002. This system includes irrigation within the approved reuse service area. The facility is also permitted to discharge 1.8 mgd AADF to 9 rapid infiltration basins (RIBs), R-001, as a backup disposal method for when PAR effluent water quality requirements are not met.

2.2 Water Quality Requirements

The current water quality requirements permitted for RIB discharge (R-001) and PAR discharge (R-002) are shown in Table 1 and

(1) Monthly geometric mean

Table 2.

Reclaimed water is primarily disposed of through the PAR system. Any reclaimed water that does not meet the quality requirements is routed to the RIBs.

Table 1 Current Facility RIBs Water Quality Limits (R-001)

Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample
cBOD ₅ ⁽¹⁾	mg/L	Max	20.0	30.0	45.0	60.0
TSS ⁽²⁾	mg/L	Max	20.0	30.0	45.0	60.0
Fecal coliform	#/100 mL	Max	200 ⁽⁶⁾	200	-	800
pH	std. units	Range	-	-	-	6.0 to 8.5
Chlorine ⁽³⁾	mg/L	Min	-	-	-	0.5
TN ⁽⁴⁾	mg/L	Max	3.0	Report	-	-
Nitrate ⁽⁵⁾	mg/L	Max	-	-	-	12.0

Notes:

(1) cBOD₅ – carbonaceous five-day biochemical oxygen demand.

(2) TSS – total suspended solids.

(3) Chlorine – total residual (for disinfection).

(4) TN – total nitrogen (as N).

(5) Total Nitrate (as N).

(6) Monthly geometric mean

Table 2 Current Facility PAR Reclaimed Water Quality Limits (R-002)

Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample
cBOD ₅ ⁽¹⁾	mg/L	Max	20.0	30.0	45.0	60.0
TSS ⁽²⁾	mg/L	Max	-	-	-	5.0
Fecal coliform	#/100 mL	Max	-	-	-	25
pH	std. units	Range	-	-	-	6.0 to 8.5
Chlorine ⁽³⁾	mg/L	Min	-	-	-	1.0
Turbidity	NTU	Max	-	-	-	Report
TN ⁽⁴⁾	mg/L	Max	10.0	Report	-	-
TP ⁽⁵⁾	mg/L	Max	Report	Report	-	-
Giardia	Cysts/100L	Max	-	-	-	Report
Cryptosporidium	Oocysts/100L	Max	-	-	-	Report

Notes:

(1) cBOD₅ – carbonaceous five-day biochemical oxygen demand.

(2) TSS – total suspended solids.

(3) Chlorine – total residual (for disinfection).

(4) TN – total nitrogen (as N).

(5) TP – total phosphorus (as P).

2.3 Historical Flow Data

In accordance with FDEP's Guidelines for the Preparation of CARs, the updated CAR must provide data showing the month average daily flow (MADF), three-month average daily flows (3-MADF), and AADF for the past 10 years. Monthly discharge monitoring reports (DMRs) and other supplemental data were provided by the County and used for the historical flow analyses.

Table 3 presents 10 years of historical MADF at the GLWRF from January 2013 to December 2022. In addition, the minimum monthly average, maximum monthly average, and annual average flows for each year are provided in this table. Table 3 shows that the yearly AADF from the GLWRF did not exceed the permitted capacity of 3.0 mgd in the 10-year period between 2013 and 2022. Figure 4 graphically shows the MADFs over the recent 10-year period.

Table 3 Greenwood Lakes WRF Historical Monthly and Annual Average Daily Flows⁽¹⁾

Month/Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
January	1.94	1.98	2.13	2.10	2.01	2.25	2.26	2.27	1.99	1.94
February	1.92	1.98	2.11	2.11	1.85	2.21	2.29	2.30	1.88	1.96
March	1.93	1.25	2.08	2.08	1.91	2.12	2.24	2.25	2.08	1.98
April	1.96	2.01	2.09	2.07	1.93	2.02	2.25	2.09	2.14	2.04
May	1.98	2.03	2.06	2.06	1.82	2.02	2.23	2.12	1.93	1.99
June	2.11	2.02	2.10	2.10	1.85	2.15	2.28	2.28	1.89	2.28
July	2.03	2.10	2.10	1.99	1.99	2.22	2.31	2.29	1.98	2.43
August	2.05	2.12	2.18	1.90	2.05	2.14	2.42	2.38	2.05	2.52
September	2.05	2.24	2.22	2.00	2.60	2.23	2.28	2.43	2.13	2.71

Month/Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
October	1.98	2.22	2.12	2.22	2.48	2.15	2.37	2.44	2.13	2.65
November	1.95	2.12	2.12	1.97	2.27	2.17	2.29	2.23	1.99	2.79
December	1.96	2.13	2.07	2.09	2.22	2.28	2.27	2.11	1.93	2.56
Minimum	1.92	1.25	2.06	1.90	1.82	2.02	2.23	2.09	1.88	1.94
Maximum	2.11	2.24	2.22	2.22	2.6	2.28	2.42	2.44	2.14	2.79
AADF	1.99	2.01	2.03	2.06	2.08	2.16	2.29	2.27	2.01	2.32
Permitted Capacity	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Notes:

(1) All units are in mgd.

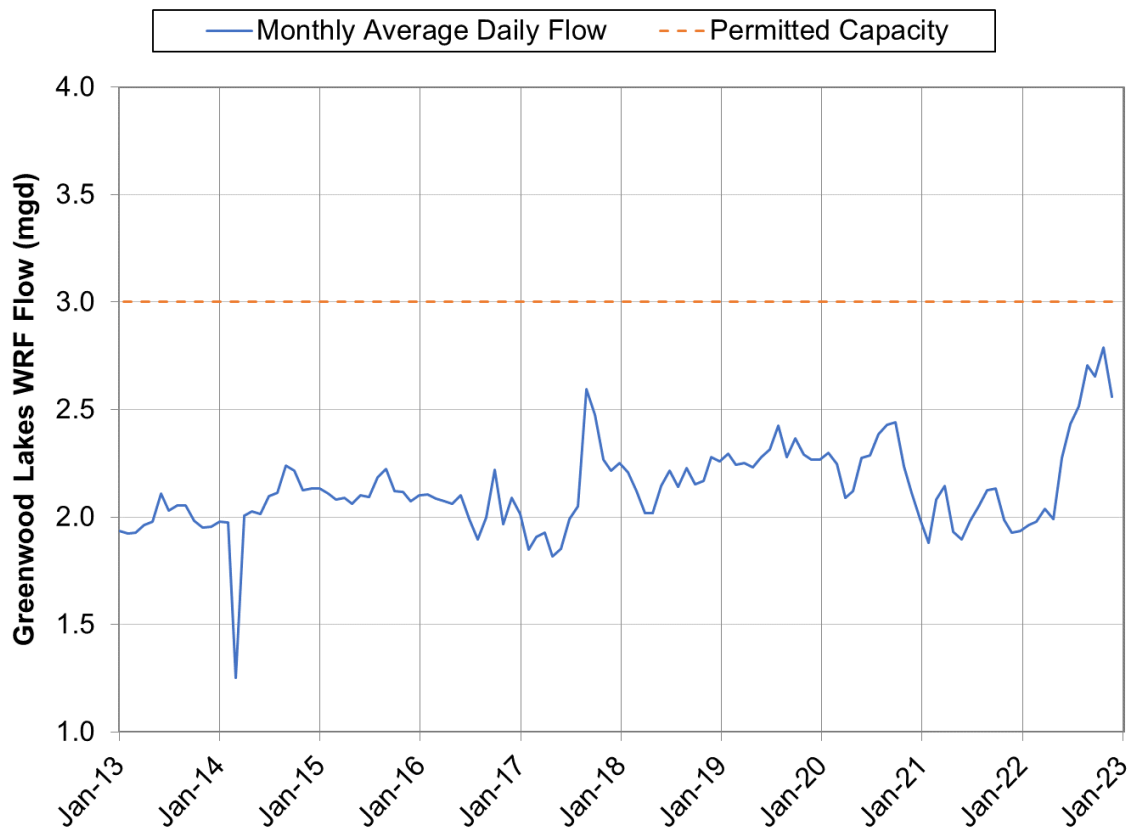


Figure 4 Greenwood Lakes WRF Monthly Average Daily Flow

Table 4 presents the 3-MADF from January 2013 to December 2022. Figure 5 illustrates the 3-MADF and the design capacity of the facility. The 3-MADF is calculated by adding the MADF observed during a three-month period and then dividing by three. The 3-MADF is a rolling average for each three-month period, calculated in mgd.

Table 4 Greenwood Lakes WRF Three-Month Average Daily Flows⁽¹⁾

Year/Month	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
January	1.94	1.96	2.13	2.10	2.02	2.25	2.24	2.27	2.11	1.95
February	1.93	1.97	2.12	2.09	1.98	2.23	2.28	2.28	1.99	1.94
March	1.93	1.73	2.11	2.10	1.92	2.19	2.27	2.27	1.98	1.96
April	1.94	1.74	2.09	2.09	1.89	2.12	2.26	2.21	2.03	1.99
May	1.96	1.76	2.08	2.07	1.88	2.05	2.24	2.15	2.05	2.00
June	2.02	2.02	2.08	2.08	1.87	2.06	2.25	2.16	1.99	2.10
July	2.04	2.05	2.09	2.05	1.89	2.13	2.27	2.23	1.94	2.23
August	2.06	2.08	2.13	2.00	1.96	2.17	2.34	2.32	1.98	2.41
September	2.05	2.15	2.17	1.96	2.21	2.19	2.34	2.37	2.05	2.55
October	2.03	2.19	2.18	2.04	2.37	2.17	2.36	2.42	2.10	2.63
November	2.00	2.19	2.15	2.06	2.45	2.18	2.31	2.37	2.08	2.72
December	1.96	2.16	2.10	2.09	2.32	2.20	2.31	2.26	2.02	2.67

Notes:

(1) All units are in mgd.

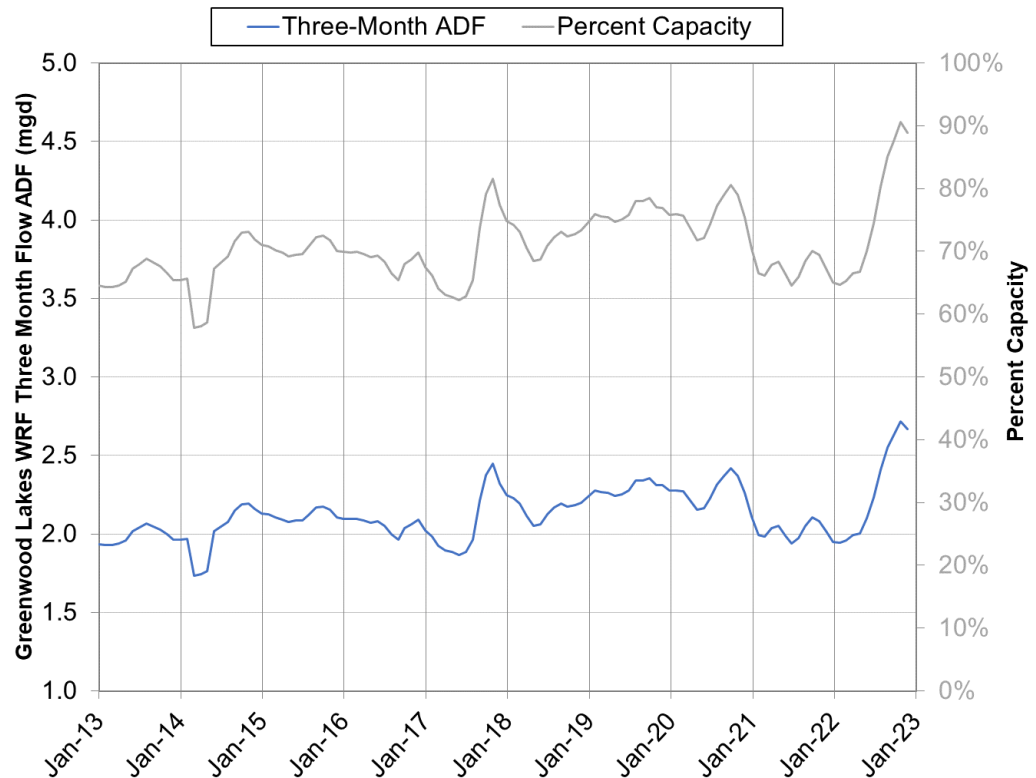


Figure 5 Greenwood Lakes WRF Three-Month Average Daily Flows

Table 5 shows the AADF from 2013 to 2022. Over the past 10 years, the GLWRF flow had increased from 2.01 mgd to 2.32 mgd, only experiencing a slight decline in 2021 before increasing back to expected trending level, as illustrated in Figure 6.

Figure 7 shows the MADF, 3-MADF, and the AADFs in a single chart from 2013 to 2022.

Table 5 Greenwood Lakes WRF Annual Average Daily Flows⁽¹⁾

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
AADF	1.99	2.01	2.03	2.06	2.08	2.16	2.29	2.27	2.01	2.32

Notes:

(1) All units are in mgd.

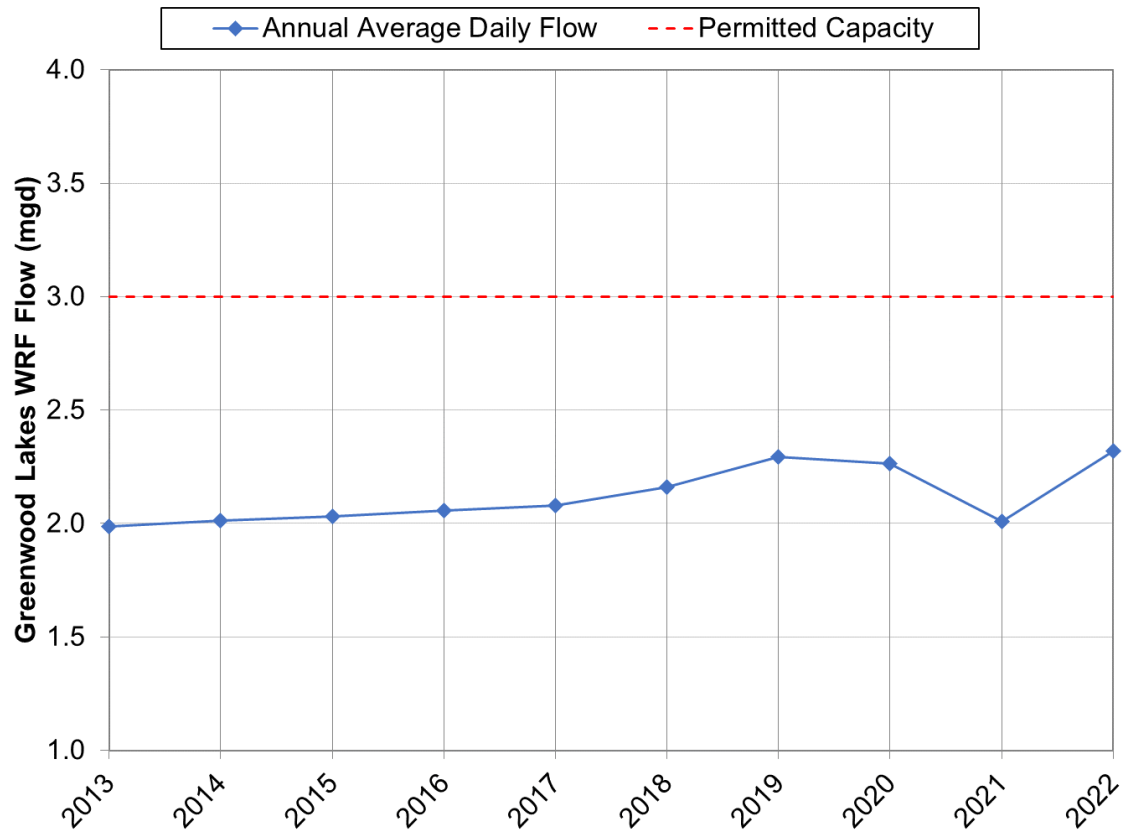


Figure 6 Greenwood Lakes WRF Annual Average Daily Flows

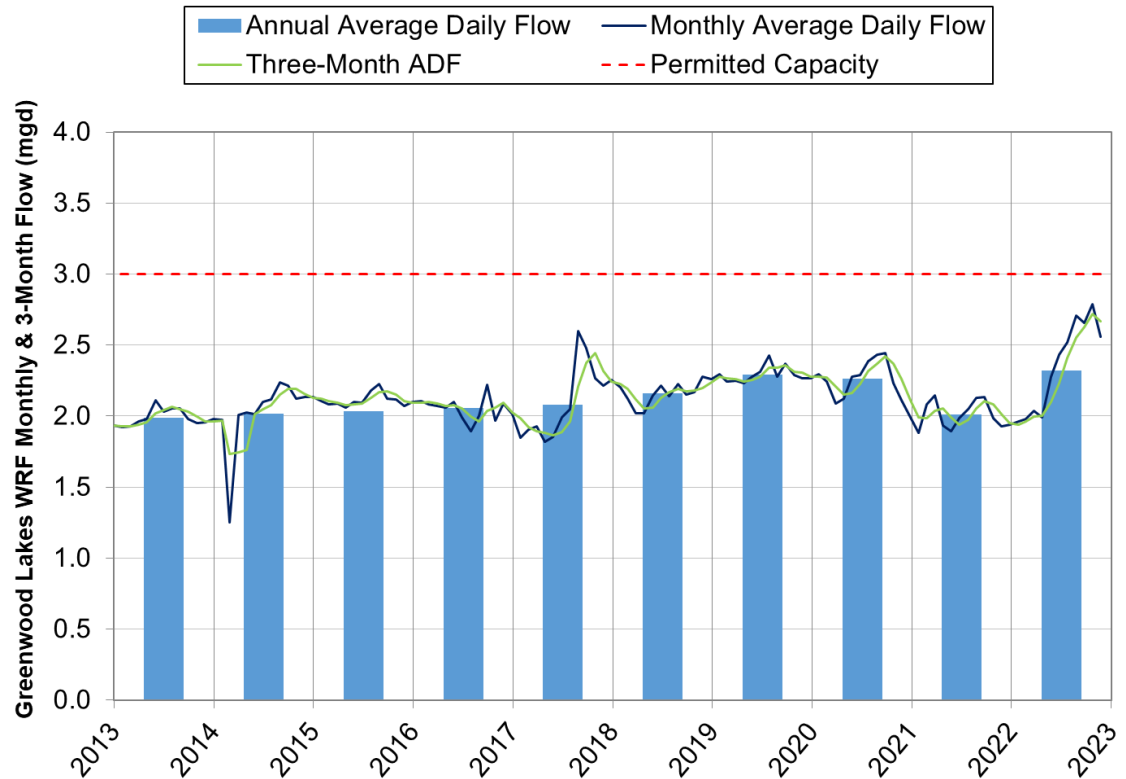


Figure 7 Greenwood Lakes WRF Monthly, Three-Month, and Annual Average Daily Flows

2.4 Seasonal Variations in Flow

Table 6 shows the ratio of the maximum 3-MADF to the AADF from January 2013 to December 2022, as well as the month in which that maximum 3-MADF was observed. The average ratio of the maximum 3-MADF to the AADF is 1.07 over the past 10 years.

The GLWRF experiences some seasonal variations with increased flow throughout different months each year (mainly October through January). However, the small value of the ratio (1.07) indicates that there is not a significant variation in flow for the facility's service area.

Table 6 Greenwood Lakes WRF Seasonal Flow Variation

Maximum 3-MADF			AADF ⁽¹⁾	Maximum 3-MADF to AADF Ratio
Year	Month	Flow ⁽¹⁾		
2013	August	2.06	1.99	1.04
2014	October/November	2.19	2.01	1.09
2015	October	2.18	2.03	1.07
2016	March	2.10	2.06	1.02
2017	November	2.45	2.08	1.18
2018	January	2.25	2.16	1.04
2019	October	2.36	2.29	1.03
2020	October	2.42	2.27	1.07
2021	January	2.11	2.01	1.05
2022	November	2.72	2.32	1.17
Average of 10 Years Maximum 3-MADF to AADF Ratio				1.07

Notes:

(1) All units are in mgd.

2.5 Historical Load Data

The FDEP's Guidelines for Preparation of CARs require that the loadings to the facility be tabulated for the past year based on the influent monitoring data. In accordance with the GLWRF's operating permit, influent CBOD₅ and TSS are sampled once a week. Influent data collection for total nitrogen (TN) and total phosphorus (TP) is not required for this facility.

Table 7 and Table 8 present the maximum influent CBOD₅ and TSS concentration and loadings per month for the past year (2022), respectively, and Figure 8 and Figure 9 graphically illustrate the CBOD₅ and TSS loadings.

In addition, a number of GLWRF effluent parameters are also monitored. Table 9,

Table 10, Table 11, and Table 12 present historical monthly average effluent CBOD₅, maximum monthly TSS, maximum monthly TN, and maximum monthly TP concentrations, respectively, for 2022.

Figure 10, Figure 11, Figure 12, and Figure 13 graphically illustrate the effluent CBOD₅, TSS, TN, and TP concentrations. All loadings are within the facility's design capacity.

Table 7 Greenwood Lakes WRF Influent Maximum Monthly CBOD₅ Concentration and Loading

Month	Year	Influent CBOD ₅ Concentration, mg/L	Influent CBOD ₅ Loading, lb/day
January	2022	255	4,123
February	2022	279	4,570
March	2022	267	4,409
April	2022	183	3,104
May	2022	275	4,559
June	2022	254	4,818
July	2022	266	5,391
August	2022	209	4,392
September	2022	201	4,547
October	2022	214	4,726
November	2022	156	3,633
December	2022	227	4,842
Average		232	4,426
Maximum		279	5,391

Table 8 Greenwood Lakes WRF Influent Maximum Monthly TSS Concentration and Loading

Month	Year	Influent TSS Concentration, mg/L	Influent TSS Loading, lb/day
January	2022	123	1,991
February	2022	226	3,699
March	2022	229	3,774
April	2022	75	1,267
May	2022	117	1,943
June	2022	199	3,770
July	2022	165	3,347
August	2022	113	2,362
September	2022	106	2,393
October	2022	124	2,739
November	2022	88	2,047
December	2022	198	4,217
Average		147	2,796
Maximum		229	4,217

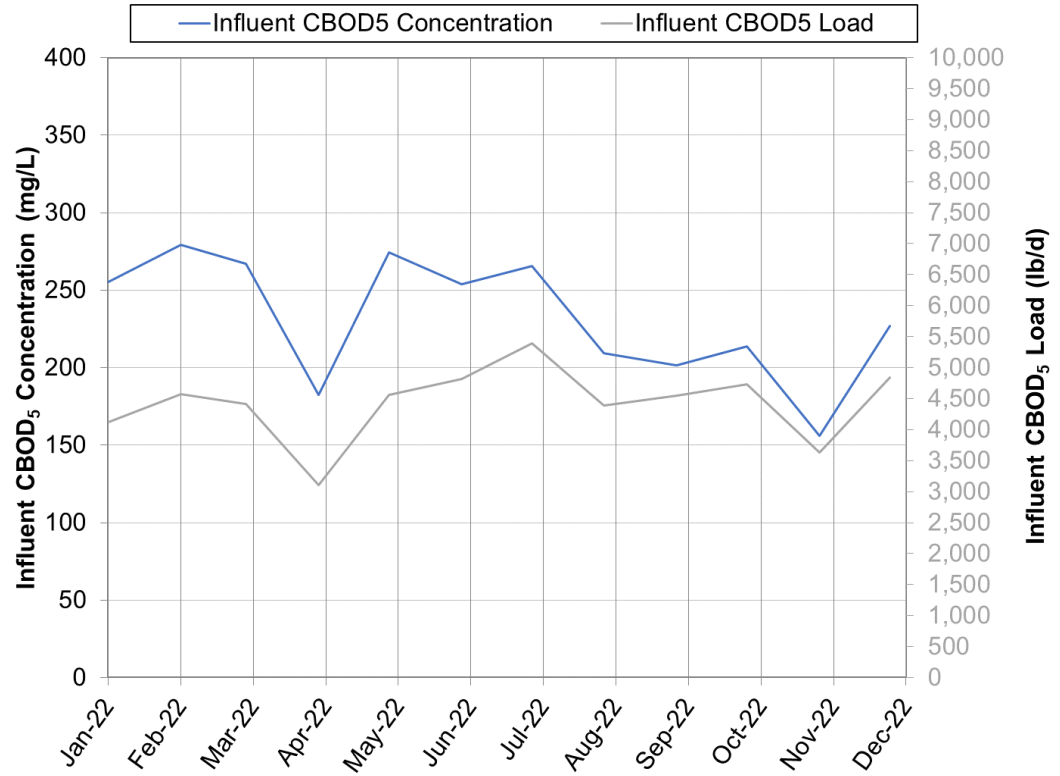


Figure 8 Greenwood Lakes WRF Maximum Monthly Influent CBOD₅ Concentration and Loading

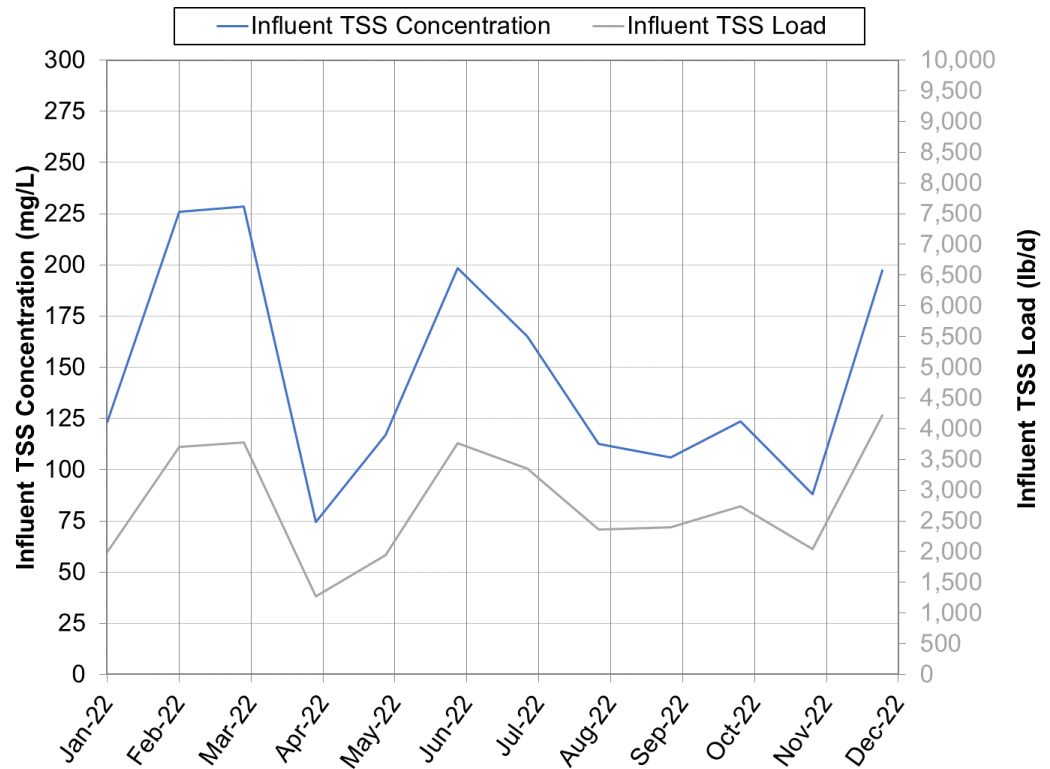


Figure 9 Greenwood Lakes WRF Maximum Monthly Influent TSS Concentration and Loading

Table 9 Greenwood Lakes WRF Effluent CBOD₅ Concentrations and Permit Limit Comparison

Month	Year	MADF (mgd)	Effluent CBOD ₅ Concentrations	
			Permit Limit Value mg/L	Monthly Average mg/L
January	2022	1.9	30	3.1
February	2022	2.0	30	1.0
March	2022	2.0	30	1.0
April	2022	2.0	30	3.3
May	2022	2.0	30	1.0
June	2022	2.3	30	1.0
July	2022	2.4	30	1.3
August	2022	2.5	30	1.3
September	2022	2.7	30	1.0
October	2022	2.7	30	1.0
November	2022	2.8	30	1.0
December	2022	2.6	30	1.0
Average		2.3	30	1.4
Maximum		2.8	30	3.3

Table 10 Greenwood Lakes WRF Effluent TSS Concentrations and Permit Limit Comparison

Month	Year	MADF (mgd)	Effluent TSS Concentrations	
			Permit Limit Value mg/L	Maximum mg/L
January	2022	1.9	5	0.8
February	2022	2.0	5	1.5
March	2022	2.0	5	1.5
April	2022	2.0	5	1.8
May	2022	2.0	5	0.9
June	2022	2.3	5	1.5
July	2022	2.4	5	0.5
August	2022	2.5	5	1.0
September	2022	2.7	5	0.9
October	2022	2.7	5	1.3
November	2022	2.8	5	1.0
December	2022	2.6	5	1.6
Average		2.3	5	1.2
Maximum		2.8	5	1.8

Table 11 Greenwood Lakes WRF Effluent Total Nitrogen (as N) Concentrations

Month	Year	MADF (mgd)	Effluent Total Nitrogen Nitrate (as N) Concentrations	
			Permit Limit Value mg/L	Maximum mg/L
January	2022	1.9	Report (mo. max)	1.5
February	2022	2.0	Report (mo. max)	1.5
March	2022	2.0	Report (mo. max)	1.3
April	2022	2.0	Report (mo. max)	1.4
May	2022	2.0	Report (mo. max)	1.4
June	2022	2.3	Report (mo. max)	1.4
July	2022	2.4	Report (mo. max)	1.4
August	2022	2.5	Report (mo. max)	1.3
September	2022	2.7	Report (mo. max)	1.2
October	2022	2.7	Report (mo. max)	1.3
November	2022	2.8	Report (mo. max)	1.3
December	2022	2.6	Report (mo. max)	1.9
Average		2.3	-	1.4
Maximum		2.8	-	1.9

Table 12 Greenwood Lakes WRF Effluent Total Phosphorus (as P) Concentrations

Month	Year	MADF (mgd)	Effluent Total Phosphorus (as P) Concentrations	
			Permit Limit Value mg/L	Maximum mg/L
January	2022	1.9	Report (mo. max)	0.24
February	2022	2.0	Report (mo. max)	0.20
March	2022	2.0	Report (mo. max)	0.17
April	2022	2.0	Report (mo. max)	0.33
May	2022	2.0	Report (mo. max)	0.52
June	2022	2.3	Report (mo. max)	0.54
July	2022	2.4	Report (mo. max)	0.33
August	2022	2.5	Report (mo. max)	0.30
September	2022	2.7	Report (mo. max)	11.00
October	2022	2.7	Report (mo. max)	0.28
November	2022	2.8	Report (mo. max)	0.31
December	2022	2.6	Report (mo. max)	0.25
Average		2.3	-	1.21
Maximum		2.8	-	11.00

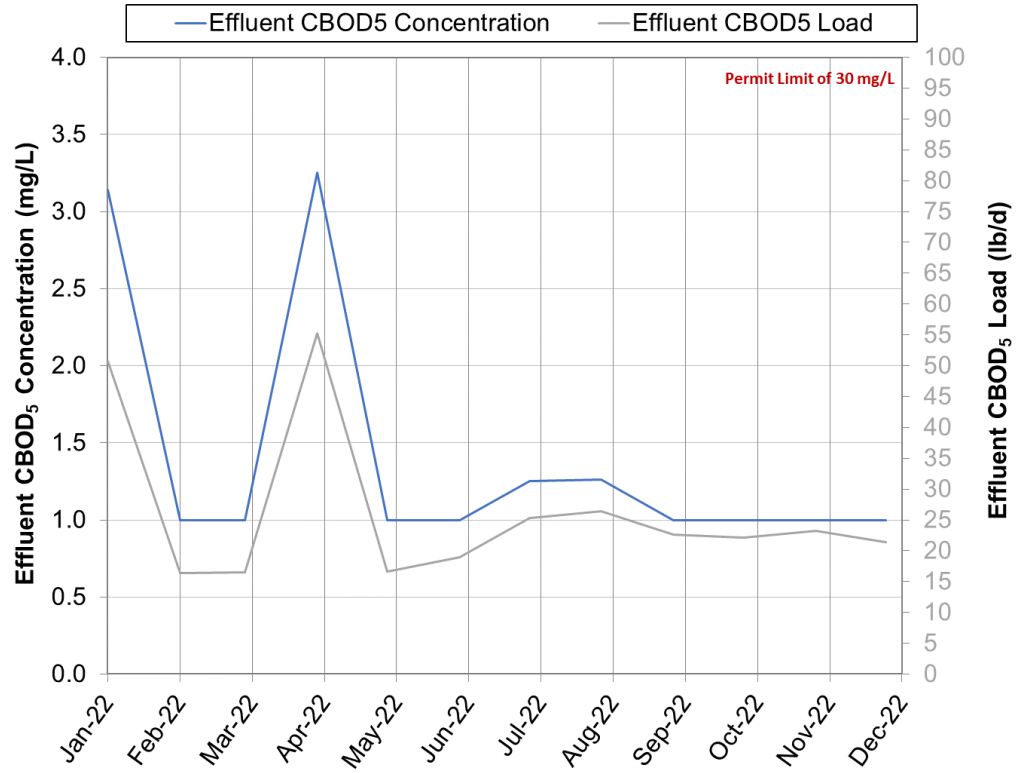


Figure 10 Greenwood Lakes WRF Monthly Average Effluent CBOD₅ Concentrations

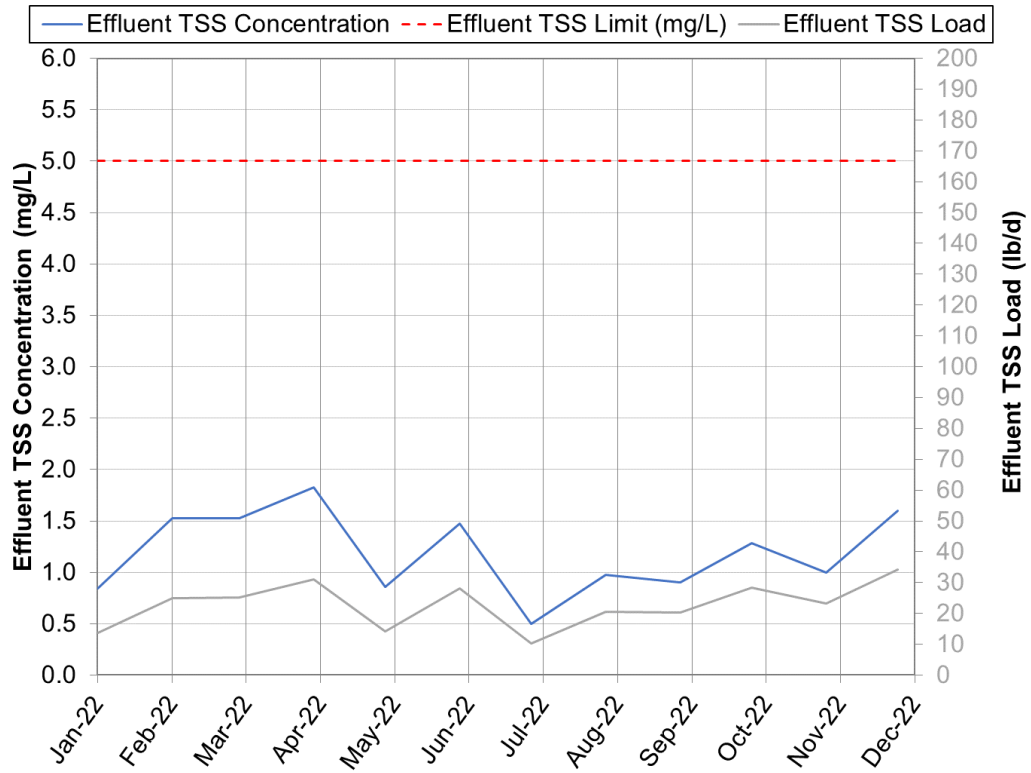


Figure 11 Greenwood Lakes WRF Maximum Monthly Effluent TSS Concentrations

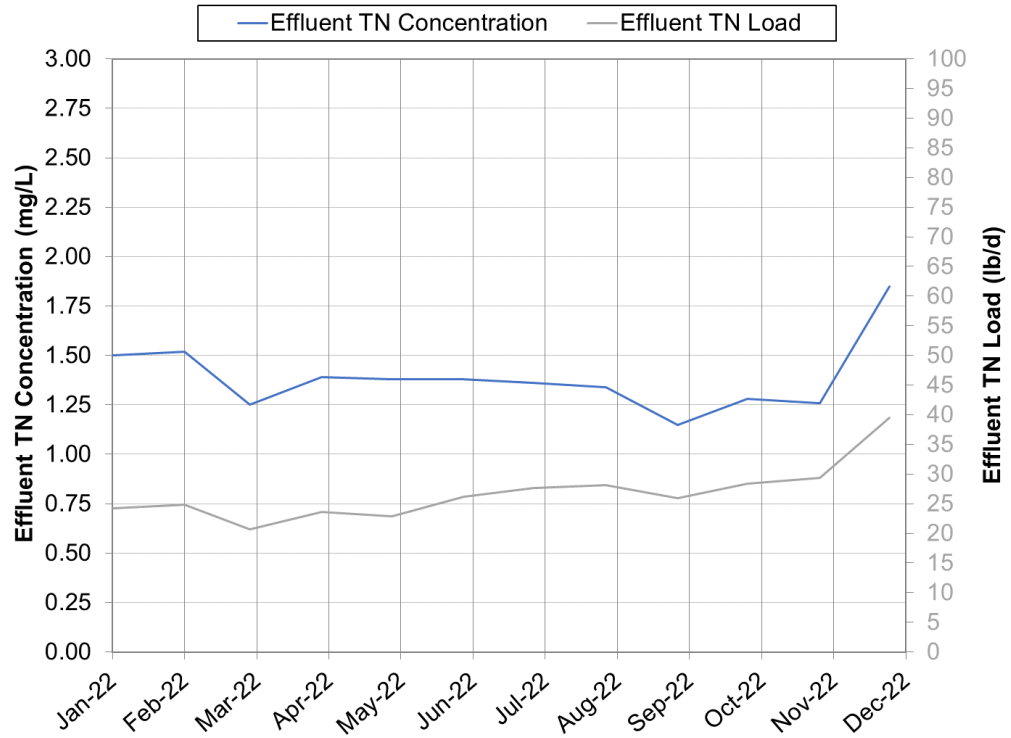


Figure 12 Greenwood Lakes WRF Maximum Monthly Effluent Total Nitrogen (as N) Concentrations

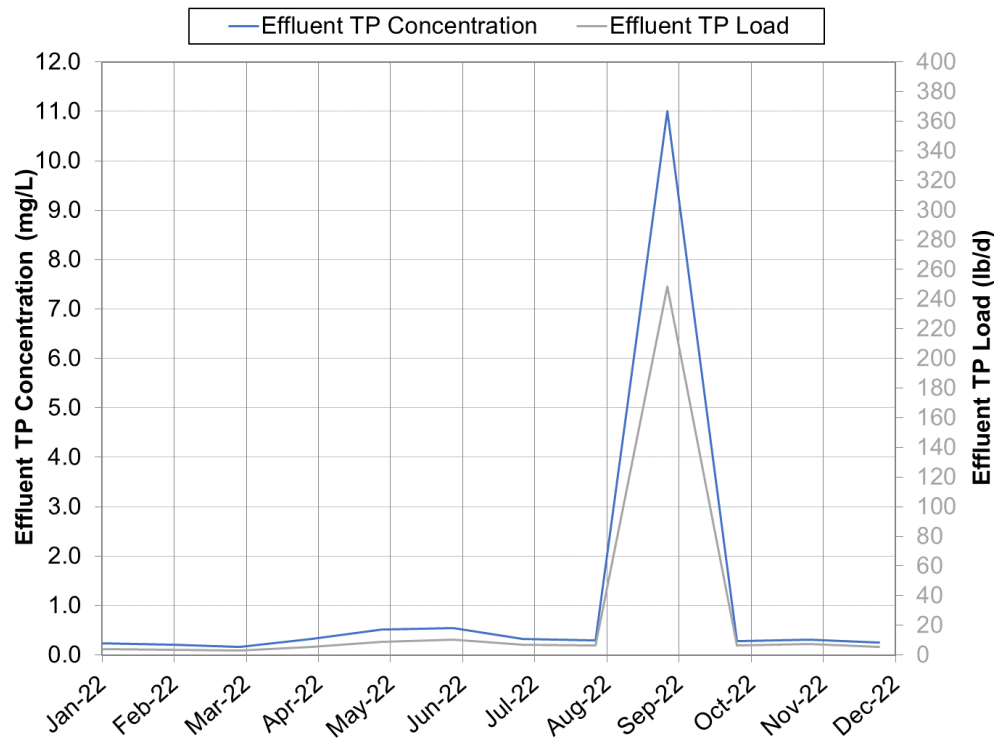


Figure 13 Greenwood Lakes WRF Maximum Monthly Effluent Total Phosphorus (as P) Concentrations

Section 3

FUTURE CONDITIONS

The following sections summarize the future population and flow projections through 2032.

3.1 Population and Flow Projections

The GLWRF projected service area population is shown in Figure 14 and Table 13. These projections were calculated using the Bureau of Economic and Business Research (BEBR) medium population projection for Seminole County. The County's projected flow is based on an average of 111 gallons per capita per day (gpcd), which was the average gpcd of the last four years (from 2019 to 2022).

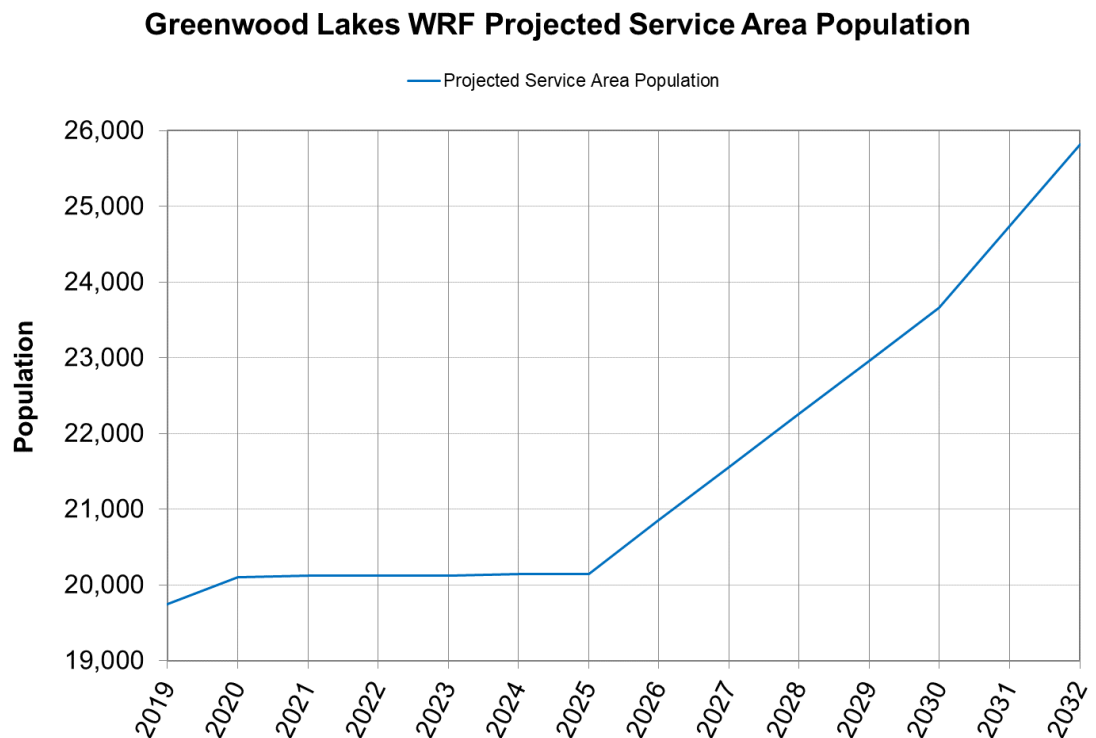


Figure 14 Greenwood Lakes WRF Projected Service Area Population through 2032

Table 13 Greenwood Lakes WRF Service Area Estimated Population and Flow

Year	Greenwood Lakes WRF Projected Service Area Population ⁽²⁾	GLWRF Historical and Projected AADF ⁽³⁾	GLWRF Historical and Projected gpc ⁽⁴⁾
2013	18,231	1.99	109
2014	18,342	2.01	110
2015	18,602	2.03	109
2016	18,853	2.06	109
2017	19,121	2.08	109
2018	19,364	2.16	112
2019	19,747	2.29	116
2020	20,101	2.27	113
2021	20,124	2.01	100
2022	20,124	2.32	115
2023 ⁽¹⁾	20,124	2.23	111
2024 ⁽¹⁾	20,148	2.23	111
2025 ⁽¹⁾	20,148	2.23	111
2026 ⁽¹⁾	20,852	2.31	111
2027 ⁽¹⁾	21,556	2.39	111
2028 ⁽¹⁾	22,259	2.46	111
2029 ⁽¹⁾	22,963	2.54	111
2030 ⁽¹⁾	23,667	2.62	111
2031 ⁽¹⁾	24,742	2.74	111
2032 ⁽¹⁾	25,817	2.86	111

Notes:

- (1) Indicates projection from 2023 through 2032.
- (2) Data referenced from BEBR medium projection.
- (3) Data referenced from FDEP DMRs.
- (4) Estimate of 111 gpc as average from 2019-2022.

The yearly maximum 3-MADF for the GLWRF was projected for the next 10 years (through 2032) per FDEP requirements for preparation of a CAR. The max 3-MADF was analyzed for each year from 2013 to 2022. The average ratio of max 3-MADF to AADF for the previous five years (2018 through 2022) was 1.07, which was used to estimate the projected GLWRF maximum 3-MADF through 2032. The maximum MADF was also projected through 2032 using the same methodology (1.09 ratio from 2018 through 2022). The projections are presented in Table 14 and illustrated in Figure 15.

Table 14 Greenwood Lakes WRF Projected Maximum MADF and Maximum 3-MADF through 2032

Year	Historical Max 3-MADF ⁽¹⁾	Max 3-MADF:AADF	Projected Max MADF ⁽²⁾	Projected Max 3-MADF ⁽³⁾
2013	2.06	1.04		
2014	2.19	1.09		
2015	2.18	1.07		
2016	2.10	1.02		
2017	2.45	1.18		
2018	2.25	1.04		
2019	2.36	1.03		
2020	2.42	1.07		
2021	2.11	1.05		
2022	2.72	1.17		
(2018 - 2022 Average = 1.07)				
2023			2.44	2.39
2024			2.44	2.40
2025			2.44	2.40
2026			2.53	2.48
2027			2.61	2.56
2028			2.70	2.65
2029			2.78	2.73
2030			2.87	2.81
2031			3.00	2.94
2032			3.13	3.07

Notes:

(1) All units are in mgd.

(2) Projection using a 1.09 ratio of MMADF:AADF is average of last 5 years' ratio.

(3) Projection using a 1.07 ratio of Max 3-MADF:AADF is average of last 5 years' ratio.

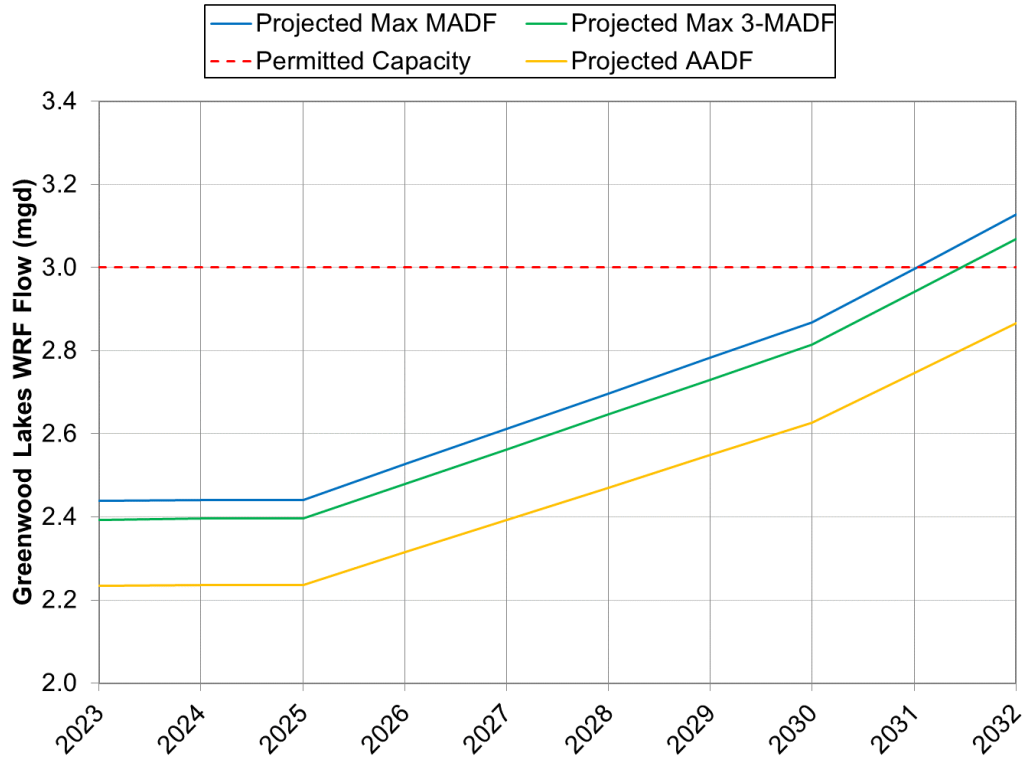


Figure 15 Greenwood Lakes WRF Max MADF and Max 3-MADF Projections through 2032

Section 4

SUMMARY AND CONCLUSIONS

4.1 General

Based on the analysis of historical and projected flow and population, GLWRF will not reach its capacity of 3.0 mgd AADF within the next 10 years (2032), as shown in Figure 15. With the conservative projections and estimating used in this CAR, the actual population growth and flows should continue to be monitored, and future CARs should re-evaluate the projections in subsequent years to determine if and when capacity might be reached.

In terms of treatment efficacy, water quality concentrations have been operating within design parameters and permitting limits and is not expected to show exceedance in the future.

Appendix A

GREENWOOD LAKES WRF DOMESTIC WASTEWATER FACILITY PERMIT FLA011086



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

NOTICE OF PERMIT ISSUANCE

Sent via email: grudolph@seminolecountyfl.gov

Seminole County Environmental Services
500 W Lake Mary Blvd
Sanford FL 32773

ATTENTION Gary Rudolph
Utilities Manager

Seminole County - DW
SCES/Greenwood Lakes WRF

Enclosed is Permit Number FLA011086-009 to operate a domestic wastewater facility issued under Section(s) 403.087 and 403.0885 of the Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the Department permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

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

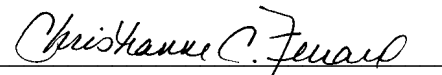
Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

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

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

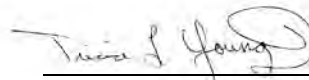
Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Christianne C. Ferraro, P.E.
Program Administrator
Water Resource Management
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803-3767
Phone: (407) 897-4100

Filed, on this date, pursuant to Section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

November 7, 2013

Date

CCF/crl/cs/ply

Enclosures: Permit, DMR, Pathogen Monitoring, SOB

Copies furnished to:

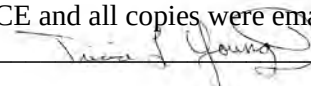
David Smicherko, DEP (via email)

Anil Desai, DEP (via email)

Shabbir Rizvi, DEP (via email)

Terrance M. McCue, Ph.D, P.E. (sent via email: tmccue@seminolecountyfl.gov)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were emailed before close of business on November 7, 2013 to the listed persons, by .



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

RICK SCOTT
GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:

Seminole County Environmental Services

RESPONSIBLE OFFICIAL:

Gary Lee Rudolph
500 West Lake Mary Boulevard
Sanford, Florida 32773-7441
(407) 665-2020

PERMIT NUMBER: FLA011086

FILE NUMBER: FLA011086-009-DW1P

EFFECTIVE DATE: November 7, 2013

EXPIRATION DATE: November 3, 2023

FACILITY:

SCES/Greenwood Lakes WRF
701 Green Way Blvd
Lake Mary, FL 32746-3754
Seminole County
Latitude: 28°44' 3.23" N Longitude: 81°20' 43.05" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

WASTEWATER TREATMENT:

An existing 3.0 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity wastewater treatment facility. The facility consists of a Carrousel (oxidation ditch) activated sludge facility with influent automatic/manual screening grit removal, flow equalization, chemical feed facilities, secondary clarification, upflow deep bed granular media filters, chlorination facilities, chlorine contact chambers, and two 1.75 million gallon reclaimed water storage tanks. Residuals are transferred to aerated holding tanks followed by dewatering and sent to a DEP approved Biosolids Treatment Facility (BTF) or disposed of in a landfill. A new Sequential Facultative Digestion (SFD) process will also be used as part of the biosolids system.

REUSE OR DISPOSAL:

Land Application R-001: An existing 1.8 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of Greenwood Lakes RIBs 1-9 having a capacity of 1.8 MGD located approximately at latitude 28°44' 11" N, longitude 81°22' 2" W. The RIBs have berm irrigation as needed. These RIBs also receive flow from the SCES/Yankee Lake WWTF.

Land Application R-002: An existing 3.0 MGD annual average daily flow permitted capacity slow-rate public access system. R-002 is a reuse system which consists of irrigation within the existing reuse service area as shown on the attached map

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 22 of this permit.

PERMITTEE: Seminole County Environmental Services
 FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
 EXPIRATION DATE: November 3, 2023

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Reuse and Land Application Systems

- During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Monitoring	Sample Type	Monitoring Site Number	Notes
Flow (RIBs)	MGD	Max Max	1.8 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-2	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Coliform, Fecal	#/100mL	Max Max Max	200 200 800	Monthly Geometric Mean Annual Average Single Sample	Weekly	Grab	EFA-1	See I.A.5
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-1	See I.A.3
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous	Meter	EFA-1	See I.A.6 and I.A.3
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Weekly	24-hr FPC	EFA-1	
Nitrogen, Total	mg/L	Max Max	3.0 Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-1	

PERMITTEE: Seminole County Environmental Services
FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
EXPIRATION DATE: November 3, 2023

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

Monitoring Site Number	Description of Monitoring Site
FLW-2	Flow meter in discharge line from final chlorine contact chamber to RIBs/Reuse System Storage- totals based on valve positions
EFA-1	Discharge from chlorine contact chamber

3. Hourly measurement of pH and total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2]*
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. *[62-601.200(17) and .500(6)]*
5. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report. *[62-600.440(4)(c)]*
6. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. *[62-610.510, 62-600.440(4)(b) and (5)(b)]*
7. Nitrate nitrogen (NO₃) concentration in the water discharged to the land application system shall not exceed 12.0 mg/L or as required to comply with Rule 62-610.510, F.A.C. *[62-610.510]*
8. Annual average limit for Total Nitrogen is in accordance with the Wekiva Wastewater Management Rule. *[62-600.550]*

PERMITTEE: Seminole County Environmental Services
 FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
 EXPIRATION DATE: November 3, 2023

9. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-002. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Public Access Reuse)	MGD	Max Max	3.0 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-3	See I.A.12
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/Week	Calculated	EFA-1	See I.A.13
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-1	See I.A.11
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-1	See I.A.14 and I.A.17
Turbidity	NTU	Max	Report	Single Sample	Continuous	Meter	EFA-1	See I.A.15 and I.A.17
Giardia	cysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.A.18
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.A.18
Nitrogen, Total	mg/L	Max Max	10.0 Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-1	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Weekly	24-hr FPC	EFA-1	

PERMITTEE: Seminole County Environmental Services
FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
EXPIRATION DATE: November 3, 2023

10. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.A.9. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-3	Flow meter to public access irrigation system
EFA-1	Discharge from chlorine contact chamber
EFB-1	After filtration and prior to chlorination

11. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2]*
12. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. *[62-601.200(17) and .500(6)]*
13. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). *[62-600.440(5)(f)]*
14. The minimum total chlorine residual shall be limited as described in the approved operating protocol, such that the permit limitation for fecal coliform bacteria will be achieved. In no case shall the total chlorine residual be less than 1.0 mg/L. *[62-600.440(5)(b); 62-610.460(2); and 62-610.463(2)]*
15. The maximum turbidity shall be limited as described in the approved operating protocol, such that the permit limitations for total suspended solids and fecal coliforms will be achieved. *[62-610.463(2)]*
16. The treatment facilities shall be operated in accordance with all approved operating protocols. Only reclaimed water that meets the criteria established in the approved operating protocol(s) may be released to system storage or to the reuse system. Reclaimed water that fails to meet the criteria in the approved operating protocol(s) shall be directed to the following permitted alternate discharge system: R-001. *[62-610.320(6) and 62-610.463(2)]*
17. Instruments for continuous on-line monitoring of total residual chlorine and turbidity shall be equipped with an automated data logging or recording device. *[62-610.463(2)]*
18. Intervals between sampling for Giardia and Cryptosporidium shall not exceed two years. *[62-610.463(4)]*
19. The annual average limit for Total Nitrogen is in accordance with the Wekiva Wastewater Management Rule. *[62-600.550]*
20. Monitoring for total phosphorus (TP) is required as allowed by Rule 62-601.300(6), FAC, to evaluate impacts of reclaimed water to ground and surface waters in a nutrient impaired watershed basin. *[62-601.300(6)]*

PERMITTEE: Seminole County Environmental Services
 FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
 EXPIRATION DATE: November 3, 2023

B. Other Limitations and Monitoring and Reporting Requirements

- During the period beginning on the effective date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.8.:

			Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total through plant)	MGD	Max Max Max	3.0 Report Report	Annual Average Monthly Average Quarterly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.B.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	Weekly	24-hr FPC	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	Weekly	24-hr FPC	INF-1	See I.B.3

PERMITTEE: Seminole County Environmental Services
FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
EXPIRATION DATE: November 3, 2023

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

Monitoring Site Number	Description of Monitoring Site
FLW-1	STP master flow meter after influent lift station
CAL-1	Calculated utilizing FLW-1
INF-1	Raw influent discharged to headworks screening area

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-601.200(17) and .500(6)]
5. Sampling results for giardia and cryptosporidium shall be reported on DEP Form 62-610.300(4)(a)4, Pathogen Monitoring, which is attached to this permit. This form shall be submitted to the Department's Central District Office and to DEP's Reuse Coordinator in Tallahassee. [62-610.300(4)(a)]
6. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
 - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the above-referenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

7. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5)]
8. Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit,

PERMITTEE: Seminole County Environmental Services
FACILITY: SCES/Greenwood Lakes WRF

PERMIT NUMBER: FLA011086
EXPIRATION DATE: November 3, 2023

the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Mail or Electronically Submit by
Monthly or Toxicity	first day of month - last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Central District Office at the address specified in Permit Condition I.B.13. by the twenty-eighth (28th) of the month following the month of operation.

If submitting electronic DMR forms, the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms.

[62-620.610(18)][62-601.300(1),(2), and (3)]

9. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, odor, and corrosivity). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by June 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. *[62-601.300(4)][62-601.500(3)][62-610.300(4)]*
10. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. *[62-610.870(3)]*
11. Operating protocol(s) shall be reviewed and updated periodically to ensure continuous compliance with the minimum treatment and disinfection requirements. Updated operating protocols shall be submitted to the Department's Central District Office for review and approval upon revision of the operating protocol(s) and with each permit application. *[62-610.320(6)][62-610.463(2)]*
12. The permittee shall maintain an inventory of storage systems. The inventory shall be submitted to the Department's Central District Office at least 30 days before reclaimed water will be introduced into any new storage system. The inventory of storage systems shall be attached to the annual submittal of the Annual Reuse Report. *[62-610.464(5)]*
13. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Central District Office at the address specified below:

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Florida Department of Environmental Protection Central District Office
3319 Maguire Blvd
Suite 232
Orlando, Florida 32803-3767

Phone Number - (407)897-4100

FAX Number - (850)412-0467

(All FAX copies and e-mails shall be followed by original copies.)

[62-620.305]

14. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

II. BIOSOLIDS MANAGEMENT REQUIREMENTS

1. Biosolids generated by this facility may be transferred to Seminole County Landfill or other Class I solid waste landfill. Transferring biosolids to a biosolids treatment facility would not require a permit modification. However, use of a biosolids treatment facility requires submittal of a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the biosolids. [62-620.320(6), 62-640.880(1)]
2. The permittee shall monitor and keep records of the quantities of biosolids generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled. These records shall be kept for a minimum of five years. [62-640.650(4)(a)]
3. Biosolids quantities shall be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report in accordance with Condition I.B.8.

Parameter	Units	Max/ Min	Biosolids Limitations		Monitoring Requirements		
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number
Biosolids Quantity (Transferred)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-1
Biosolids Quantity (Landfilled)	ton (d)	Max	Report	Monthly Total	Monthly	Calculated	RMP-1

[62-640.650(5)(a)1]

4. Biosolids quantities shall be calculated as listed in Permit Condition II.3 and as described below:

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	Biosolids leaving the facility

5. The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
6. Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
7. Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]

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8. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]
9. The permittee shall not be held responsible for treatment and management violations that occur after its biosolids have been accepted by a permitted biosolids treatment facility with which the source facility has an agreement in accordance with subsection 62-640.880(1)(c), F.A.C., for further treatment, management, or disposal. [62-640.880(1)(b)]
10. The permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

Source Facility	Biosolids Treatment Facility or Treatment Facility
1. Date and time shipped	1. Date and time received
2. Amount of biosolids shipped	2. Amount of biosolids received
3. Degree of treatment (if applicable)	3. Name and ID number of source facility
4. Name and ID Number of treatment facility	4. Signature of hauler
5. Signature of responsible party at source facility	5. Signature of responsible party at treatment facility
6. Signature of hauler and name of hauling firm	

A copy of the source facility hauling records for each shipment shall be provided upon delivery of the biosolids to the biosolids treatment facility or treatment facility. The treatment facility permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of biosolids leaving the source facility and arriving at the biosolids treatment facility or treatment facility.

[62-640.880(4)]

11. If the permittee intends to accept biosolids from other facilities, a permit revision is required pursuant to paragraph 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]

III. GROUND WATER REQUIREMENTS

A. Construction Requirements

1. All new ground water monitoring wells (only MWC-13, MWB-12 already existing) shall be installed within 90 days of the Department's issuance of this permit. [62-520.600(3) and 62-620.320(6)]
2. The permittee shall give at least 72-hours notice to the Department's Central District Ground Water Section, prior to the installation of the new monitoring wells detailed below. [62-520.600(6)(h)]
3. Prior to construction of the new ground water monitoring well, a soil boring shall be made at the monitoring well location in order to establish the well depth and screen interval. [62-520.600(6)(g)]
4. The monitoring wells shall be constructed per the proposed well construction drawings as approved by the Department. [62-520.600(3) and 62-620.320(6)]
5. Within 30 days after installation of the new monitoring well, the permittee shall submit to the Department's Central District Ground Water Section detailed information on the well's location, soil boring log, and construction details on the attached DEP Form 62-520.900(3), Monitor Well Completion Report. [62-520.600(6)(j) and 62-520.900(3)]
6. After completing the well installation work, the approved existing background monitor well MWB-12 shall be sampled for all Primary and Secondary Drinking Water Parameters (excluding asbestos, acrylamide, dioxin, butachlor, epichlorohydrin, pesticides and PCBs) prior to the effluent discharge at the Sylvan Lake Park reuse site and report the analytical results to the Groundwater Section, Central District office. This sampling is being requested to characterize the background water quality at the new public access reuse site. [62-520.500(5)(a)2].

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B. Operational Requirements

1. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone 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 surficial aquifer. [62520.200(27)][62.520.4]
2. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
3. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600, F.A.C. [62-520.600][62-610.463]
4. The following monitoring wells shall be sampled in accordance with the monitoring frequencies specified in Permit Condition III.5. for Reuse Systems R-001 and R-002. Quarterly sampling must be reasonably spaced to be representative of potentially changing conditions.

Facility Well Name	Permit Builder ID	WAFR #	GMS#	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
Ponds (R-001)							
MW-6B	MWC-6	7073	3059A14776	36	Surficial	Compliance	Existing
MW-7B	MWC-7	7071	3059A14778	35.5	Surficial	Compliance	Existing
MW-8B	MWC-8B	7069	3059A14780	38	Surficial	Compliance	Existing
MW-9B	MWC-9	7067	3059A14782	44	Surficial	Compliance	Existing
MW-10S	MWC-10	7077	3059A13312	40.8	Surficial	Compliance	Existing
MW-11W	MWC-11	7078	3059A13311	41	Surficial	Compliance	Existing
Sylvan Lake Park							
MWB-12	MWB-12	133962	-	-	Surficial	Background	New
MWC-13	MWC-13	133963	-	-	Surficial	Compliance	New

MWC = Compliance, MWB= Background

[62-520.600][62-610.463]

5. The following parameters shall be analyzed for each of the monitoring well(s) identified in Permit Condition(s) III. 4:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to feet, NGVD	Report	FEET	In-situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Quarterly
Chloride (as Cl)	250	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100ML	Grab	Quarterly
pH	6.5 to 8.5	SU	In-situ	Quarterly
Turbidity	Report	NTU	Grab	Quarterly

[62-522.600(11)(b)] [62-601.300(3), 62-601.700, and Figure 3 of 62-601][62-601.300(6)] [62-520.300(9)]

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6. If the concentration for any constituent listed in Permit Condition III. 5. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard. [62-520.420(2)]
7. In accordance with Part D of Form 62-620.910(10), water levels shall be recorded before evacuating wells for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NGVD allowable) at a precision of plus or minus 0.1 foot. [62-520.600(11)(C)] [62-610.463(3)(a)]
8. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-601.700(5)] [62-620.610(8)].
9. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District's Ground Water Section as being more representative of ground water conditions. [62-520.310(9)]
10. Ground water monitoring parameters shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(5)]
11. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10). A completed Certification Page shall accompany each quarter of monitoring data. For reuse or land application projects, results shall be submitted with the DMR for each month listed in the following schedule. The submitted results shall be for each year during the period of operation allowed by this permit in accordance with Permit Condition I.B.8. [62-520.600(10) and (11)(b), [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18)]

SAMPLE PERIOD	REPORT DUE DATE
January - March	April 28
April - June	July 28
July - September	October 28
October - December	January 28

12. If any monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department's Central District, Ground Water Section immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the Department's Central District, Ground Water Section. [62-520.600][62-4.070(3)]
13. The Permittee shall provide verbal notice to the Department's Central District, Ground Water Section as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The Permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District, Ground Water Section in a written report within 7 days of the sinkhole discovery. [62-4.070(3)]

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

A. Part III Public Access System(s)

1. Use of reclaimed water is authorized within the general service area identified in the attached map. The following uses of reclaimed water are authorized within this general service area:

Athletic Complexes and Parks
Golf Courses
Other Landscape Irrigation
Residential Developments

[62-620.630(10)(a)]

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2. This reuse system includes the following major user(s) of reclaimed water (i.e., using 0.1 MGD or more) and general service area(s):

Site Number	User Name	User Type	Capacity(MGD)	Acreage
PAA-1	Lake Mary Commercial Park and Extended Service Area	Residential Developments	1.7	300
PAA-2	Northwest Reuse Service Area	Residential Developments	1.3	224
Total			3	524

[62-610.800(5)][62-620.630(10)(b)]

3. New major users of reclaimed water (i.e., using 0.1 MGD or more) may be added to the reuse system using the general permit described in Rule 62-610.890, F.A.C., if the requirements in this rule are complied with. Application for use of this general permit shall be made using Form 62-610.300(4)(a)1. [62-610.890]
4. Cross-connections to the potable water system are prohibited. [62-610.469(7)]
5. A cross-connection control program shall be implemented and/or remain in effect within the areas where reclaimed water will be provided for use and shall be in compliance with the Rule 62-555.360, F.A.C. [62-610.469(7)]
6. The permittee shall conduct inspections within the reclaimed water service area to verify proper connections, to minimize illegal cross-connections, and to verify both the proper use of reclaimed water and that the proper backflow prevention assemblies or devices have been installed and tested. Inspections are required when a customer first connects to the reuse distribution system. Subsequent inspections are required as specified in the cross-connection control and inspection program. [62-610.469(7)(h)]
7. If an actual or potential (e.g. no dual check device on residential connections served by a reuse system) cross-connection between the potable and reclaimed water systems is discovered, the permittee shall:
- Immediately discontinue potable water and/or reclaimed water service to the affected area if an actual cross-connection is discovered.
 - If the potable water system is contaminated, clear the potable water lines.
 - Eliminate the cross-connection and install a backflow prevention device as required by the Rule 62-555.360.F.A.C.
 - Test the affected area for other possible cross-connections.
 - Within 24 hours, notify the Department's Central District Office's domestic wastewater and drinking water programs.
 - Within 5 days of discovery of an actual or potential cross-connection, submit a written report to the Department's Central District Office detailing: a description of the cross-connection, how the cross-connection was discovered, the exact date and time of discovery, approximate time that the cross-connection existed, the location, the cause, steps taken to eliminate the cross-connection, whether reclaimed water was consumed, and reports of possible illness, whether the drinking water system was contaminated and the steps taken to clear the drinking water system, when the cross-connection was eliminated, plan of action for testing for other possible cross-connections in the area, and an evaluation of the cross-connection control and inspection program to ensure that future cross-connections do not occur.
- [62-555.350(3) and 62-555.360][62-620.610(20)]
8. Maximum obtainable separation of reclaimed water lines and potable water lines shall be provided and the minimum separation distances specified in Rule 62-610.469(7), F.A.C., shall be provided. Reuse facilities shall be color coded or marked. Underground piping which is not manufactured of metal or concrete shall be color coded using Pantone Purple 522C using light stable colorants. Underground metal and concrete pipe shall be color coded or marked using purple as the predominant color. [62-610.469(7)]

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9. In constructing reclaimed water distribution piping, the permittee shall maintain a 75-foot setback distance from a reclaimed water transmission facility to public water supply wells. No setback distances are required to other potable water supply wells or to any nonpotable water supply wells. *[62-610.471(3)]*
10. A setback distance of 75 feet shall be maintained between the edge of the wetted area and potable water supply wells, unless the utility adopts and enforces an ordinance prohibiting potable water supply wells within the reuse service area. No setback distances are required to any nonpotable water supply well, to any surface water, to any developed areas, or to any private swimming pools, hot tubs, spas, saunas, picnic tables, barbecue pits, or barbecue grills. *[62-610.471(1), (2), (5), and (7)]*
11. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. *[62-610.469(4)]*
12. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet from outdoor public eating, drinking, or bathing facilities. *[62-610.471(6)]*
13. A setback distance of 100 feet shall be maintained from indoor aesthetic features using reclaimed water to adjacent indoor public eating and drinking facilities. *[62-610.471(8)]*
14. The public shall be notified of the use of reclaimed water. This shall be accomplished by posting of advisory signs in areas where reuse is practiced, notes on scorecards, or other methods. *[62-610.468(2)]*
15. All new advisory signs and labels on vaults, service boxes, or compartments that house hose bibbs along with all labels on hose bibbs, valves, and outlets shall bear the words "do not drink" and "no beber" along with the equivalent standard international symbol. In addition to the words "do not drink" and "no beber," advisory signs posted at storage ponds and decorative water features shall also bear the words "do not swim" and "no nadar" along with the equivalent standard international symbols. Existing advisory signs and labels shall be retrofitted, modified, or replaced in order to comply with the revised wording requirements. For existing advisory signs and labels this retrofit, modification, or replacement shall occur within 365 days after the date of this permit. For labels on existing vaults, service boxes, or compartments housing hose bibbs this retrofit, modification, or replacement shall occur within 730 days after the date of this permit. *[62-610.468, 62-610.469]*
16. The permittee shall ensure that users of reclaimed water are informed about the origin, nature, and characteristics of reclaimed water; the manner in which reclaimed water can be safely used; and limitations on the use of reclaimed water. Notification is required at the time of initial connection to the reclaimed water distribution system and annually after the reuse system is placed into operation. A description of on-going public notification activities shall be included in the Annual Reuse Report. *[62-610.468(6)]*
17. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.414(8)]*
18. Overflows from emergency discharge facilities on storage ponds shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-610.800(9)]*

B. Part IV Rapid Infiltration Basins

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518]*
2. The maximum annual average loading rate to the Greenwood Lakes RIBs shall be limited to 1.4 inches per day (as applied to the entire bottom area). *[62-610.523(3)]*
3. The Greenwood Lakes RIBs normally shall be loaded for 7 days and shall be rested for at least 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4)]*

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4. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. [62-610.523(6) and (7)]
5. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.514 and 62-610.414]
6. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as abnormal events in accordance with Permit Condition IX.20. [62-610.800(9)]

V. OPERATION AND MAINTENANCE REQUIREMENTS

A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of an operator or operators certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category I, Class A facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 16 hours/day for 7 days/week. The lead/chief operator must be a Class A operator, or higher.

[62-620.630(3)][62-699.310] [62-610.462]

2. The lead/chief operator shall be employed at the plant full time. "Full time" shall mean at least 4 days per week, working a minimum of 35 hours per week, including leave time. A licensed operator shall be on-site and in charge of each required shift for periods of required staffing time when the lead/chief operator is not on-site. An operator meeting the lead/chief operator class for the treatment plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(10), (6) and (1)]
3. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(1)]

B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

1. Submit an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C., five years from the date of issuance of this permit. [62-600.405(5)]
2. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
3. 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)]

C. Recordkeeping Requirements

1. 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, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;

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- 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 any required record drawings;
- h. Copies of the licenses of the current certified operators;
- 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 license 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, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. 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; and
- j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.

[62-620.350, 62-602.650, 62-640.650(4)]

VI. SCHEDULES

1. The following improvement actions shall be completed according to the following schedule:

Submit an updated capacity analysis report, per permit condition V.B.1.	Within 5 years or permit issuance
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2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or
 - b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

[62-620.335(1) - (4)]

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility's pretreatment program requirements are included in the SCES Northwest Regional (Yankee Lake) WWTF permit issued by the Department under Permit Number FL0042625.
2. As required by Rules 62-625.600(8) and (12), F.A.C., the permittee shall submit DMRs for Monitoring Site Numbers PRT-I, PRT-E, and PRT-R to the SCES Northwest Regional (Yankee Lake) WWTF, FL0042625 for inclusion in the annual report. [62-625.600(8)]
3. Samples for Monitoring Site Numbers PRT-I, PRT-E, and PRT-R shall be taken at the monitoring site locations described below:

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Monitoring Location Site Number	Description of Monitoring Location
PRT-I	Influent
PRT-E	Effluent
PRT-R	Biosolids

VIII. OTHER SPECIFIC CONDITIONS

1. The permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. *[62-610.800(10)]*
2. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8) and 62-640.400(6)]*
3. 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, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. 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 the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
 - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.*[62-604.130(5)]*
6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1) and 62-600.400(2)(b)]*
7. 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. *[62-701.300(1)(a)]*
8. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*

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9. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. [62-620.320(6)]

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)]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]
3. As provided in subsection 403.087(7), 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)]
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)]
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)]
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)]
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)]
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)]
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;

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- 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)]

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, F.S., or Rule 62-620.302, F.A.C. 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. 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)]
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12)]
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)]
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)]
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15)]
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., 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)]
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)]

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18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-601, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
- Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - 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.
 - Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
 - Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
 - Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

[62-620.610(18)]

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)]
20. The permittee shall report to the Department's Central District Office 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.
- The following shall be included as information which must be reported within 24 hours under this condition:
 - Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - Any unauthorized discharge to surface or ground waters.
 - Oral reports as required by this subsection shall be provided as follows:
 - For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - Name, address, and telephone number of person reporting;
 - Name, address, and telephone number of permittee or responsible person for the discharge;
 - Date and time of the discharge and status of discharge (ongoing or ceased);

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- (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Central District Office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. 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's Central District Office shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18. or IX.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)]

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
- c. 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.
- d. 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.b.(1) through (3) of this permit.
- e. 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.b. through d. of this permit.

[62-620.610(22)]

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
 - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.

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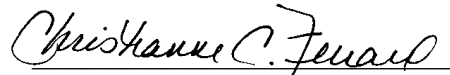
PERMIT NUMBER: FLA011086
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- (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A 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.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. 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)]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Christianne C. Ferraro, P.E.
Program Administrator
Water Resource Management

Date: November 5, 2013

Attachment(s):
Discharge Monitoring Report
"Pathogen Monitoring" Form
Map of the General Reuse Service Area

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME:	Seminole County Environmental Services	PERMIT NUMBER:	FLA011086-009-DW1P	Expiration Date:	November 3, 2023
MAILING ADDRESS:	500 West Lake Mary Boulevard Sanford, Florida 32773-7441	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	SCES/Greenwood Lakes WRF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	701 Green Way Blvd Lake Mary, FL 32746-3754	MONITORING GROUP DESCRIPTION:	rapid infiltration basins, with Influent		
		RE-SUBMITTED DMR:	☐		
		NO DISCHARGE FROM SITE:	☐		
COUNTY:	Seminole	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Central District				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (RIBs)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-2	Permit Requirement		1.8 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (RIBs)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-2	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		Weekly	24-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP R-001

PERMIT NUMBER: FLA011086-009-DW1P

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon. Site No. EFA-1	Permit Requirement				200 (An.Avg.)			#/100mL		Weekly	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement				200 (Mo.Geo.Mn.)	800 (Max.)		#/100mL		Weekly	Grab
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)		s.u.		Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)			mg/L		Continuous	Meter
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement					12.0 (Max.)		mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement				3.0 (An.Avg.)			mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)		mg/L		Weekly	24-hr FPC
Flow (Total through plant)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement		3.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Total through plant)	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-1	Permit Requirement	Report (Qt.Avg.)	Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Percent Capacity, (TMADF/ Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 P Mon. Site No. CAL-1	Permit Requirement					Report (Mo.Avg.)		percent		Monthly	Calculated

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP

R-001

PERMIT NUMBER: FLA011086-009-DW1P

NUMBER:

MONITORING PERIOD

From:

To:

[illegible]

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Seminole County Environmental Services
MAILING ADDRESS: 500 West Lake Mary Boulevard
Sanford, Florida 32773-7441

PERMIT NUMBER: FLA011086-009-DW1P

FACILITY: SCES/Greenwood Lakes WRF
LOCATION: 701 Green Way Blvd
Lake Mary, FL 32746-3754

LIMIT: Final
CLASS SIZE: N/A
MONITORING GROUP NUMBER: R-002
MONITORING GROUP DESCRIPTION: Public Access Reuse
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Domestic

COUNTY: Seminole
OFFICE: Central District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Public Access Reuse)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-3	Permit Requirement		3.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (Public Access Reuse)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-3	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-1	Permit Requirement						5.0 (Max.)	mg/L		4 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement						25 (Max.)	#/100mL		4 Days/Week	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP R-002

PERMIT NUMBER: FLA011086-009-DW1P

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 A Mon. Site No. EFA-1	Permit Requirement				75 (Mo.Total)			percent		4 Days/Week	Calculated
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Continuous	Meter
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				1.0 (Min.)			mg/L		Continuous	Meter
Turbidity	Sample Measurement										
PARM Code 00070 B Mon. Site No. EFB-1	Permit Requirement						Report (Max.)	NTU		Continuous	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					10.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)		mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Weekly	24-hr FPC

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: Seminole County Environmental Services
MAILING ADDRESS: 500 West Lake Mary Boulevard
Sanford, Florida 32773-7441

PERMIT NUMBER: FLA011086-009-DW1P

FACILITY: SCES/Greenwood Lakes WRF
LOCATION: 701 Green Way Blvd
Lake Mary, FL 32746-3754

LIMIT: Final
CLASS SIZE: N/A
MONITORING GROUP NUMBER: RMP-Q
MONITORING GROUP DESCRIPTION: Biosolids Quantity

REPORT FREQUENCY: Monthly
PROGRAM: Domestic

COUNTY: Seminole
OFFICE: Central District

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Transferred)	Sample Measurement										
PARM Code B0007 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	ton (d)						Monthly	Calculated
Biosolids Quantity (Landfilled)	Sample Measurement										
PARM Code B0008 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	ton (d)						Monthly	Calculated

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DAILY SAMPLE RESULTS - PART B

Permit Number: FLA011086-009-DW1P

Facility: SCES/Greenwood Lakes WRF

Monitoring Period From: _____ To: _____

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u. (Min.)	pH s.u. (Max.)
Code	80082	50060	74055	00620	00600	00665	00530	00400	00400
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1
1									
2									
3									
4									
5									
6									
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25									
26									
27									
28									
29									
30									
31									
Total									
Mo. Avg.									

PLANT STAFFING:

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

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FLA011086-009-DW1P

From: _____ To: _____

Facility: SCES/Greenwood Lakes WRF

	Solids, Total Suspended mg/L	Turbidity NTU	Flow (Total through plant) MGD	Flow (RIBs) MGD	Flow (Public Access Reuse) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L		
Code	00530	00070	50050	50050	50050	80082	00530		
Mon. Site	EFB-1	EFB-1	FLW-1	FLW-2	FLW-3	INF-1	INF-1		
1									
2									
3									
4									
5									
6									
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29									
30									
31									
Total									
Mo. Avg.									

PLANT STAFFING:

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

DEP Form # 62-522.900(2)
Form Title <u>Ground Water Monitoring Report</u>
Effective Date _____
DEP Application No. _____

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DISCHARGE MONITORING REPORT - PART D

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name SCES/Greenwood Lakes WWTF / Seminole County
Address _____
City _____ Zip _____
Telephone Number () _____
- (2) The GMS Identification Number 3059P02840
- (3) DEP Permit Number FLA011086
- (4) Authorized Representative Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (5) Type of Discharge _____
- (6) Method of Discharge _____

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the 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.

Date: _____

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization _____

Analytical Lab _____ NELAC Certification # _____
NELAC Certification # _____

Lab Name _____

Address _____

Phone Number () _____

10/24/13

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086** **GMS# 3059P02840**

Permit Builder MW ID: **MWC-6**
 Well Type: **Compliance**
 Description: **Well Name MWC-6**
Perc Ponds
WAFR # 7073
GMS# 3059A14776

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

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

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

10/24/13

COMMENTS AND EXPLANATION:

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086 GMS# 3059P02840**

Permit Builder MW ID: **MWC-7**
 Well Type: **Compliance**
 Description: **Well Name MWC-7
 Perc Ponds
 WAFR # 7071
 GMS# 3059A14778**

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13
 COMMENTS AND EXPLANATION:

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086** **GMS# 3059P02840**

Permit Builder MW ID: **MWC-8B**
 Well Type: **Compliance**
 Description: **Well Name MWC-8B**
Perc Ponds
WAFR # 7069
GMS# 3059A14780

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13

COMMENTS AND EXPLANATION:

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086 GMS# 3059P02840**

Permit Builder MW ID: **MWC-9**
 Well Type: **Compliance**
 Description: **Well Name MWC-9B**
Perc Ponds
WAFR # 7067
GMS# 3059A14782

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13
 COMMENTS AND EXPLANATION:

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086** **GMS# 3059P02840**

Permit Builder MW ID: MWC-10
 Well Type: Compliance
 Description: **Well Name MWC-10S**
Perc Ponds
WAFR # 7077
 GMS# 3059A13312

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13
 COMMENTS AND EXPLANATION:

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086** **GMS# 3059P02840**

Permit Builder MW ID: MWC-11
 Well Type: Compliance
 Description: **Well Name MWC-11W**
 Perc Ponds
 WAFR # 7078
 GMS# 3059A13311

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13
 COMMENTS AND EXPLANATION:

GROUND WATER MONITORING WELL REPORT - PART D

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086 GMS# 3059P02840**

Permit Builder MW ID: MWB-12
 Well Type: Background
 Description: **Well Name MWB-12**
Sylvan Lake Park
WAFR # 133962

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	Report		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	Report		Quarterly			
Chloride (as Cl)	00940		mg/L	Report		Quarterly			
Coliform, Fecal	74055		#/100/ml	Report		Quarterly			
pH	00400		SU	Report		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13

COMMENTS AND EXPLANATION: This new monitor well has been added to the public access reuse site Sylvan Lake Park.

GROUND WATER MONITORING WELL REPORT - PART D

County: **Seminole County**
 Facility Name: **SCES/Greenwood Lakes WWTF**
 Permit Number: **FLA011086** **GMS# 3059P02840**

Permit Builder MW ID: **MWC-13**
 Well Type: **Compliance**
 Description: **Well Name MWC-13**
Sylvan Lake Park
WAFR # 133963

Monitoring Period From: _____ To: _____
 Was the well purged before sampling? ☐ Yes ☐ No

Date Sample Obtained: _____
 Time Sample Obtained: _____

Parameter	Permit Builder PARM Code	Sample Measurement (Analysis Results)	Units	Compliance Limit	Detection Limits	Monitoring Frequency	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to Feet, NGVD	82545		Feet	Report		Quarterly			
Nitrate, (as N)	00620		mg/L	10		Quarterly			
Solids, Total Dissolved (TDS)	70295		mg/L	500		Quarterly			
Chloride (as Cl)	00940		mg/L	250		Quarterly			
Coliform, Fecal	74055		#/100/ml	4		Quarterly			
pH	00400		SU	6.5-8.5		Quarterly			
Turbidity, Lab - Nephelometric	00070		NTU	Report		Quarterly			

10/24/13

COMMENTS AND EXPLANATION: This new monitor well has been added to the public access reuse site Sylvan Lake Park.

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

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. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

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

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

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. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period 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.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

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.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The 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 DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Domestic Wastewater Section, MS 3540, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Seminole County Environmental Services
MAILING ADDRESS: 500 West Lake Mary Boulevard
Sanford, Florida 32773-7441

PERMIT NUMBER: FLA011086-009-DW1P

FACILITY: SCES/Greenwood Lakes WRF
LOCATION: 701 Green Way Blvd
Lake Mary, FL 32746-3754

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

Final
N/A
RWS-A
REPORT FREQUENCY: Annually
PROGRAM: Domestic

Annual Reclaimed Water or Effluent Analysis

COUNTY: Seminole
OFFICE: Central District

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Barium, Total Recoverable	Sample Measurement										
PARM Code 01009 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Chromium, Total Recoverable	Sample Measurement										
PARM Code 01118 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Total Recoverable	Sample Measurement										
PARM Code 78248 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Fluoride, Total (as F)	Sample Measurement										
PARM Code 00951 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Nitrogen, Nitrite, Total (as N)	Sample Measurement										
PARM Code 00615 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Sodium, Total Recoverable	Sample Measurement										
PARM Code 00923 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
1,1-dichloroethylene	Sample Measurement										
PARM Code 34501 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,1,1-trichloroethane	Sample Measurement										
PARM Code 34506 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,1,2-trichloroethane	Sample Measurement										
PARM Code 34511 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,2-dichloroethane	Sample Measurement										
PARM Code 32103 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,2-dichloropropane	Sample Measurement										
PARM Code 34541 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,2,4-trichlorobenzene	Sample Measurement										
PARM Code 34551 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Benzene	Sample Measurement										
PARM Code 34030 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Carbon tetrachloride	Sample Measurement										
PARM Code 32102 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Cis-1,2-dichloroethene	Sample Measurement										
PARM Code 81686 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)	Sample Measurement										
PARM Code 03821 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Ethylbenzene	Sample Measurement										
PARM Code 34371 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Monochlorobenzene	Sample Measurement										
PARM Code 34031 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,2-dichlorobenzene	Sample Measurement										
PARM Code 34536 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,4-dichlorobenzene	Sample Measurement										
PARM Code 34571 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Styrene, Total	Sample Measurement										
PARM Code 77128 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Tetrachloroethylene	Sample Measurement										
PARM Code 34475 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Toluene	Sample Measurement										
PARM Code 34010 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
1,2-trans-dichloroethylene	Sample Measurement										
PARM Code 34546 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Trichloroethylene	Sample Measurement										
PARM Code 39180 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride	Sample Measurement										
PARM Code 39175 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Xylenes	Sample Measurement										
PARM Code 81551 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin	Sample Measurement										
PARM Code 34675 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
2,4-dichlorophenoxyacetic acid	Sample Measurement										
PARM Code 39730 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Silvex	Sample Measurement										
PARM Code 39760 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Alachlor	Sample Measurement										
PARM Code 39161 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Atrazine	Sample Measurement										
PARM Code 39033 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Benzo(a)pyrene	Sample Measurement										
PARM Code 34247 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Carbofuran	Sample Measurement										
PARM Code 81405 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Chlordane (tech mix. and metabolites)	Sample Measurement										
PARM Code 39350 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon	Sample Measurement										
PARM Code 38432 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Bis(2-ethylhexyl)adipate	Sample Measurement										
PARM Code 77903 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate	Sample Measurement										
PARM Code 39100 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Dibromochloropropane (DBCP)	Sample Measurement										
PARM Code 82625 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	Grab
Dinoseb	Sample Measurement										
PARM Code 30191 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Diquat	Sample Measurement										
PARM Code 04443 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Endothall	Sample Measurement										
PARM Code 38926 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Endrin	Sample Measurement										
PARM Code 39390 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Ethylene dibromide (1,2-dibromoethane)	Sample Measurement										
PARM Code 77651 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Glyphosate	Sample Measurement										
PARM Code 79743 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor	Sample Measurement										
PARM Code 39410 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Heptachlor epoxide	Sample Measurement										
PARM Code 39420 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Hexachlorobenzene	Sample Measurement										
PARM Code 39700 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Hexachlorocyclopentadiene	Sample Measurement										
PARM Code 34386 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Gamma BHC (Lindane)	Sample Measurement										
PARM Code 39782 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Methoxychlor	Sample Measurement										
PARM Code 39480 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Oxamyl (vydate)	Sample Measurement										
PARM Code 38865 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Pentachlorophenol	Sample Measurement										
PARM Code 39032 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Picloram	Sample Measurement										
PARM Code 39720 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)	Sample Measurement										
PARM Code 39516 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine	Sample Measurement										
PARM Code 39055 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Toxaphene	Sample Measurement										
PARM Code 39400 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Trihalomethane, Total by summation	Sample Measurement										
PARM Code 82080 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	Grab
Radium 226 + Radium 228, Total	Sample Measurement										
PARM Code 11503 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			pCi/L		Annually	24-hr FPC
Alpha, Gross Particle Activity	Sample Measurement										
PARM Code 80045 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			pCi/L		Annually	24-hr FPC
Aluminum, Total Recoverable	Sample Measurement										
PARM Code 01104 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Manganese, Total Recoverable	Sample Measurement										
PARM Code 11123 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

RWS-A

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
Sulfate, Total	Sample Measurement										
PARM Code 00945 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			ug/L		Annually	24-hr FPC
pH	Sample Measurement										
PARM Code 00400 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			s.u.		Annually	Grab
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC
Foaming Agents	Sample Measurement										
PARM Code 01288 P Mon. Site No. RWS-A	Permit Requirement				Report (Max.)			mg/L		Annually	24-hr FPC

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Domestic Wastewater Section, MS 3540, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Seminole County Environmental Services
MAILING ADDRESS: 500 West Lake Mary Boulevard
Sanford, Florida 32773-7441

PERMIT NUMBER: FLA011086-009-DW1P

FACILITY: SCES/Greenwood Lakes WRF
LOCATION: 701 Green Way Blvd
Lake Mary, FL 32746-3754

LIMIT: Final
CLASS SIZE: N/A
MONITORING GROUP NUMBER: PRT-I
MONITORING GROUP DESCRIPTION: Influent Pretreatment
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
PROGRAM: Domestic

COUNTY: Seminole
OFFICE: Central District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement										
PARM Code 00400 G Mon. Site No. PRT-I	Permit Requirement				Report (Min.)		Report (Max.)	s.u.		Annually	Grab
Oil and Grease, hexane extr method	Sample Measurement										
PARM Code 00552 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)		Report (Max.)	mg/L		Annually	Grab
Benzene	Sample Measurement										
PARM Code 34030 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab
Bromoform	Sample Measurement										
PARM Code 32104 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab
Carbon tetrachloride	Sample Measurement										
PARM Code 32102 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab
Chlorobenzene	Sample Measurement										
PARM Code 34301 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab

*FOR THOSE PARAMETERS THAT ARE SAMPLED ANNUALLY, THE MAXIMUM AND AVERAGE CONCENTRATIONS ARE EQUIVALENT AND SHALL BE REPORTED AS SUCH ON THE DMR.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Chlorodibromomethane	Sample Measurement										
PARM Code 34306 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroethane	Sample Measurement										
PARM Code 85811 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
2-chloroethyl vinyl ether (mixed)	Sample Measurement										
PARM Code 34576 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroform	Sample Measurement										
PARM Code 32106 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Dichlorobromomethane	Sample Measurement										
PARM Code 32101 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichlorobenzene	Sample Measurement										
PARM Code 34536 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichlorobenzene	Sample Measurement										
PARM Code 34566 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,4-dichlorobenzene	Sample Measurement										
PARM Code 34571 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1-dichloroethane	Sample Measurement										
PARM Code 34496 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloroethane	Sample Measurement										
PARM Code 32103 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,1-dichloroethylene	Sample Measurement										
PARM Code 34501 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloropropane	Sample Measurement										
PARM Code 34541 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichloropropene	Sample Measurement										
PARM Code 77163 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Ethylbenzene	Sample Measurement										
PARM Code 34371 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methyl bromide	Sample Measurement										
PARM Code 34413 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methyl chloride	Sample Measurement										
PARM Code 34418 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Methylene chloride	Sample Measurement										
PARM Code 34423 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1,2,2-tetrachloroethane	Sample Measurement										
PARM Code 34516 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Tetrachloroethylene	Sample Measurement										
PARM Code 34475 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Toluene	Sample Measurement										
PARM Code 34010 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene	Sample Measurement										
PARM Code 34546 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,1,1-trichloroethane	Sample Measurement										
PARM Code 34506 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,1,2-trichloroethane	Sample Measurement										
PARM Code 34511 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Trichloroethylene	Sample Measurement										
PARM Code 39180 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Vinyl chloride	Sample Measurement										
PARM Code 39175 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
2-chlorophenol	Sample Measurement										
PARM Code 34586 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dichlorophenol	Sample Measurement										
PARM Code 34601 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dimethylphenol	Sample Measurement										
PARM Code 34606 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,6-dinitro-o-cresol	Sample Measurement										
PARM Code 34657 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dinitrophenol	Sample Measurement										
PARM Code 34616 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2-nitrophenol	Sample Measurement										
PARM Code 34591 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4-nitrophenol	Sample Measurement										
PARM Code 34646 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
p-chloro-m-cresol	Sample Measurement										
PARM Code 82627 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Pentachlorophenol	Sample Measurement										
PARM Code 39032 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Phenol, Single Compound	Sample Measurement										
PARM Code 34694 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4,6-trichlorophenol	Sample Measurement										
PARM Code 34621 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Acenaphthene	Sample Measurement										
PARM Code 34205 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Acenaphthylene	Sample Measurement										
PARM Code 34200 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Anthracene	Sample Measurement										
PARM Code 34220 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzidine	Sample Measurement										
PARM Code 39120 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Benzo(a)anthracene	Sample Measurement										
PARM Code 34526 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene	Sample Measurement										
PARM Code 34247 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(b)fluoranthene (3,4-benzo)	Sample Measurement										
PARM Code 79531 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(ghi)perylene	Sample Measurement										
PARM Code 34521 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(k)fluoranthene	Sample Measurement										
PARM Code 34242 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-chloroethoxy) methane	Sample Measurement										
PARM Code 34278 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-chloroethyl) ether	Sample Measurement										
PARM Code 34273 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-chloroisopropyl) ether	Sample Measurement										
PARM Code 34283 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate	Sample Measurement										
PARM Code 39100 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4-bromophenyl phenyl ether	Sample Measurement										
PARM Code 34636 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Butyl benzyl phthalate	Sample Measurement										
PARM Code 34292 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2-chloronaphthalene	Sample Measurement										
PARM Code 34581 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4-chlorophenyl phenyl ether	Sample Measurement										
PARM Code 34641 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Chrysene	Sample Measurement										
PARM Code 34320 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Dibenzo (a,h) anthracene	Sample Measurement										
PARM Code 34556 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
3,3'-dichlorobenzidine	Sample Measurement										
PARM Code 34631 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Diethyl phthalate	Sample Measurement										
PARM Code 34336 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Dimethyl phthalate	Sample Measurement										
PARM Code 34341 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Di-n-butyl phthalate	Sample Measurement										
PARM Code 39110 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dinitrotoluene	Sample Measurement										
PARM Code 34611 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2,6-dinitrotoluene	Sample Measurement										
PARM Code 34626 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Di-n-octyl phthalate	Sample Measurement										
PARM Code 34596 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
1,2-diphenylhydrazine	Sample Measurement										
PARM Code 34346 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Fluoranthene	Sample Measurement										
PARM Code 34376 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Fluorene	Sample Measurement										
PARM Code 34381 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobenzene	Sample Measurement										
PARM Code 39700 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobutadiene	Sample Measurement										
PARM Code 39702 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorocyclopentadiene	Sample Measurement										
PARM Code 34386 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachloroethane	Sample Measurement										
PARM Code 34396 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Indeno (1,2,3-Cd) pyrene	Sample Measurement										
PARM Code 34403 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Isophorone	Sample Measurement										
PARM Code 34408 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Naphthalene	Sample Measurement										
PARM Code 34696 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Nitrobenzene	Sample Measurement										
PARM Code 34447 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
N-nitrosodimethylamine	Sample Measurement										
PARM Code 34438 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
N-nitrosodi-n-propylamine	Sample Measurement										
PARM Code 34428 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
N-nitrosodiphenylamine	Sample Measurement										
PARM Code 34433 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Phenanthrene	Sample Measurement										
PARM Code 34461 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Pyrene	Sample Measurement										
PARM Code 34469 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
1,2,4-trichlorobenzene	Sample Measurement										
PARM Code 34551 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Aldrin	Sample Measurement										
PARM Code 39330 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Alpha-bhc	Sample Measurement										
PARM Code 39336 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
B-bhc-beta	Sample Measurement										
PARM Code 39338 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Gamma BHC (Lindane)	Sample Measurement										
PARM Code 39782 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Delta benzene hexachloride	Sample Measurement										
PARM Code 34259 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Chlordane (tech mix. and metabolites)	Sample Measurement										
PARM Code 39350 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,4'-DDT (p,p'-DDT)	Sample Measurement										
PARM Code 39300 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,4'-DDE (p,p'-DDE)	Sample Measurement										
PARM Code 39320 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,4'-DDD (p,p'-DDD)	Sample Measurement										
PARM Code 39310 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Dieldrin	Sample Measurement										
PARM Code 39380 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
A-endosulfan-alpha	Sample Measurement										
PARM Code 34361 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
B-endosulfan-beta	Sample Measurement										
PARM Code 34356 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endosulfan sulfate	Sample Measurement										
PARM Code 34351 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endrin	Sample Measurement										
PARM Code 39390 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Endrin aldehyde	Sample Measurement										
PARM Code 34366 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor	Sample Measurement										
PARM Code 39410 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor epoxide	Sample Measurement										
PARM Code 39420 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1242	Sample Measurement										
PARM Code 39496 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1254	Sample Measurement										
PARM Code 39504 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1221	Sample Measurement										
PARM Code 39488 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1232	Sample Measurement										
PARM Code 39492 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
PCB-1248	Sample Measurement										
PARM Code 39500 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1260	Sample Measurement										
PARM Code 39508 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1016	Sample Measurement										
PARM Code 34671 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Toxaphene	Sample Measurement										
PARM Code 39400 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable	Sample Measurement										
PARM Code 01118 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 G Mon. Site No. PRT-I	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-I

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Cyanide, Total Recoverable	Sample Measurement										
PARM Code 78248 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Phenolic Compounds, Total Recoverable	Sample Measurement										
PARM Code 70029 G Mon. Site No. PRT-I	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Domestic Wastewater Section, MS 3540, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Seminole County Environmental Services
MAILING ADDRESS: 500 West Lake Mary Boulevard
Sanford, Florida 32773-7441

PERMIT NUMBER: FLA011086-009-DW1P

FACILITY: SCES/Greenwood Lakes WRF
LOCATION: 701 Green Way Blvd
Lake Mary, FL 32746-3754

LIMIT: Final
CLASS SIZE: N/A
MONITORING GROUP NUMBER: PRT-E
MONITORING GROUP DESCRIPTION: Effluent Pretreatment
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
PROGRAM: Domestic

COUNTY: Seminole
OFFICE: Central District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. PRT-E	Permit Requirement				Report (Min.)		Report (Max.)	s.u.		Annually	Grab
Oil and Grease, hexane extr method	Sample Measurement										
PARM Code 00552 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)		Report (Max.)	mg/L		Annually	Grab
Benzene	Sample Measurement										
PARM Code 34030 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab
Bromoform	Sample Measurement										
PARM Code 32104 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab
Carbon tetrachloride	Sample Measurement										
PARM Code 32102 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab
Chlorobenzene	Sample Measurement										
PARM Code 34301 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)		Report (Max.)	ug/L		Annually	Grab

*FOR THOSE PARAMETERS THAT ARE SAMPLED ANNUALLY, THE MAXIMUM AND AVERAGE CONCENTRATIONS ARE EQUIVALENT AND SHALL BE REPORTED AS SUCH ON THE DMR.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Chlorodibromomethane	Sample Measurement										
PARM Code 34306 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroethane	Sample Measurement										
PARM Code 85811 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
2-chloroethyl vinyl ether (mixed)	Sample Measurement										
PARM Code 34576 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Chloroform	Sample Measurement										
PARM Code 32106 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
Dichlorobromomethane	Sample Measurement										
PARM Code 32101 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichlorobenzene	Sample Measurement										
PARM Code 34536 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,3-dichlorobenzene	Sample Measurement										
PARM Code 34566 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,4-dichlorobenzene	Sample Measurement										
PARM Code 34571 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,1-dichloroethane	Sample Measurement										
PARM Code 34496 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab
1,2-dichloroethane	Sample Measurement										
PARM Code 32103 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,1-dichloroethylene	Sample Measurement										
PARM Code 34501 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,2-dichloropropane	Sample Measurement										
PARM Code 34541 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,3-dichloropropene	Sample Measurement										
PARM Code 77163 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Ethylbenzene	Sample Measurement										
PARM Code 34371 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Methyl bromide	Sample Measurement										
PARM Code 34413 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Methyl chloride	Sample Measurement										
PARM Code 34418 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Methylene chloride	Sample Measurement										
PARM Code 34423 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,1,2,2-tetrachloroethane	Sample Measurement										
PARM Code 34516 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Tetrachloroethylene	Sample Measurement										
PARM Code 34475 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Toluene	Sample Measurement										
PARM Code 34010 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
1,2-trans-dichloroethylene	Sample Measurement										
PARM Code 34546 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,1,1-trichloroethane	Sample Measurement										
PARM Code 34506 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
1,1,2-trichloroethane	Sample Measurement										
PARM Code 34511 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Trichloroethylene	Sample Measurement										
PARM Code 39180 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Vinyl chloride	Sample Measurement										
PARM Code 39175 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
2-chlorophenol	Sample Measurement										
PARM Code 34586 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dichlorophenol	Sample Measurement										
PARM Code 34601 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dimethylphenol	Sample Measurement										
PARM Code 34606 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,6-dinitro-o-cresol	Sample Measurement										
PARM Code 34657 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dinitrophenol	Sample Measurement										
PARM Code 34616 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2-nitrophenol	Sample Measurement										
PARM Code 34591 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4-nitrophenol	Sample Measurement										
PARM Code 34646 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
p-chloro-m-cresol	Sample Measurement										
PARM Code 82627 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Pentachlorophenol	Sample Measurement										
PARM Code 39032 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Phenol, Single Compound	Sample Measurement										
PARM Code 34694 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4,6-trichlorophenol	Sample Measurement										
PARM Code 34621 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Acenaphthene	Sample Measurement										
PARM Code 34205 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Acenaphthylene	Sample Measurement										
PARM Code 34200 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Anthracene	Sample Measurement										
PARM Code 34220 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzidine	Sample Measurement										
PARM Code 39120 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Benzo(a)anthracene	Sample Measurement										
PARM Code 34526 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene	Sample Measurement										
PARM Code 34247 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(b)fluoranthene (3,4-benzo)	Sample Measurement										
PARM Code 79531 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(ghi)perylene	Sample Measurement										
PARM Code 34521 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(k)fluoranthene	Sample Measurement										
PARM Code 34242 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-chloroethoxy) methane	Sample Measurement										
PARM Code 34278 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-chloroethyl) ether	Sample Measurement										
PARM Code 34273 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-chloroisopropyl) ether	Sample Measurement										
PARM Code 34283 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate	Sample Measurement										
PARM Code 39100 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4-bromophenyl phenyl ether	Sample Measurement										
PARM Code 34636 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Butyl benzyl phthalate	Sample Measurement										
PARM Code 34292 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2-chloronaphthalene	Sample Measurement										
PARM Code 34581 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4-chlorophenyl phenyl ether	Sample Measurement										
PARM Code 34641 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Chrysene	Sample Measurement										
PARM Code 34320 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Dibenzo (a,h) anthracene	Sample Measurement										
PARM Code 34556 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
3,3'-dichlorobenzidine	Sample Measurement										
PARM Code 34631 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Diethyl phthalate	Sample Measurement										
PARM Code 34336 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Dimethyl phthalate	Sample Measurement										
PARM Code 34341 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Di-n-butyl phthalate	Sample Measurement										
PARM Code 39110 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dinitrotoluene	Sample Measurement										
PARM Code 34611 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
2,6-dinitrotoluene	Sample Measurement										
PARM Code 34626 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Di-n-octyl phthalate	Sample Measurement										
PARM Code 34596 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
1,2-diphenylhydrazine	Sample Measurement										
PARM Code 34346 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Fluoranthene	Sample Measurement										
PARM Code 34376 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Fluorene	Sample Measurement										
PARM Code 34381 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobenzene	Sample Measurement										
PARM Code 39700 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobutadiene	Sample Measurement										
PARM Code 39702 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorocyclopentadiene	Sample Measurement										
PARM Code 34386 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Hexachloroethane	Sample Measurement										
PARM Code 34396 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Indeno (1,2,3-Cd) pyrene	Sample Measurement										
PARM Code 34403 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Isophorone	Sample Measurement										
PARM Code 34408 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Naphthalene	Sample Measurement										
PARM Code 34696 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Nitrobenzene	Sample Measurement										
PARM Code 34447 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
N-nitrosodimethylamine	Sample Measurement										
PARM Code 34438 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
N-nitrosodi-n-propylamine	Sample Measurement										
PARM Code 34428 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
N-nitrosodiphenylamine	Sample Measurement										
PARM Code 34433 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Phenanthrene	Sample Measurement										
PARM Code 34461 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Pyrene	Sample Measurement										
PARM Code 34469 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
1,2,4-trichlorobenzene	Sample Measurement										
PARM Code 34551 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Aldrin	Sample Measurement										
PARM Code 39330 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Alpha-bhc	Sample Measurement										
PARM Code 39336 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
B-bhc-beta	Sample Measurement										
PARM Code 39338 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Gamma BHC (Lindane)	Sample Measurement										
PARM Code 39782 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Delta benzene hexachloride	Sample Measurement										
PARM Code 34259 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Chlordane (tech mix. and metabolites)	Sample Measurement										
PARM Code 39350 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,4'-DDT (p,p'-DDT)	Sample Measurement										
PARM Code 39300 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,4'-DDE (p,p'-DDE)	Sample Measurement										
PARM Code 39320 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
4,4'-DDD (p,p'-DDD)	Sample Measurement										
PARM Code 39310 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Dieldrin	Sample Measurement										
PARM Code 39380 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
A-endosulfan-alpha	Sample Measurement										
PARM Code 34361 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
B-endosulfan-beta	Sample Measurement										
PARM Code 34356 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Endosulfan sulfate	Sample Measurement										
PARM Code 34351 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Endrin	Sample Measurement										
PARM Code 39390 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Endrin aldehyde	Sample Measurement										
PARM Code 34366 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Heptachlor	Sample Measurement										
PARM Code 39410 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Heptachlor epoxide	Sample Measurement										
PARM Code 39420 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
PCB-1242	Sample Measurement										
PARM Code 39496 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
PCB-1254	Sample Measurement										
PARM Code 39504 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
PCB-1221	Sample Measurement										
PARM Code 39488 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
PCB-1232	Sample Measurement										
PARM Code 39492 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
PCB-1248	Sample Measurement										
PARM Code 39500 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1260	Sample Measurement										
PARM Code 39508 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
PCB-1016	Sample Measurement										
PARM Code 34671 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Toxaphene	Sample Measurement										
PARM Code 39400 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Chromium, Total Recoverable	Sample Measurement										
PARM Code 01118 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. PRT-E	Permit Requirement					Report (An.Avg.)	Report (Max.)	ug/L		Annually	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-E

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	24-hr FPC
Cyanide, Total Recoverable	Sample Measurement										
PARM Code 78248 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab
Phenolic Compounds, Total Recoverable	Sample Measurement										
PARM Code 70029 1 Mon. Site No. PRT-E	Permit Requirement				Report (An.Avg.)	Report (Max.)	ug/L			Annually	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Domestic Wastewater Section, MS 3540, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Seminole County Environmental Services
MAILING ADDRESS: 500 West Lake Mary Boulevard
Sanford, Florida 32773-7441

PERMIT NUMBER: FLA011086-009-DW1P

FACILITY: SCES/Greenwood Lakes WRF
LOCATION: 701 Green Way Blvd
Lake Mary, FL 32746-3754

LIMIT: Final
CLASS SIZE: N/A
MONITORING GROUP NUMBER: PRT-R
MONITORING GROUP DESCRIPTION: Residuals Pretreatment
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
PROGRAM: Domestic

COUNTY: Seminole
OFFICE: Central District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Arsenic Total, Dry Weight, Sludge	Sample Measurement										
PARM Code 49565 + Mon. Site No. PRT-R	Permit Requirement				Report (An.Avg.)	Report (Max.)	mg/kg			Annually	Composite
Cadmium, Sludge, Tot. Dry Wt. (Cd)	Sample Measurement										
PARM Code 78476 + Mon. Site No. PRT-R	Permit Requirement				Report (An.Avg.)	Report (Max.)	mg/kg			Annually	Composite
Copper, Sludge, Tot. Dry Wt. (as Cu)	Sample Measurement										
PARM Code 78475 + Mon. Site No. PRT-R	Permit Requirement				Report (An.Avg.)	Report (Max.)	mg/kg			Annually	Composite
Lead, Dry Weight	Sample Measurement										
PARM Code 78468 + Mon. Site No. PRT-R	Permit Requirement				Report (An.Avg.)	Report (Max.)	mg/kg			Annually	Composite
Mercury, Dry Weight	Sample Measurement										
PARM Code 78471 + Mon. Site No. PRT-R	Permit Requirement				Report (An.Avg.)	Report (Max.)	mg/kg			Annually	Composite
Molybdenum, Dry Weight	Sample Measurement										
PARM Code 78465 + Mon. Site No. PRT-R	Permit Requirement				Report (An.Avg.)	Report (Max.)	mg/kg			Annually	Composite

*FOR THOSE PARAMETERS THAT ARE SAMPLED ANNUALLY, THE MAXIMUM AND AVERAGE CONCENTRATIONS ARE EQUIVALENT AND SHALL BE REPORTED AS SUCH ON THE DMR.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: SCES/Greenwood Lakes WRF

MONITORING GROUP
NUMBER:
MONITORING PERIOD

PRT-R

PERMIT NUMBER: FLA011086-009-DW1P

From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nickel, Dry Weight	Sample Measurement										
PARM Code 78469 + Mon. Site No. PRT-R	Permit Requirement					Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Selenium Sludge Solid	Sample Measurement										
PARM Code 61518 + Mon. Site No. PRT-R	Permit Requirement					Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite
Zinc, Dry Weight	Sample Measurement										
PARM Code 78467 + Mon. Site No. PRT-R	Permit Requirement					Report (An.Avg.)	Report (Max.)	mg/kg		Annually	Composite



Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

PATHOGEN MONITORING

Part I - Instructions

1. Completion of this report is required by Rules 62-610.463(4), 62-610.472(3)(d), 62-610.525(13), 62-610.568(11), 62-610.568(12), and 62-610.652(6)(c), F.A.C., for all domestic wastewater facilities that provide reclaimed water to certain types of reuse activities. The schedule for sampling and reporting shall be in accordance with the permit for the facility. If a schedule for sampling or re-sampling is not included in the permit, the following schedule shall apply:
 - a. Routine Sampling:

If sampling is required once every two years, this report shall be submitted on or before November 28 of each even numbered year (2006, 2008, 2010, etc.).

If sampling is required once every five years, this report shall be submitted with the application for permit renewal.

If sampling is required quarterly, this report shall be submitted on or before February 28, May 28, August 28, and November 28 of each year.
 - b. Subsequent Re-Sampling:

If subsequent re-sampling is required by Item 9 in Part I of this form, this form shall be submitted for the subsequent re-sampling(s) in accordance with the schedule established in Item 9 in Part I of this form.
2. Submit one copy of this form and a copy of the laboratory's final report for the analysis of *Giardia* and *Cryptosporidium* to each of the following two addresses:
 - a. The appropriate DEP district office (attention Domestic Wastewater Program). Addresses for the DEP district offices are available at www.dep.state.fl.us/secretary/dist/default.htm.
 - b. DEP Water Reuse Coordinator
Mail Station 3540
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
3. Please type or print legibly.
4. In Part II, Items 7 through 12 need to be completed only if this is the first submittal of this report, if the information in Items 7 through 12 has changed since the last submittal, or if the information in any of these questions has not been previously provided.
5. Part III is to be used when sampling for *Giardia* and *Cryptosporidium* at the treatment plant. Part III is also to be used when sampling for *Giardia* and *Cryptosporidium* in a supplemental water supply (see Rule 62-610.472, F.A.C.).

6. For each sample, record the sample volume obtained in liters.
7. For *Giardia*, record the concentrations in cysts per 100 liters. For *Cryptosporidium*, record the concentrations in oocysts per 100 liters. Sufficient sample volumes shall be collected and processed such that the detection limit is no greater than 5 cysts or oocysts per 100 liters. Detection levels on the order of 1 cyst or oocyst per 100 liters are recommended. If an observation is less than the detection limit, make an entry in the form "<2" (where 2 per 100 liters is the detection limit in this example). The actual detection limit will be dictated by the volumes of sample obtained, filtered, and processed. Do NOT record nondetectable values as zero.
8. EPA Method 1623 or other approved methods for reclaimed water or nonpotable waters, adjusted appropriately to accommodate the detection limit requirements, shall be used. Methods previously allowed for EPA's Information Collection Rule (ICR) shall not be used. The full requirements of the approved method, including quality assurance and quality control, are to be met. Quality assurance and sampling requirements in Chapter 62-160, F.A.C., shall apply.

Two concentrations of *Giardia* and *Cryptosporidium* shall be recorded on Part III of this form:

- a. Total cysts and oocysts shall be enumerated using EPA Method 1623 or other approved methods.
 - b. Potentially viable cysts and oocysts shall be enumerated using the DAPI staining technique contained in EPA Method 1623 or similar enumeration techniques included in other approved methods. Cysts and oocysts that are stained DAPI positive or show internal structure by D.I.C. shall be considered as being potentially viable. If the laboratory reports separate values for DAPI positive and for cysts or oocysts having internal structure, the larger of the two concentrations will be reported as being potentially viable.
9. If the number of potentially viable cysts of *Giardia* reported exceeds 5 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. If the number of potentially viable oocysts of *Cryptosporidium* reported exceeds 22 per 100 liters, a subsequent sample shall be taken and analyzed using EPA Method 1623 or other approved methods and reported using this form. This subsequent sample shall be collected within 90 days of the date the initial sample was taken, analyzed for both *Giardia* and *Cryptosporidium*, and the results of the subsequent analysis shall be submitted to DEP using this form within 60 days of sample collection.
 10. Rule 62-160.300, F.A.C., requires that all laboratories generating environmental data for submission to the DEP shall hold certification from the Department of Health's (DOH) Environmental Laboratory Certification Program (ELCP). Certification by the ELCP for analysis of *Giardia* and *Cryptosporidium* using EPA Method 1623 for non-potable waters is required. If other approved methods are used, certification by the ELCP is required for the specific method and for the test matrix. Lists of certified laboratories can be found at www.dep.state.fl.us/labs/cgi-bin/aams/index.asp
 11. Samples shall be collected during peak flow periods (normally between the hours of 8:00 a.m. and 6:00 p.m.).
 12. Recognizing that concentrations of these pathogens generally increase during the late summer through fall period, it is recommended that utilities sample during the August through October time period.
 13. If the wastewater treatment facility uses chlorination for disinfection, samples obtained for analysis of *Giardia* and *Cryptosporidium* shall be dechlorinated.
 14. When sampling at the treatment facility, obtain a grab sample for total suspended solids (TSS) that is representative of the water leaving the filters at the treatment facility during the period when pathogen

samples are being obtained. In addition, record the highest turbidity and the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

15. When sampling a supplemental water supply, obtain a grab sample for total suspended solids (TSS) that is representative of the surface water or treated stormwater as it is added to the reclaimed water system. This TSS sample shall be taken during the period when pathogen samples are being obtained. In addition, record the lowest total chlorine residual observed during the period when pathogen samples are being obtained.

Part II - General Information

1. DEP wastewater facility identification number: **FLA011086**

Wastewater facility name: SCES/Greenwood Lakes WRF

Permittee name: Seminole County Environmental Services

2. Person completing this form:

Name: _____

Telephone: (_____) _____

Email address: _____

3. Sampling and analysis:

Date samples were taken: _____

Organization collecting the samples: _____

Was the sample dechlorinated in the field? ☐ Yes ☐ No

Was the sample refrigerated or kept on ice during shipment to the laboratory? ☐ Yes ☐ No

Date samples delivered to laboratory: _____

Date analytical work was done: _____

Laboratory doing the analysis: _____

Laboratory's DOH Identification Number: _____

Approved method used:

☐ EPA Method 1623

☐ Other approved method: _____

Contact person at the laboratory: _____

Email address of the lab contact person: _____

4. Is this the first time that this form has been submitted for the facility?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Question 5.]

5. Is this a report of "subsequent re-sampling" required by Item 9 in Part I of this form based on concentrations of potentially viable cysts or oocysts in a previous sampling?

☐ No [Proceed to Question 6.]

☐ Yes [Attach a description of any facility or operational changes made to the treatment facilities since the time of the previous sampling and proceed to Question 6.]

6. Has the information requested in Questions 7 through 12 (below) changed since the last submittal of this form?

☐ Yes [Please complete Questions 7 through 16.]

☐ No [Proceed to Questions 13 through 16 of Part II of this form. You do not need to complete Questions 7 through 12.]

7. Type of secondary treatment system:

☐ Conventional activated sludge

☐ Extended aeration

☐ Contact stabilization

☐ Biological nutrient removal (such as Bardenpho)

☐ Other: _____

8. Does this treatment facility nitrify (convert ammonia nitrogen to nitrate)? ☐ Yes ☐ No

9. Filter type:

☐ Deep bed, single media

☐ Deep bed, multiple media

☐ Shallow bed, automatic backwash

☐ Upflow (including Dynasand)

☐ Slow rate sand filter

☐ Diatomaceous earth filter

☐ Fabric filter

☐ Cartridge filter

☐ Membranes (microfiltration, ultrafiltration, membrane bioreactor, reverse osmosis)

☐ Other: _____

10. Filter Media (complete for each type of media provided):

Top layer of media: Media type: _____

Effective size: _____ mm

Uniformity coefficient: _____

Bed depth: _____ inches

Middle layer of media: Media type: _____
Effective size: _____ mm
Uniformity coefficient: _____
Bed depth: _____ inches

Bottom layer of media: Media type: _____
Effective size: _____ mm
Uniformity coefficient: _____
Bed depth: _____ inches

11. Filter backwash water:

- ☐ Backwash water is returned to the headworks of the treatment plant.
- ☐ Backwash water is returned to the aeration basin.
- ☐ Other. Please describe: _____

12. Disinfection system:

- ☐ Chlorination, gas ☐ Hypochlorite
- ☐ Chlorine dioxide ☐ Chlorination, other _____
- ☐ Ultraviolet ☐ Ozone
- ☐ Other: _____

13. Is chlorine added before the filters? ☐ No ☐ Yes Dose: _____ mg/L

14. During the period that samples were taken, did you add a coagulant, coagulant aid, polyelectrolyte, or other chemical to enhance filtration?

- ☐ No
- ☐ Yes. Please list the chemicals being added and their dose.

Chemical 1 - Name: _____ Dose: _____ mg/L

Chemical 2 - Name: _____ Dose: _____ mg/L

Chemical 3 - Name: _____ Dose: _____ mg/L

15. Wastewater treatment plant permitted capacity: _____ MGD

16. Wastewater flow being treated at the time samples were collected: _____ MGD

PART III - PATHOGEN MONITORING REPORT

FACILITY ID: FLA011086

FACILITY NAME: SCES/Greenwood Lakes WRF

FACILITY ADDRESS: 701 Green Way Blvd, Lake Mary, FL 32746-3754

PERMITTEE NAME: Seminole County Environmental Services

MAILING ADDRESS: 500 West Lake Mary Boulevard, Sanford, Florida 32773-7441

DATE OF SAMPLING: _____

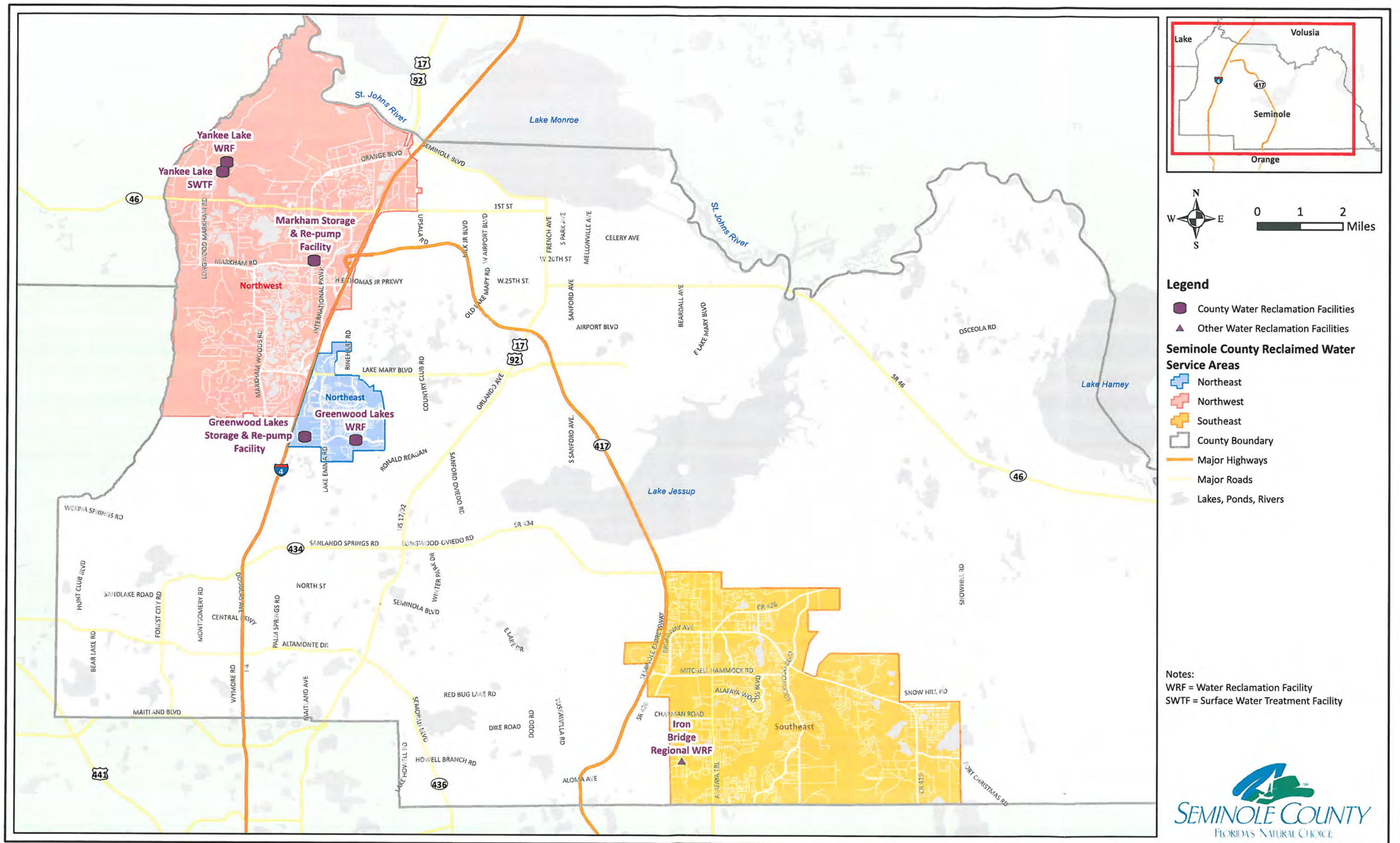
Parameter	Quantity or Loading		Quality or Concentration	
	Sample Measurement	Units	Sample Measurement	Units
Treatment Plant: After Filter Monitoring Site No. EFB-1				
Turbidity PARM Code 00070				NTU
TSS PARM Code 00530				mg/L
Treatment Plant: After Disinfection Monitoring Site No. EFA-1				
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> , total count * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L
Supplemental Water Supply (surface water or stormwater): After Treatment & Disinfection Monitoring Site No.				
TSS PARM Code 00530				mg/L
Total Chlorine Residual PARM Code 50060				mg/L
Volume Collected PARM Code 71994		Liters		
<i>Giardia</i> (total count) * PARM Code GIARD				total cysts/100 L
<i>Giardia</i> , potentially viable cysts * PARM Code VGIAR				potentially viable cysts/100 L
<i>Cryptosporidium</i> , total count * PARM Code CRYPT				total oocysts/100 L
<i>Cryptosporidium</i> , potentially viable oocysts * PARM Code VCRYP				potentially viable oocysts/100 L

* Data entries must be made for both total and potentially viable cysts and oocysts.

PART IV - CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based upon 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 Principle Executive Officer or Authorized Agent (Type or Print)	Signature of Principle Executive Officer or Authorized Agent	Telephone No.	Date (YY/MM/DD)
Email Address			



Seminole County Reclaimed Water Service Areas and Water Reclamation Facilities

PART III: WELL DEVELOPMENT DETAILS

Well Development Date	Well Development Method: ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (explain)		
Development Duration			
Pumping Rate	Maximum Drawdown	Well Purged Dry ☐ yes ☐ no	Pumping Condition ☐ continuous ☐ intermittent
Turbidity (if Measured):		Stabilized Water Level (BLS)	
Start:	End:		
Water appearance (color and odor) at start of development:			
Water appearance (color and odor) at end of development:			

Report Prepared By:	Date
Title/Company	License #

PLEASE ATTACH BORING LOG

[illegible]

Bob Martinez Center, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

PART III: WELL DEVELOPMENT DETAILS

Well Development Date	Well Development Method: ☐ Surge/Pump ☐ Pump ☐ Compressed Air ☐ Other (explain)		
Development Duration			
Pumping Rate	Maximum Drawdown	Well Purged Dry ☐ yes ☐ no	Pumping Condition ☐ continuous ☐ intermittent
Turbidity (if Measured):		Stabilized Water Level (BLS)	
Start:	End:		
Water appearance (color and odor) at start of development:			
Water appearance (color and odor) at end of development:			

Report Prepared By:	Date
Title/Company	License #

PLEASE ATTACH BORING LOG

[illegible]

**STATEMENT OF BASIS
FOR
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FLA011086-009
FACILITY NAME: Greenwood Lakes WWTP
FACILITY LOCATION: 701 Green Way Blvd, Lake Mary, FL 32746-3754
Seminole County
NAME OF PERMITTEE: Seminole County Environmental Services
PERMIT WRITER: Charles LeGros

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA011086-009-DW1P
Application Submittal Date: June 12, 2013

b. Type of Facility

Domestic Wastewater Treatment Plant
Ownership Type: County
SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity:	3.0 mgd Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 mgd Annual Average Daily Flow
Proposed Total Permitted Capacity:	3.0 mgd Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 3.0 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity wastewater treatment facility. The facility consists of a Carrousel (oxidation ditch) activated sludge facility with influent automatic/manual screening grit removal, flow equalization, chemical feed facilities secondary clarification, upflow deep bed granular media filters, facilities, chlorination chlorine contact chambers, and two 1.75 million gallon reuse storage tanks. Residuals are transferred to aerated holding tanks followed by beltpress dewatering and sent to a DEP approved Residuals Management Facility (RMF) or disposed of in a landfill. A new Sequential Facultative Digestion (SFD) process will also be used as part of the biosolids system.

e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)

Land Application R-001: An existing 1.8 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of Greenwood Lakes RIBs 1-9 having a capacity of 1.8 MGD located approximately at latitude 28°44' 11" N, longitude 81°22' 2" W. The RIBs have berm irrigation as needed. These RIBs also receive flow from the SCES/Yankee Lake WWTF.

Land Application R-002: An existing 3.0 MGD annual average daily flow permitted capacity slow-rate public access system. R-002 is a reuse system which consists of irrigation within the existing reuse service area as shown on the attached map

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not discharge to surface waters.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to direct reclaimed water to Reuse System R-001, a rapid infiltration basin system, based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (RIBs)	MGD	Max	1.8	Annual Average	62-600.400(3)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.740(1)(b)1.a. FAC
		Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
		Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
		Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
		Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.740(1)(b)1.a. FAC
		Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
		Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
		Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	62-600.440(4)(c)2. FAC
		Max	200	Annual Average	62-610.510 & 62-600.440(4)(c)1. FAC
		Max	800	Single Sample	62-600.440(4)(c)4. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-610.510 & 62-600.440(4)(b) FAC
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	62-610.510(1) FAC
Nitrogen, Total	mg/L	Max	3.0	Annual Average	62-600.550 FAC
		Max	Report	Monthly Average	62-600.550 FAC

This facility is authorized to direct reclaimed water to Reuse System R-002, a slow-rate public access system, based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Public Access Reuse)	MGD	Max	3.0	Annual Average	62-600.400(3)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.740(1)(b)1.a. FAC
		Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
		Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
		Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(5)(f)3. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(5)(f)2. FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	62-600.440(5)(f)1. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(5)(b), 62-610.460(2), & 62-610.463(2) FAC
Turbidity	NTU	Max	Report	Single Sample	62-610.463(2) FAC
Giardia	cysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Nitrogen, Total	mg/L	Max	10.0	Annual Average	62-600.550 FAC
		Max	Report	Monthly Average	62-600.550 FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-601.300(6) FAC
		Max	Report	Monthly Average	62-601.300(6) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (Total through plant)	MGD	Max	3.0	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)(b) FAC
		Max	Report	Quarterly Average	62-600.400(3)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-601, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA011086-009-DW1P expires on November 3, 2023.

5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to Seminole County Landfill or disposed of in another Class I solid waste landfill.

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Transferred)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	ton (d)	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency	All Parameters				62-640.650(5)(a) FAC

6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-601, and 62-522 F.A.C.

Facility's request to decrease the plant and reuse capacity from 3.5 MGD to 3.0 MGD has been approved by the Department in June 2008.

Groundwater Monitoring plan (GWMP) has included two monitor wells at the newly permitted slow rate public access reuse site at Sylvan Lake Park. Monitor wells MWB-12 (WAFR # 133962) and MWC-13 (WAFR # 133963) have been added to the GWMP.

Damaged monitor well MWC-8E (WAFR # 7076) at the RIB site has been eliminated from the GWMP . The replacement of this monitor well was not warranted due adequate groundwater monitoring network approved at the RIB site.

Parameters Arsenic, Cadmium, Chromium, Lead, and Sulfate are currently not included in the GWMP because they are not believed to be present in the effluent. However, if the Department has any reasons in the future to believe that these metals are present in the effluent, they will be added to the Ground Water Monitoring Plan sampling list.

The standard condition to abandon all monitoring wells and piezometers that will not be needed now or in the future has not been included, because it has been found to cause more confusion than clarity.

The aforementioned water sampling requirements are based on the site-specific information provided in the application, Best Professional Judgment, past experience with the facility and with other facilities in the same industry. Compliance with ground water quality standards must be documented at the compliance well. A reasonable assurance of compliance at the limit of the zone of discharge is required in the permit.

Conditions III. 12., 13., and the Certification Page requirement in III. 11., are based on best professional judgment of what DEP considers standard professional practice, such as reporting malfunctions to DEP. Malfunctions include mowing down of monitoring wells etc.

7. PERMIT SCHEDULES

Submit an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C., five years from the date of issuance of this permit. [62-600.405(5)]

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

The permittee has an active, approved industrial pretreatment program. The permit includes standard conditions requiring implementation and enforcement of the existing program.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This permit is not accompanied by an AO and the permittee has not entered into a CO with the Department.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 13. Copies will be provided at a minimal charge per page.

12. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Permit Issuance

November 4, 2013

13. DEPARTMENT CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Charles LeGros
Engineer IV

3319 Maguire Blvd Suite 232
Orlando, FL 32803-3767

Telephone No.: (407) 897-4100