

SANFORD NORTH WATER RECLAMATION FACILITY



CITY OF
SANFORD
FLORIDA

CLEAN WATERWAYS ACT WASTEWATER TREATMENT PLAN

JANUARY 2024



SANFORD NORTH

WATER RECLAMATION FACILITY

"DRAFT" CLEAN WATERWAYS ACT:
WASTEWATER TREATMENT PLAN



JANUARY 2024

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List of Abbreviations

AADF	Annual Average Daily Flow
ADF	Average Daily Flow
BMAP	Basin Management Action Plan
BMP	Best Management Practices
BNR	Biological Nutrient Removal
BOD	Biochemical Oxygen Demand
CAR	Capacity Analysis Report
CBOD ₅	Carbonaceous Biochemical Oxygen Demand - 5-Day
CCC	Chlorine Contact Chamber
CFR	Code of Federal Regulations
CIP	Capital Improvements Plan
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
lb/day	Pounds per day
MDF	Maximum Daily Flow
mg/L	Milligrams per Liter
MG	Million Gallons
MGD	Million Gallons per Day
MLSS	Mixed Liquor Suspended Solids
MLVSS	Mixed Liquor Volatile Suspended Solids
NaOCl	Sodium Hypochlorite
NH ₃ -N	Ammonia-Nitrogen
PAR	Public Access Reuse
PHF	Peak Hourly Flow
RAS	Return Activated Sludge
SNWRF	Sanford North Water Reclamation Facility
SRF	State Revolving Fund
SSWRC	Sanford South WRC
TKN	Total Kjeldahl Nitrogen (Organic-N + NH ₃ -N)
TMDL	Total Maximum Daily Load
TN	Total Nitrogen
TP	Total Phosphorus
WAS	Waste Activated Sludge
WRF	Water Reclamation Facility

SECTION 1

INTRODUCTION

1.1 GENERAL

The Clean Waterways Act of 2020 (Senate Bill 712), passed by the Florida Legislature and signed by Governor DeSantis on June 30, 2020, carries a wide range of water quality protection provisions aimed at:

- Minimizing the impact of known sources of nutrient pollution.
- Realigning the State's resources to enhance the protection of Florida's environment.
- Strengthening regulatory requirements.

The Clean Waterways Act is directed at protecting Florida's water resources and is expected to have several environmental, economic, and recreational benefits for the public. With more than 7,700 lakes, 10,550 miles of rivers, more than 1,000 springs, and 2,276 miles of tidal shoreline, water is Florida's most valuable resource, is an integral part of Florida's identity, and one of the key reasons so many people visit and move to the State. The Clean Waterways Act addresses several environmental issues, including several provisions focused on water quality improvement and oversight. Some of the primary components of The Clean Waterways Act include the following:

- Contingency plans for power outages to minimize discharges of untreated wastewater for all wastewater treatment and disposal facilities.
- Requires FDEP to adopt rules relating to domestic wastewater collection and transmission system pipe leakages and inflow and infiltration (I/I).
- Provision of financial records from all wastewater treatment and disposal facilities so that FDEP can ensure funds are being allocated to infrastructure upgrades, repairs, and maintenance that prevent systems from falling into states of disrepair.
- Regulation of septic tanks as a source of nutrients, transfer of oversight from the Department of Health (DOH) to the Florida Department of Environmental Protection (FDEP), and encouragement of septic-to-sewer conversions.

- Updating of biosolids rules and regulations.
- Detailed documentation of fertilizer use by agricultural operations to ensure compliance with Best Management Practices (BMPs) and aid in evaluation of their effectiveness.
- Updated stormwater rules and design criteria to improve the performance of stormwater systems statewide to specifically address nutrients.

With respect to wastewater treatment facilities, The Clean Waterways Act addresses a number of environmental issues including several provisions specifically related to water quality improvement to include the following:

Table 1.1-1: Florida Clean Waterways Act - Wastewater Provisions Summary	
Wastewater Treatment	
Requires local governments to create Wastewater Treatment Plans for certain Basin Management Action Plans (BMAPs) and authorizes different cost options for projects that meet pollution reduction requirements.	
Creates a wastewater grant program that allows FDEP to provide grants for projects within BMAPs, alternative restoration plans, or rural areas of opportunity that will reduce excess nutrient pollution. The Act prioritizes funding for certain wastewater projects in the grant program, the State Revolving Fund (SRF) Loan Program, and the Small Community Sewer Construction Assistance Program (SCSCAP).	
Prohibits, beginning July 1, 2025, wastewater treatment facilities from discharging into the Indian River Lagoon without providing advanced wastewater treatment (AWT).	
Imposes new requirements on wastewater facilities and FDEP to prevent sanitary sewer overflows (SSO's) and underground pipe leaks.	
Biosolids	
Requires enrollment in the Department of Agriculture and Consumer Services (DACS's) BMP program and prohibits the application of Class A or Class B biosolids within six (6) inches of the seasonal high water table, unless a Nutrient Management Plan (NMP) and water quality monitoring plan provide reasonable assurances that the application will not cause or contribute to water quality violations.	
Permits will have to comply with the statute within two (2) years and with FDEP's biosolids rule within two (2) years of it becoming effective. The Act allows local governments to keep any existing biosolids ordinances.	
Water Quality Monitoring	
Requires FDEP to establish a real-time water quality monitoring program, subject to appropriation.	
Golf Courses	
Requires FDEP to work with UF/IFAS and regulated entities to consider the adoption, by rule, of Best Management Practices (BMPs) for nutrient impacts from golf courses.	
Fines and Penalties	
Doubles the fines for wastewater violations and increases the cap on total administrative penalties that may be assessed by FDEP from \$10,000 to \$50,000 and the cap per violator from \$5,000 to \$10,000.	

1.2 SANFORD NORTH WRF

The Sanford North WRF is classified as an Advanced Wastewater Treatment plus Filtration Facility (Category I, Class A), utilizing the Integrated Fixed-Film Activated Sludge (IFAS) Biological Nutrient Removal (BNR) Process to treat the incoming wastewater from the service area and meets all Class I Reliability criteria. The facility is located at 1201 West Seminole Boulevard in Sanford, FL and is operating under FDEP Operations Permit No. FL0020141 (copy provided in Appendix A). The reclaimed water/effluent is distributed to the following FDEP-permitted land application sites:

Land Application Site Designation	FDEP Permitted Capacity (MGD AADF)	General Description
R-001	15.414	Public Access Reuse (PAR) System
D-001	1.000	Surface Water Discharge System to the St. Johns River

The Sanford North WRF has a permitted wet weather discharge to the St. Johns River and lies within the Middle St. Johns River BMAP area. Therefore, this Wastewater Treatment Plan is being submitted to FDEP in accordance with the Clean Waterways Act requirements.



1.3 THE CLEAN WATERWAYS ACT REQUIREMENTS

Subparagraph 403.067(7)(a)(9), Florida Statutes, specifies that local governments (counties and municipalities) within a Basin Management Action Plan (BMAP) must develop a Wastewater Treatment Plan containing specific information, if the Florida Department of

Environmental Protection (FDEP) identifies domestic wastewater treatment facilities as contributors of at least twenty (20) percent of point source or non-point source nutrient pollution or if the Department determines remediation is necessary to achieve the Total Maximum Daily Load (TMDL).

The Wastewater Treatment Plan must include the following:

- Description of the treatment facility and the unit operations and processes utilized.
- The facility's permitted treatment capacity and the historical flows received and treated over the last five years (minimum).
- The facility's permitted effluent limits.
- The facility's treatment performance over the last five years (minimum).
- Annual effluent loads discharged from the facility over the last five years (minimum).
- A capacity analysis for the treatment facility, considering future growth, for the twenty (20) year planning horizon.
- A list and ranking of facility improvements, expansion, or upgrades necessary to meet applicable nutrient water quality requirements (nutrient effluent limits in BMAP's and TMDL's, Florida Statutes, requirements, or other statutory or regulatory requirements), and the estimated costs of these facility improvements.
- A project schedule by which the construction of any facility improvements, including new/extended sewer lines, will begin and be completed and the date by which operations of the facility improvements will begin.

The Clean Waterways Act requires Wastewater Treatment Plans to be submitted to FDEP in accordance with the following schedule:

Form of Submittal	Submittal Deadline
"Draft" Wastewater Treatment Plan	February 1, 2024
"Final" Wastewater Treatment Plan*	August 1, 2024

* Based on addressing RAI comments from FDEP following submittal of the "Draft" Wastewater Treatment Plan

This Wastewater Treatment Plan for the Sanford North WRF has been generated to meet the requirements of The Clean Waterways Act (Senate Bill 712) and provides all of the relevant information required.

SECTION 2

EXISTING FACILITY CONDITIONS

2.1 WASTEWATER MANAGEMENT SYSTEM SERVICE AREA

The Sanford Wastewater Management System Service Area includes the City of Sanford and unincorporated portions of Seminole County as presented in Figure 2.1-1. The service area is generally bordered by Lake Monroe on the north, C.R. 427 and the Central Florida Greenway on the South, Lake Jesup on the east, and Interstate 4 on the west.

The Sanford Wastewater Management System serves the City's residential, commercial, light industrial and rural areas. Population and corresponding raw wastewater flow projections are based on this service area. The raw wastewater is collected and conveyed via gravity sewers, lift stations, and forcemains to the City's two water reclamation facility's that process all of the wastewater and biosolids generated in the treatment processes.

Treatment Facility	Treatment Facility Address	FDEP Permit No.	Treatment Capacity (MGD)
Sanford North WRF	1201 West Seminole Blvd., Sanford, FL 32771	FL0020141	7.30
Sanford South WRC	3540 Cameron Avenue, Sanford, FL 32773	FLA181714	3.00

Development is suburban in nature, dominated by single-family residential subdivisions and commercial development typically associated with residential development. Natural barriers and land development barriers regulated by the Federal and State government confine a portion of the Sanford Wastewater Management System Service Area.

2.2 SANFORD NORTH WATER RECLAMATION FACILITY (SNWRF)

The Sanford North WRF is classified as an Advanced Wastewater Treatment plus Filtration Facility (Category I, Class A), utilizing the IFAS Biological Nutrient Removal (BNR) Process to treat the raw wastewater from the service area and meets all Class I Reliability criteria. The IFAS BNR Process is designed and operated as a 4-Stage BNR process, consisting of four (4) treatment trains, each with primary anoxic (two-stage), aerobic, deoxygenation, secondary anoxic and reaeration basins and generates a high-quality effluent that is low in nutrients.

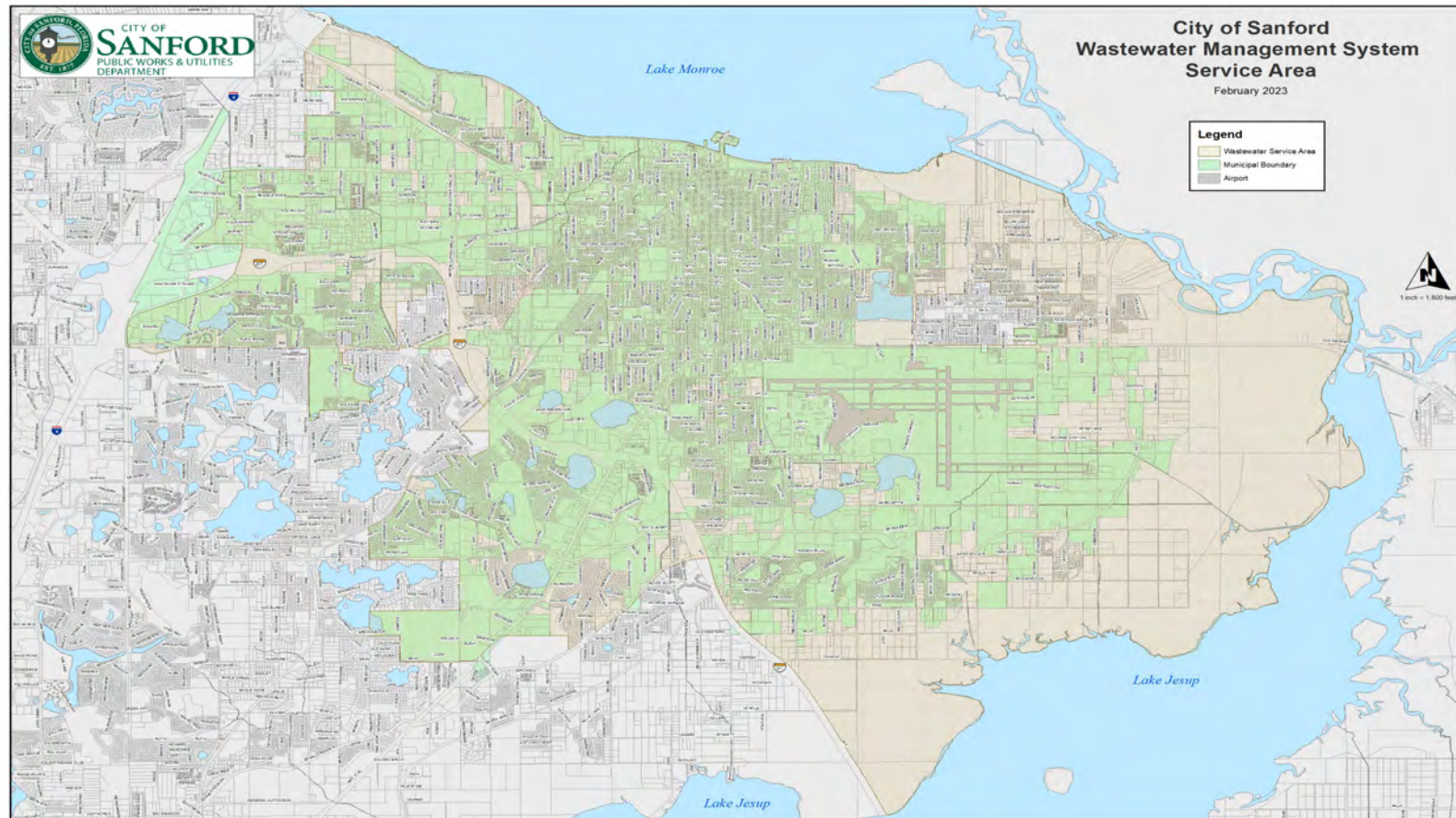


FIGURE 2.1-1

SANFORD WASTEWATER MANAGEMENT SYSTEM SERVICE AREA

The Sanford Wastewater Management System, Reclaimed Water System and the Sanford North Water Reclamation Facility (SNWRF) are currently operating under FDEP Operations Permit No. FL0020141. An aerial view, schematic flow diagram and site plan of the Sanford North WRF are presented in Figures 2.2-1 through 2.2-3, respectively.

The reclaimed water produced at the Sanford North WRF is used throughout the Sanford Wastewater Management System Service Area for slow-rate irrigation and land application of public and restricted access sites. Effluent in excess of the reclaimed water demand can be discharged to the St. Johns River via the Seasonal (Wet Weather) Discharge System; however, this discharge is limited to 1.00 MGD AADF.

The unit operations and processes currently employed at the Sanford North WRF (2023) are divided into the following elements/categories:

Treatment Elements	Description
Primary Treatment	Two (2) automatic, continuous, self-cleaning, mechanical barscreens (3 mm), screenings compacting/dewatering screw system, multi-directional wet scrubber (odor control) system and a vortex-type grit removal system.
Secondary Treatment	Biological oxidation of the organic wastes utilizing four (4) IFAS BNR Treatment Trains (4-Stage). Each treatment train includes a two-stage primary anoxic basin, aerobic basin, deoxygenation basin, secondary anoxic basin, an internal mixed liquor recycle (IMLR) pumping system and a reaeration basin. Flow splitter boxes direct flow to the three secondary clarifiers (85 ft diameter, 14 ft sidewater depth). Two RAS/WAS pumping stations (east and west) are utilized to convey the settled solids.
Tertiary Treatment	Tertiary filtration via traveling bridge filters (dual media - sand and anthracite) and backwashing systems.
Disinfection	High-level disinfection is accomplished through the use of a dual compartment Chlorine Contact Chamber (CCC) and bulk liquid NaOCl chemical feed and storage systems.
Biosolids Treatment	A Class "A" Biosolids Management System consisting of the following infrastructure: imported biosolids transfer pump station; gravity belt thickening system; ThermAer™ Autothermal Thermophilic Aerobic Digestion System (ATAD - 2 nd Generation) consisting of two ThermAer reactors and one SNDR reactor; Class A Biosolids Management Facility Building; a BioFiltAer odor control system; digested sludge transfer pump station; Biosolids Dewatering Building; biosolids dewatering system (volute screw presses); dewatered biosolids conveyer system; biosolids solar drying system (greenhouse); dried biosolids conveyor system; and a Dried Biosolids Truck Load-out Building. The dried, Class A biosolids can be transferred to Shelley's Environmental Systems (Zellwood, FL), distributed and marketed (after registration as a fertilizer), or disposed of in a Class I solid waste landfill.
Reclaimed Water Augmentation System (Used During the Dry Season)	The augmentation system consists of the following infrastructure: lake water pumping system; flow metering system; Influent Structure with an automatic, self-cleaning, mechanical barscreen (1 mm) and compacting/dewatering screw system; two (2) 4.0 MGD AADF ACTIFLO® treatment trains (coagulation, ballasted flocculation and high-rate clarification); chemical storage and feed systems; and a flow diversion system.



FIGURE 2.2-1

SANFORD NORTH WRF - AERIAL VIEW

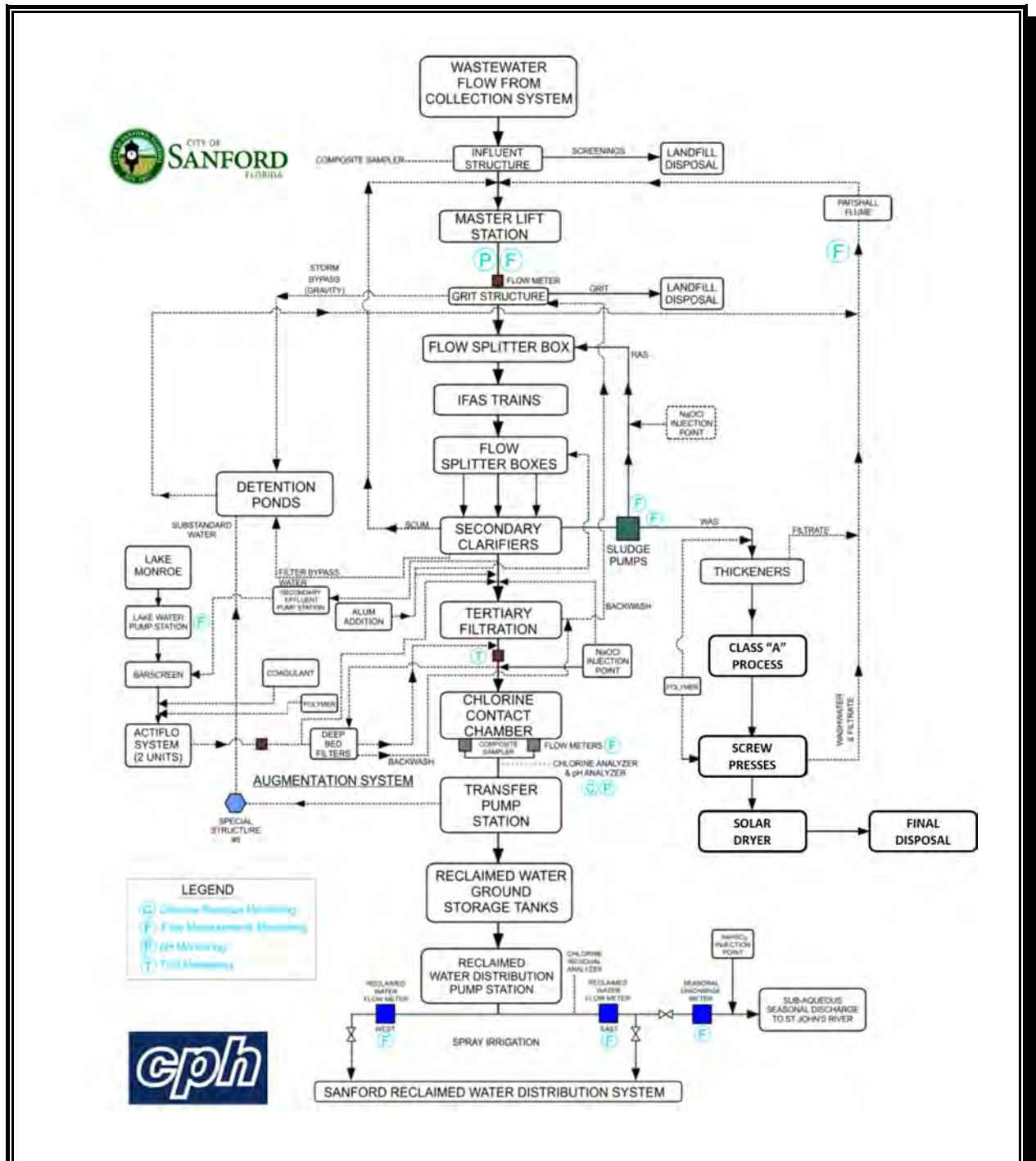


FIGURE 2.2-2

SANFORD NORTH WRF - SCHEMATIC FLOW DIAGRAM



FIGURE 2.2-3

SANFORD NORTH WATER RECLAMATION FACILITY: FACILITY SITE PLAN

2.2.1 Preliminary Treatment System

Raw wastewater flows from the Sanford Wastewater Management System Service Area enter the Influent Structure at the southeast corner of the facility. The Influent Structure consists of a cast-in-place concrete structure with dual channels. Each channel contains an automatic, continuous, self-cleaning mechanical barscreen (3 mm openings) and can be isolated using Co-Plastix sluice gates. The two influent channels converge at the end of the structure and the screened wastewater is conveyed, by gravity, to the Master Lift Station. Screenings from barscreens are conveyed to a common compacting/dewatering system for dewatering prior to discharge into a municipal dumpster at grade (landfill disposal).



Following the screening process, the raw wastewater is conveyed, by gravity, to the Master Lift Station. The Master Lift Station consists of two (2) cast-in-place concrete wetwells. Each wetwell has three (3) submersible pumps that convey the raw wastewater to the Grit Removal System where the flow is distributed to two (2) fiberglass, vortex-type grit chamber units for removal of the heavy inorganic matter. Degritted raw wastewater flows are then conveyed, by gravity, to the Biological Nutrient Removal (BNR) System flow splitter box.

2.2.2 AWT/BNR Treatment System

Advanced treatment of the raw, degritted wastewater at the SNWRF is provided by the Integrated Fixed-Film Activated Sludge (IFAS) BNR Process. The IFAS Process consists of four (4) treatment trains, each consisting of the following treatment elements: primary anoxic basin (two-stage); aerobic basin; deoxygenation basin; Internal Mixed Liquor Recycle (IMLR) system; secondary anoxic basin; and reaeration basin. The BNR treatment Process is designed to utilize the metabolic reactions of microorganisms to produce an acceptable effluent water quality by removing oxygen demanding constituents (CBOD₅) and nutrients (nitrogen and phosphorus).



The BNR treatment process is designed to produce a high-quality effluent by removing oxygen demanding constituents (CBOD₅), nitrogen, and phosphorus in accordance with all regulatory requirements.

Secondary clarification of the biologically treated wastewater is provided to remove MLSS, flocculated suspended solids and chemical precipitates and to meet the effluent criteria mandated by FDEP, EPA and Class I Reliability. Secondary clarification is provided by three identical 85-foot diameter, 14-foot sidewater depth, cast-in-place concrete clarifiers with full-surface skimmers and scum trapping and pumping systems.



2.2.3 Tertiary Filtration System

Tertiary Filtration of the treated effluent is required to ensure protection of public health and enhance the disinfection process by removing suspended and colloidal solids, viruses and fecal coliforms via straining, sedimentation, adsorption, and flocculation. Secondary effluent from the clarification system is conveyed to the tertiary filtration system, by gravity, and enters a common influent channel.

Tertiary Filtration is accomplished through the use of three (3) traveling bridge dual-media filter units. Each tertiary filter is rectangular in shape (16' x 64') with a surface area of 1,024 ft². Water passes through the filter media, where solids accumulate, and the hydraulic head increases as the filter run continues.

The backwash pumping system uses tertiary effluent for backwash water to clean the collected solids from the media. The backwash water is collected and conveyed to the backwash water pump station where it is pumped to the Master Lift Station.



2.2.4 High-Level Disinfection System

From the Tertiary Filters, the treated effluent flows to the Chlorine Contact Chamber (CCC), where high level disinfection is provided. The CCC is divided into two (2) distinct, compartments each with a volume of 11,075 ft³ (82,841 gallons).

Bulk sodium hypochlorite (NaOCl) is metered and mixed into the tertiary effluent and the CCC provides the contact time for the inactivation of fecal coliforms and pathogenic organisms. Each Chlorine Contact Chamber is sized for fifty percent (50%) of the total flow in accordance with Class I Reliability Criteria. The system is designed to provide a minimum of forty-four (44) minutes of contact time at AADF and twenty-one (21) minutes at PHF.



2.2.5 Dechlorination and Post-Aeration Systems

During periods of wet weather, the production of reclaimed water at the Sanford North WRF may exceed the reclaimed water demand in the distribution system. In this event, the facility operators can discharge reclaimed water to the St. Johns River via the Seasonal (Wet Weather) Discharge Transmission System. This discharge is limited to 365 MG/year, or 1.0 MGD AADF and must meet the water quality criteria outlined in the City's current FDEP Operations Permit (FL0020141). The reclaimed water or substandard water is then pumped, from the Sanford North WRF, approximately three (3) miles to an Aeration Structure located adjacent to the St. Johns River. Dechlorination is provided in the pipeline immediately upstream of the Aeration Structure using bulk liquid sodium bisulfite (NaHSO_3) to reduce the total chlorine residual concentration below 0.01 mg/L.

The Aeration Structure utilizes a system of interior concrete walls, with cascading weirs, to increase the dissolved oxygen (DO) concentration of the effluent to meet the water quality standard mandated in the Operations Permit ($[\text{DO}] \geq 5.0$ mg/L).

2.2.6 Reclaimed Water/Effluent Disposal Systems

The facility generates a high-quality reclaimed water suitable for public and restricted access reuse and surface water discharge. Reuse/effluent disposal is achieved by a combination of the following FDEP-permitted disposal systems:

Disposal System	AADF Capacity (MGD)	Description
Land Application (Reuse)	15.414	Public Access Reuse (PAR) System
Surface Water Discharge	1.0	St. Johns River Discharge

The reclaimed water is used throughout the service area for slow-rate, spray irrigation of the following FDEP-permitted sites:

Athletic complexes and parks	Residential developments
Business, Commercial, and Industrial Parks	Golf courses
Farms and Other Agricultural Activities	Edible Crop Irrigation
Retail nurseries, ferneries, and sod farms	Universities
Wholesale nurseries, ferneries, and sod farms	Other landscape irrigation
Industrial uses (cooling/process/wash water)	

Site 10, an undeveloped 1,800 acre site located east of the City and on the eastern edge of Lake Jesup, is utilized for restricted access, slow-rate spray irrigation of citrus groves, pasture land and hayfields. The reclaimed water disposal capacity of Site 10 is approximately 2.84 MGD AADF. Two reclaimed water storage ponds, with a total storage capacity of 33.3 MG, are located at Site 10. The City of Sanford also has interlocal agreements with the City of Lake Mary and Volusia County to provide reclaimed water on a daily basis.

2.2.7 Biosolids Treatment System

The Class A Biosolids Management System at the Sanford North WRF consists of the following infrastructure components/elements:

Sanford North WRF - Biosolids Management System	
Imported Sludge Transfer Pump Station	Biosolids Dewatering System (Volute Screw Presses)
Gravity Belt Thickening (GBT) System	Dewatered Biosolids Conveyor System
ThermAer™ Autothermal Thermophilic Aerobic Digestion Process (ATAD, 2nd Generation)	Biosolids Solar Drying System (Greenhouse)
Digested Sludge Transfer Pump Station	Dried Biosolids Conveyor System

Waste Activated Sludge (WAS) is pumped from the secondary clarifier(s) to the gravity belt thickening system (2 units) to increase the solids content of the sludge prior to entering the Class "A" biosolids treatment process. The ThermAer™ Process is an advanced Autothermal Thermophilic Aerobic Digestion process (2nd Generation ATAD System) designed to pasteurize biosolids, yield a significant reduction in biosolids mass and volume, and meet EPA's Class "A" biosolids designation. The Class "A" liquid sludge generated is dewatered using biosolids dewatering screw presses and is then conveyed into the biosolids solar dryer (greenhouse) to remove water from the sludge using solar energy.

The Class "A" biosolids are permitted to be transferred to Shelley's Environmental System's (Zellwood, FL) or another 3rd party vendor approved by FDEP or disposed of in a Class I solid waste landfill.



2.2.8 Facility Control/Monitoring System

The Sanford North WRF is equipped with the following facility control and monitoring systems:

- A facility-wide PICS/SCADA system
- An electronic surveillance and control system,
- An automatic flow diversion system (on-site and off-site storage for the reclaimed water produced at the facility).

2.3 DESIGN FLOW, CONCENTRATIONS, AND LOADING PARAMETERS

Design and current raw wastewater flows for the Sanford North WRF WRF are as follows:

Table 2.3-1: Sanford North WRF - Design and Current Wastewater Flow Rates		
Flow Condition	Raw Wastewater Flow Rate (MGD)	
	Design	Actual Operation ¹
Annual Average Daily Flow (AADF)	7.30	5.596
Maximum Daily Flow (MDF)	12.20	11.000
Peak Hourly Flow (PHF)	15.50	

¹ Actual flow conditions from November 2022 - October 2023. AADF and MDF are elevated due to Hurricanes Ian and Nicole.

The Sanford North WRF treats incoming raw wastewater flows for removal of organic matter (CBOD₅), TSS, nitrogen and phosphorus. The treatment facility is designed with the following influent and effluent characteristics and loadings:

Table 2.3-2: Sanford North WRF - Design Influent and Effluent Concentrations and Loadings				
Parameter	Raw Wastewater		Tertiary Effluent	
	Conc. (mg/L)	Loading (lb/day)	Conc. (mg/L)	Loading (lb/day)
CBOD ₅	225	13,698	5	304
Total Suspended Solids (TSS)	225	13,698	5	304
Total Kjeldahl Nitrogen (TKN) ¹	50	3,044	3	183
Total Phosphorus (TP)	8	487	1	61

¹ Tertiary Effluent Concentration is measured as Total Nitrogen (TN).

2.4 EFFLUENT DISPOSAL SYSTEMS AND LIMITATIONS

The Sanford North WRF is currently permitted under FDEP Operations Permit No. FL0020141 which expires on October 5, 2025. The FDEP-permitted reuse/disposal systems are as follows:

Table 2.4-1: Effluent Disposal System Descriptions and Capacities		
Effluent Disposal System	Disposal Capacity (MGD AADF)	Description
R-001	15.414	Slow-rate public access reuse system that provides reclaimed water for irrigation within the FDEP-approved Reuse Service Area and an 1,800 acre restricted access location referred to as Site 10 (2.84 MGD AADF capacity). This effluent disposal system is used by both the Sanford North WRF and the Sanford South WRC. The City also has reclaimed water interconnects with the City of Lake Mary and Volusia County. The Mill Creek Pond System is authorized to store, disinfect, and return reclaimed water to the PAR system.
D-001	1.000	An FDEP-approved discharge to the St. Johns River, Class III fresh waters, (WBID# 2893C) which is approximately 100 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 28°50' 14" N, longitude 81°19' 26" W.

2.4.1 Public Access Reuse System (R-001) - Effluent Limitations

Land Application System R-001 is an existing 15.414 MGD AADF slow-rate, public access reuse (PAR) system consisting of public access irrigation of residential lawns, golf courses, cemeteries, parks, landscape areas, highway medians, right-of-ways, etc., within the service area. The effluent limits for conveyance of reclaimed water into the public access reuse system (R-001) are as follows:

Table 2.4-2: Public Access Reuse System - Reclaimed Water Limitations (R-001)		
Monitoring Location	Parameter	Discharge Limits
Land Application System R-001 Public Access Reuse System	PAR Flow ^{1,3}	15.414 MGD
	Site 10 Flow ^{1,3}	2.84 MGD
	CBOD ₅ ^{1,3}	20 mg/L
	TSS ^{2,3}	5 mg/L
	pH ^{2,4,3}	6.0 - 8.5
	Fecal Coliforms ^{2,3}	25 / 100 mL
	Total Residual Chlorine ^{2,4}	1.0 mg/L

¹ Annual Average

² Single Sample

³ Maximum

⁴ Minimum

2.4.2 St. Johns River Discharge (D-001) - Effluent Limitations

Surface Water Discharge System D-001 is an existing 1.0 MGD AADF discharge from the Sanford North WRF to the St. Johns River via a three (3) mile long force main to the dechlorination and post-aeration facility (Aeration Structure). The effluent limits for conveyance of reclaimed water/effluent, via a surface water discharge, into the St. Johns River, are as follows:

Table 2.4-3: St. Johns River Discharge - Effluent Limitations (D-001)		
Monitoring Location	Parameter	Discharge Limits
Surface Water Discharge System D-001 St. Johns River	Flow ^{1,3}	1.0 MGD
	CBOD ₅ ^{1,3}	10 mg/L
	TSS ^{1,3}	10 mg/L
	pH ^{2,4,3}	6.0 - 8.5
	Fecal Coliforms ^{1,3}	200 / 100 mL
	E. Coli ^{5,3}	126 / 100 mL
	Total Residual Chlorine ^{2,4} (for disinfection)	0.5 mg/L
	Total Residual Chlorine ^{2,3} (for dechlorination)	0.01 mg/L
	Total Nitrogen ^{1,3}	6.0 mg/L
	Total Nitrogen ^{7,3}	19,342 lb/yr
	Total Ammonia Nitrogen ^{1,3}	1.0 mg/L
	Total Phosphorus ^{1,3}	1.0 mg/L
	Total Phosphorus ^{7,3}	2,345 lb/yr
	Acute Whole Effluent Toxicity ^{6,4}	100%
	Dissolved Oxygen ^{2,4}	5.0 mg/L
	Chlorodibromomethane ^{1,3}	34 ì g/kg
	Cyanide ^{2,3}	5.2 ì g/L
	Dichlorobromomethane ^{1,3}	22 ì g/kg
	Total Rec. Phenolic Compounds ^{2,3}	1 ì g/L

¹ Annual Average

² Single Sample

³ Maximum

⁴ Minimum

⁵ Monthly Geometric Mean

⁶ Annual

⁷ Annual Total

2.5 HISTORICAL WASTEWATER FLOWS

Historical wastewater flows, including monthly ADF flows, three-month ADF flows and annual ADF flows, for the Sanford North WRF for Calendar Years 2018 - 2023 are presented in Table 2.5-1 and are plotted as a function of time in Figures 2.5-1 through 2.5-3, respectively. Historical annual variations in raw wastewater flow are presented below.

Calendar Year	AADF (MGD)	Maximum Month Flow (MGD)	Maximum 3-Month ADF		Maximum 3-Month ADF to AADF Ratio	Maximum Month Peaking Factor
			Month	Flow (MGD)		
2018	5.548	7.359	August	7.015	1.264	1.326
2019	5.701	6.815	September	6.570	1.152	1.195
2020	5.945	8.017	November	6.975	1.173	1.349
2021	5.746	6.990	September	6.614	1.151	1.217
2022	6.254	9.806	November	8.500	1.359	1.568
2023	5.501	6.761	January	6.590	1.198	1.229
Average Flow Ratios/Factors:					1.216	1.314

The ratio of the maximum 3-month ADF to AADF averaged 1.216 and was found to vary slightly over the six-year period (1.151 - 1.359). Likewise, the maximum month peaking factor averaged 1.314 and was also found to vary over the six-year period (1.195 - 1.568). The higher values in the two ratios in 2022 were due to the excessive rainfall and infiltration/inflow due to Hurricanes Ian and Nicole.

A review of the historical raw wastewater flows to the Sanford North WRF, during the past five (5) years and in the last twelve (12) months, is synopsized in the table below.

Raw Wastewater Flow Condition	Sanford North WRF Raw Wastewater Flow (MGD)	
	Nov 2018 - Oct 2023	Nov 2022 - Oct 2023
Average Daily Flow	5.783	5.596
Maximum Day Flow	11.021	11.000
Minimum Day Flow	2.839	2.839
Monthly ADF Range	4.543 - 9.806	4.543 - 8.606
3-Month ADF Range	4.691 - 8.500	4.691 - 8.500
AADF Range (monthly rolling average)	5.449 - 6.266	5.597 - 6.266
% of Permitted Facility Capacity (ADF)	79.2%	76.7%

Table 2.5-1: Sanford North WRF - Historical Wastewater Flows

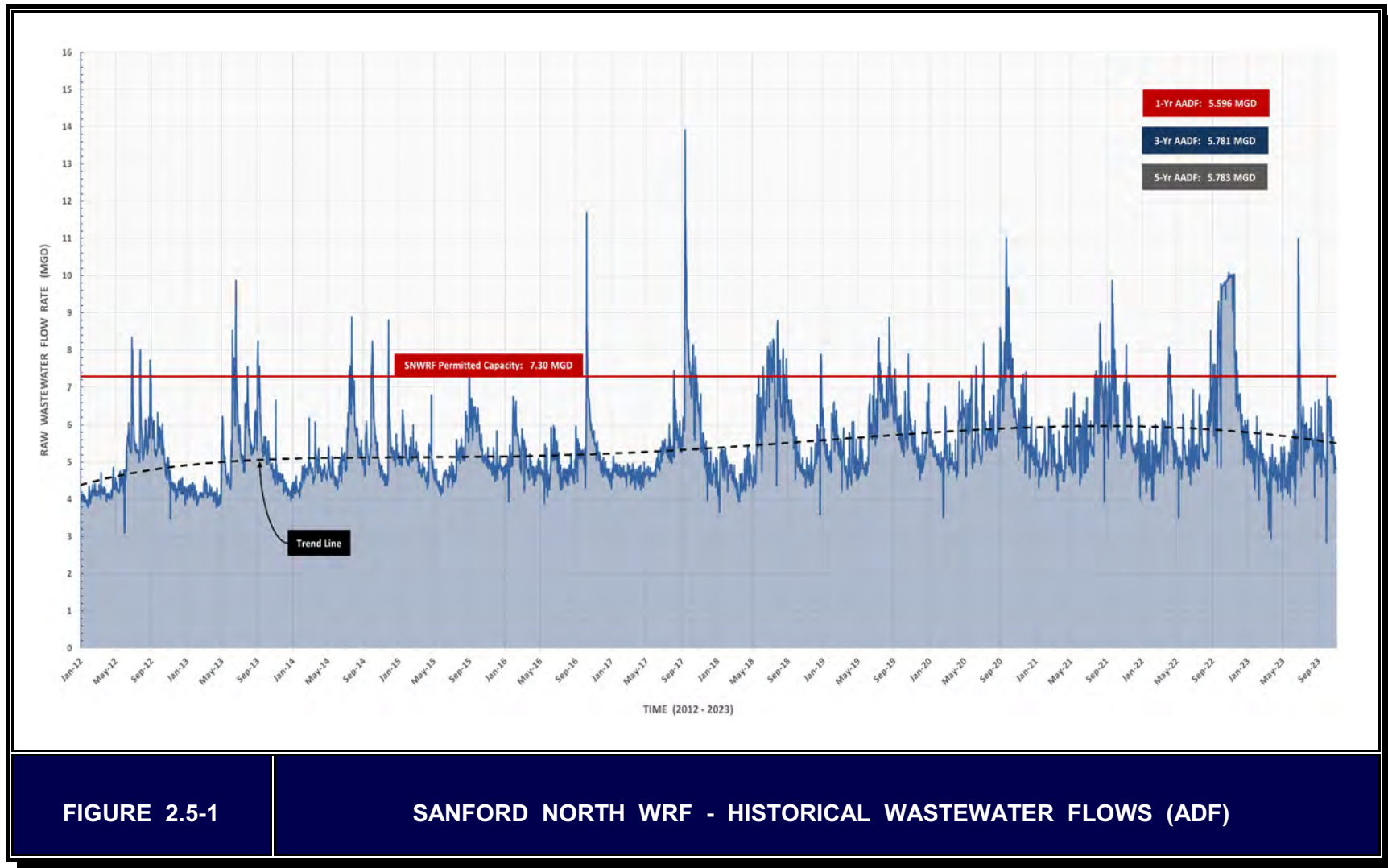
Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2018	4.797	4.944	5.386
FEBRUARY	2018	4.720	4.743	5.386
MARCH	2018	4.313	4.610	5.359
APRIL	2018	4.714	4.582	5.368
MAY	2018	5.499	4.842	5.435
JUNE	2018	6.762	5.658	5.575
JULY	2018	7.359	6.540	5.744
AUGUST	2018	6.924	7.015	5.836
SEPTEMBER	2018	5.951	6.745	5.668
OCTOBER	2018	4.889	5.921	5.497
NOVEMBER	2018	4.746	5.195	5.449
DECEMBER	2018	5.825	5.153	5.542
JANUARY	2019	5.282	5.284	5.582
FEBRUARY	2019	5.770	5.626	5.670
MARCH	2019	4.980	5.344	5.725
APRIL	2019	5.018	5.256	5.750
MAY	2019	4.944	4.981	5.704
JUNE	2019	5.947	5.303	5.636
JULY	2019	6.815	5.902	5.591
AUGUST	2019	6.851	6.538	5.585
SEPTEMBER	2019	6.043	6.570	5.593
OCTOBER	2019	5.969	6.288	5.683
NOVEMBER	2019	5.297	5.770	5.728
DECEMBER	2019	5.482	5.582	5.700

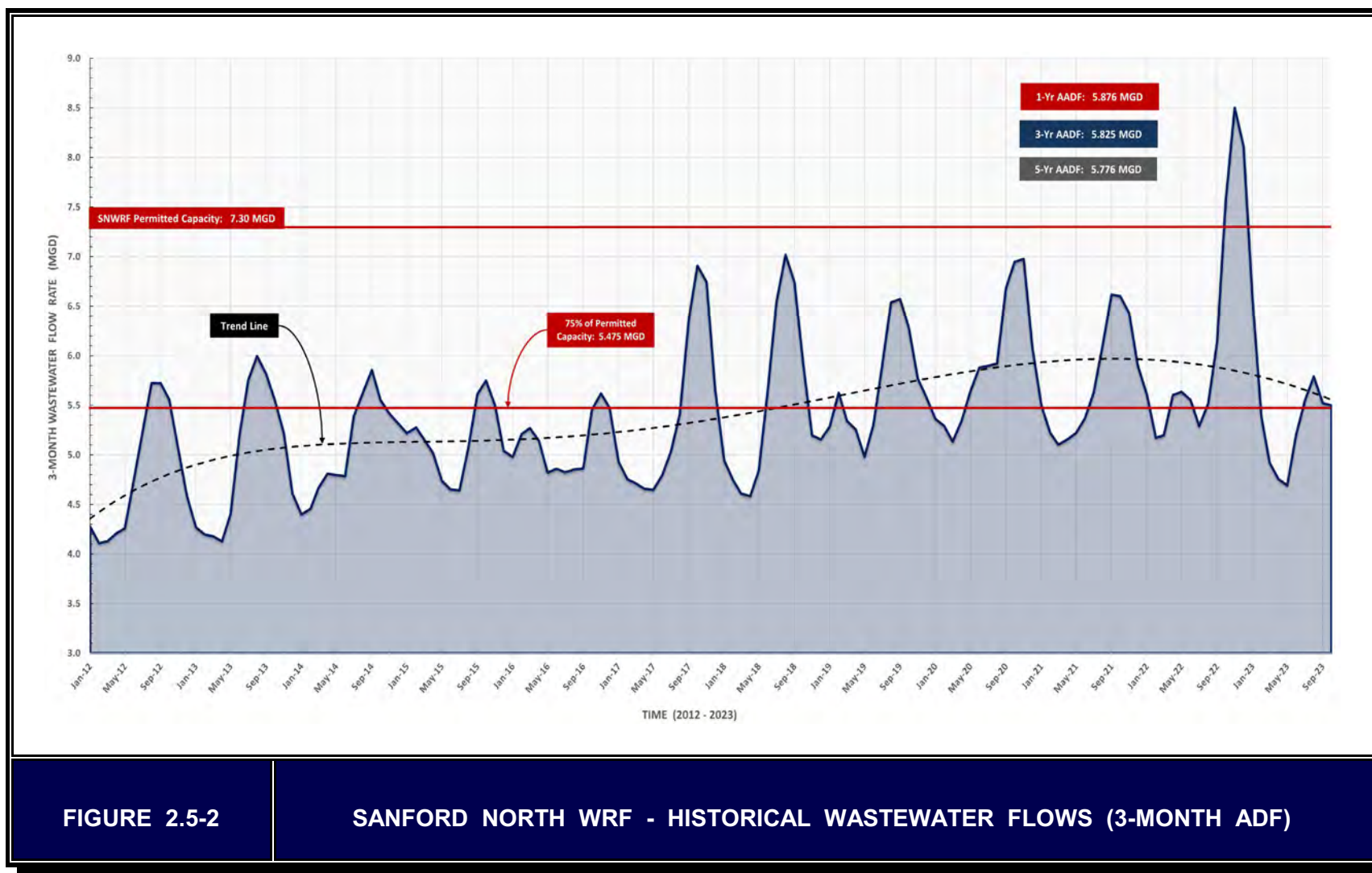
Table 2.5-1: Sanford North WRF WRF - Historical Wastewater Flows

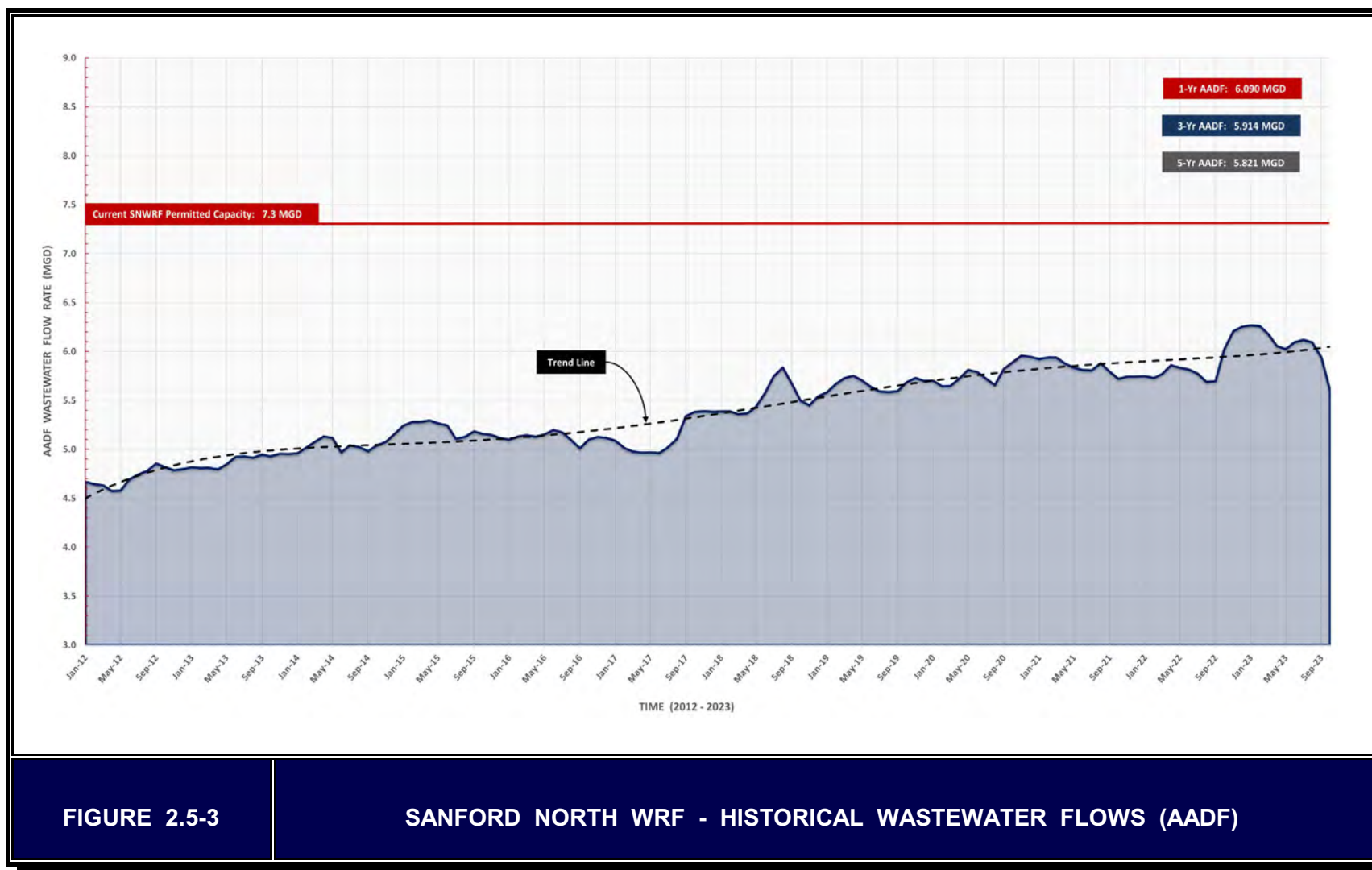
Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2020	5.305	5.361	5.702
FEBRUARY	2020	5.090	5.292	5.645
MARCH	2020	5.003	5.133	5.647
APRIL	2020	5.946	5.346	5.724
MAY	2020	5.967	5.639	5.810
JUNE	2020	5.723	5.879	5.791
JULY	2020	6.005	5.898	5.723
AUGUST	2020	6.028	5.919	5.655
SEPTEMBER	2020	8.017	6.683	5.819
OCTOBER	2020	6.788	6.944	5.888
NOVEMBER	2020	6.120	6.975	5.956
DECEMBER	2020	5.358	6.089	5.946
JANUARY	2021	5.018	5.499	5.922
FEBRUARY	2021	5.291	5.222	5.939
MARCH	2021	4.996	5.102	5.938
APRIL	2021	5.177	5.155	5.874
MAY	2021	5.488	5.220	5.834
JUNE	2021	5.437	5.367	5.810
JULY	2021	5.954	5.626	5.806
AUGUST	2021	6.898	6.096	5.879
SEPTEMBER	2021	6.990	6.614	5.793
OCTOBER	2021	5.917	6.601	5.720
NOVEMBER	2021	6.374	6.427	5.741
DECEMBER	2021	5.402	5.897	5.745

Table 2.5-1: Sanford North WRF WRF - Historical Wastewater Flows

Month	Year	Monthly ADF (MGD)	3-Month ADF (MGD)	AADF (MGD)
JANUARY	2022	5.044	5.607	5.747
FEBRUARY	2022	5.067	5.171	5.729
MARCH	2022	5.489	5.200	5.770
APRIL	2022	6.254	5.603	5.859
MAY	2022	5.162	5.635	5.832
JUNE	2022	5.239	5.552	5.816
JULY	2022	5.463	5.288	5.775
AUGUST	2022	5.851	5.518	5.688
SEPTEMBER	2022	7.087	6.134	5.696
OCTOBER	2022	9.806	7.581	6.020
NOVEMBER	2022	8.606	8.500	6.206
DECEMBER	2022	5.932	8.115	6.250
JANUARY	2023	5.233	6.590	6.266
FEBRUARY	2023	4.986	5.383	6.259
MARCH	2023	4.543	4.921	6.180
APRIL	2023	4.738	4.756	6.054
MAY	2023	4.793	4.691	6.023
JUNE	2023	6.073	5.201	6.093
JULY	2023	5.769	5.545	6.118
AUGUST	2023	5.526	5.789	6.091
SEPTEMBER	2023	5.268	5.521	5.939
OCTOBER	2023	5.695	5.496	5.597
NOVEMBER	2023			
DECEMBER	2023			







The Sanford North WRF raw wastewater flows, during the period from November 2018 - October 2023 and in the last twelve (12) months, were approximately 79.2% and 76.7% of the permitted capacity of the facility, respectively. The last two (2) years have had significant rainfall amounts due to various hurricanes and intense localized thunderstorms that have impacted the raw wastewater flows received at the Sanford North WRF. However, raw wastewater flow rates are below the facility's permitted capacity (7.30 MGD AADF) and the ***Sanford North WRF is capable of handling the raw wastewater hydraulic loadings anticipated over the 20-year planning horizon.***

2.6 FACILITY EFFLUENT FLOWS

As previously indicated, highly treated effluent from the Sanford North WRF can be discharged to the following FDEP-permitted disposal systems:

Disposal System	FDEP Designation	AADF Capacity (MGD)	Disposal System Description
Land Application (Reuse)	R-001	15.414	Public Access Reuse (PAR) System
Surface Water Discharge	D-001	1.000	St. Johns River

The distribution of reclaimed water from the Sanford North WRF to the FDEP-permitted effluent disposal systems (Public Access Reuse (PAR) system and the seasonal (wet weather discharge) to the St. Johns River), on an annual basis, for the period from January 2018 - October 2023, is presented in a tabularized form in Table 2.6-1.

Table 2.6-1: Sanford North WRF - Reclaimed Water/Effluent Distribution				
Calendar Year	Public Access Reuse (PAR) System		Surface Water Discharge to the St. Johns River	
	Flow Rate (MGD)	% of Total Effluent Flow	(MGD)	% of Total Effluent Flow
2018	6.193	89.2%	0.753	10.8%
2019	6.809	98.1%	0.135	1.9%
2020	7.170	100.0%	0.000	0.0%
2021	6.551	99.7%	0.021	0.3%
2022	5.395	100.0%	0.000	0.0%
2023 ¹	5.075	99.4%	0.030	0.6%
Average:	6.199	97.7%	0.157	2.3%
Capacity:	15.414		1.00	

¹ Partial Year Data (January - October 2023).

The facility effluent flow data indicates that Sanford's Wastewater Management Plan is a program of water reuse. The facility effluent was delivered to the reclaimed water distribution system 97.7% of the time over the period from January 2018 - October 2023. There were only fourteen (14) calendar days in the last four (4) years that reclaimed water was sent to the surface water discharge system and that was due to significant and intense localized rainfall events that caused severe flooding and elevated groundwater levels, thereby increasing the amount of infiltration and inflow received at the facility.

2.7 FACILITY EFFLUENT QUALITY

The Sanford North WRF utilizes screening, grit removal, a integrated, fixed-film BNR process, secondary clarification, tertiary filtration, and high-level disinfection, to treat the raw wastewater prior to discharge to its FDEP-permitted disposal sites.

The reclaimed water quality produced by the Sanford North WRF, on an annual basis, for the period from January 2018 - October 2023 is presented graphically in Figures 2.7-1 through 2.7-4 and summarized in the table below.

Calendar Year	Reclaimed Water Quality Concentration (mg/L) - Annual Averages				
	CBOD ₅	TSS	TN	TP	Fecal Coliforms ¹
2018	1.5	1.0	4.9	0.7	< 1
2019	1.6	1.1	2.3	0.8	< 1
2020	1.9	0.8	2.4	0.8	< 1
2021	1.5	0.9	6.7	1.6	< 1
2022	2.9	1.4	6.1	1.5	< 1
2023 ²	4.1	2.0	6.0	1.4	< 1
5-Yr Avg:	2.3	1.2	4.7	1.1	< 1
Permit Limit:	20	5	---	---	20

¹ Units for fecal coliforms are #/100 mL.

² January - October 2023

The reclaimed water generated by the Sanford North WRF meets all effluent limitations defined in the facility's FDEP Operations Permit (No. FL0172090).

Reclaimed water quality (CBOD₅, TSS, TKN/TN, and TP) generated by the Sanford North WRF, over the period from January 2018 - October 2023, and treatment system (parameter removal) efficiencies are presented below in Table 2.7-1.

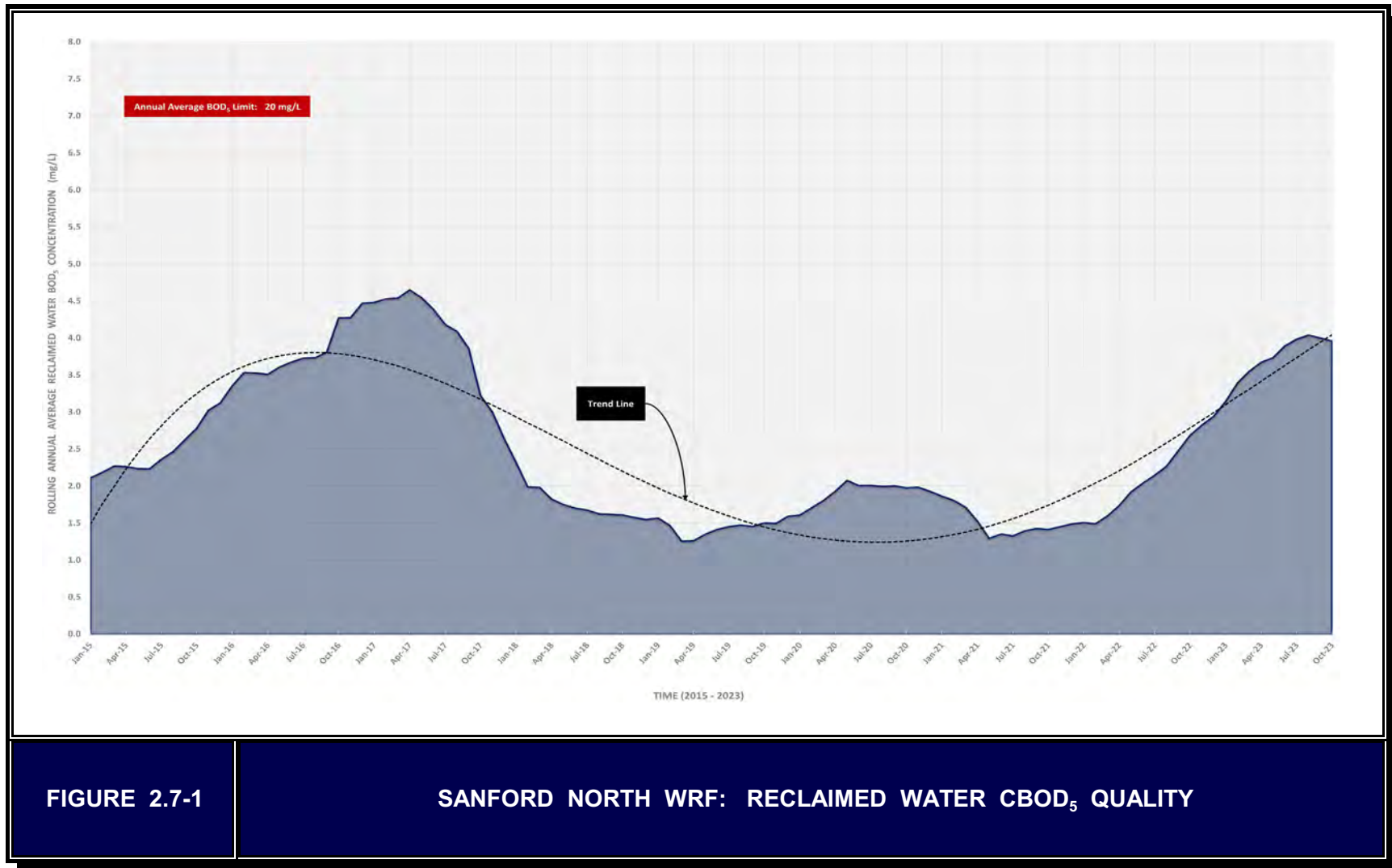
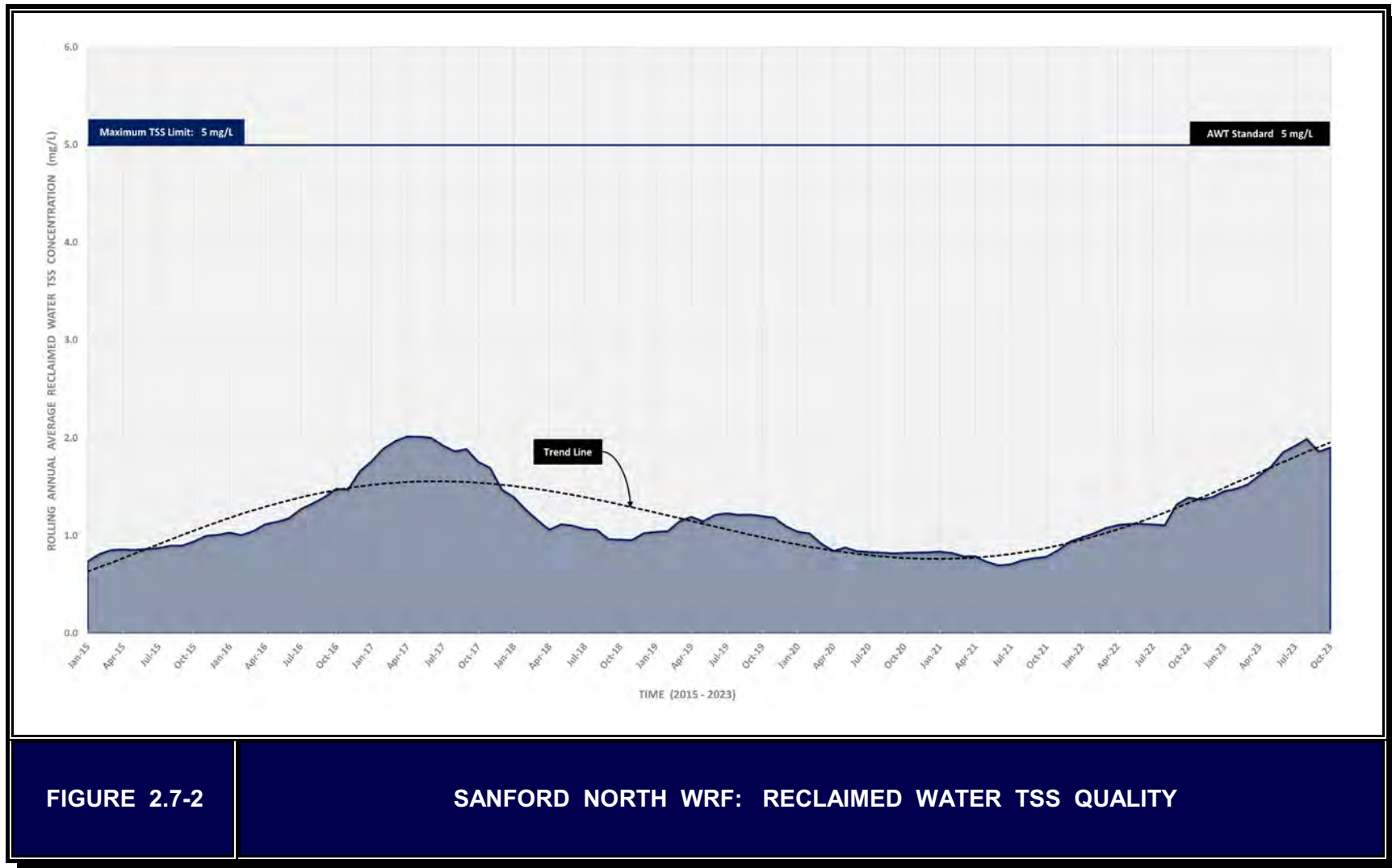
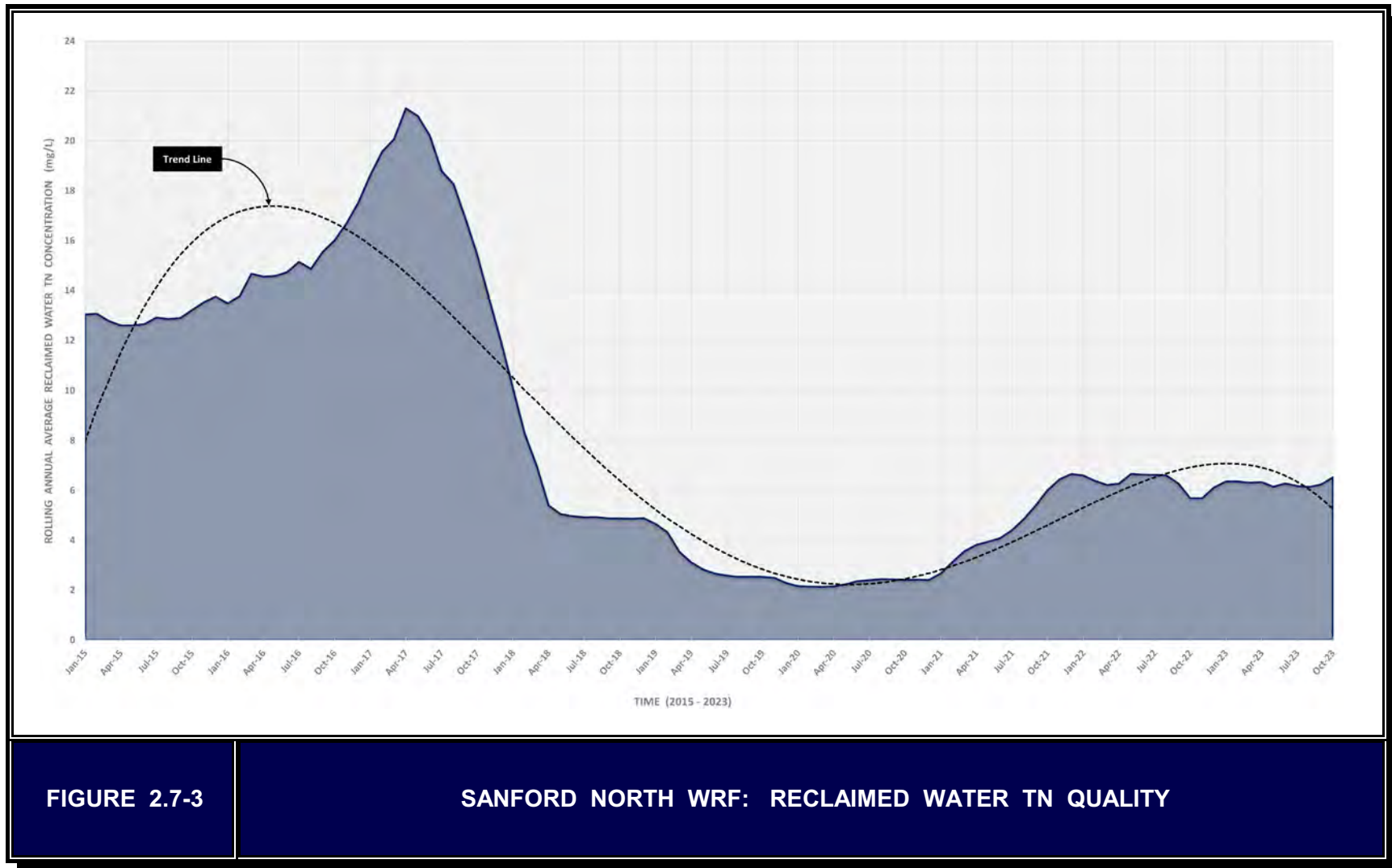


FIGURE 2.7-1

SANFORD NORTH WRF: RECLAIMED WATER CBOD₅ QUALITY





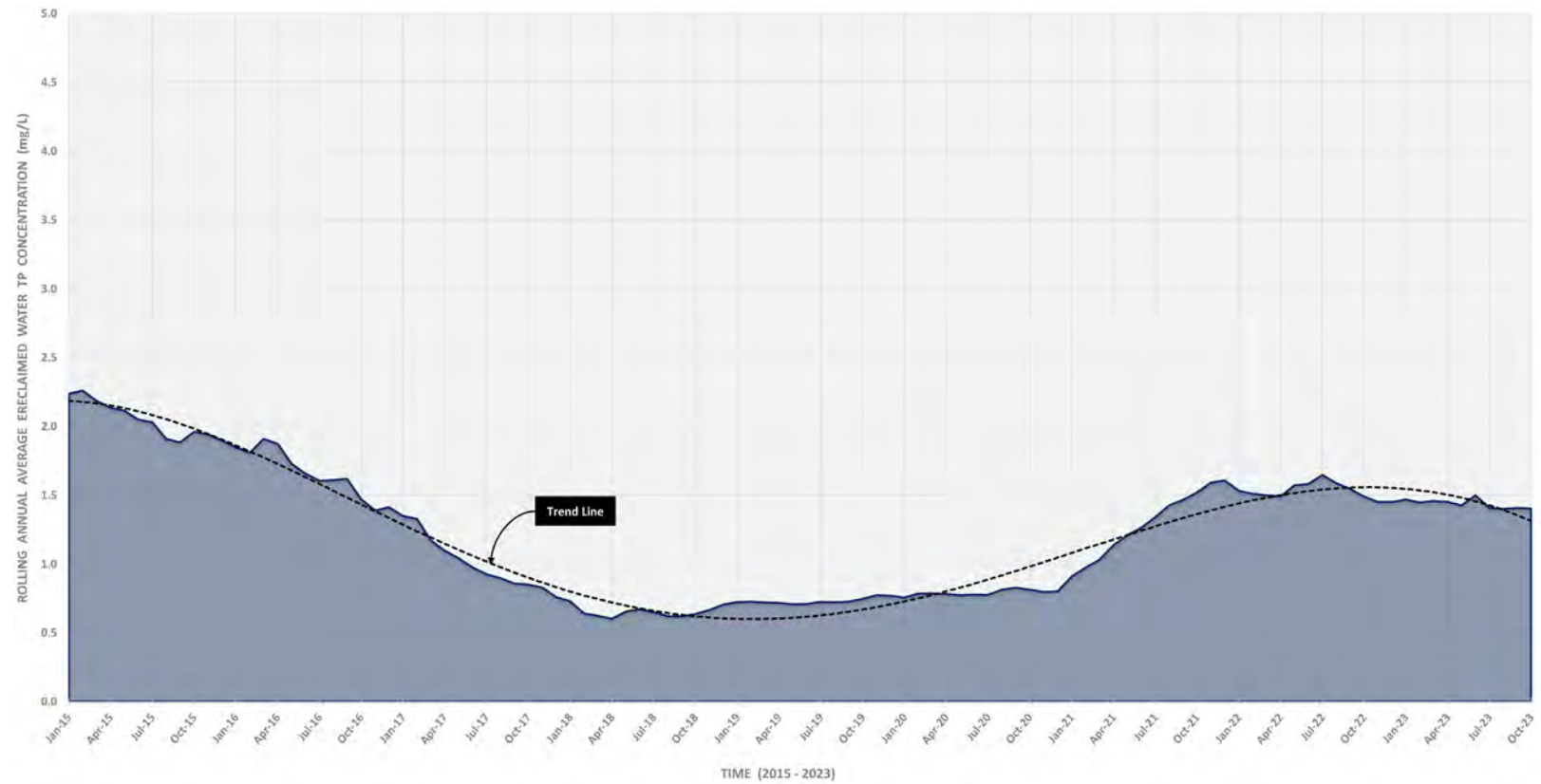


FIGURE 2.7-4

SANFORD NORTH WRF: RECLAIMED WATER TP QUALITY

Table 2.7-1: Sanford North WRF - Treatment System Efficiency (2018 - 2023) ¹							
Parameter	Influent Conc. (mg/L)	Influent Loading (lb/day)	Effluent Conc. (mg/L)	Effluent Loading (lb/day)	Parameter Removal (lb/day)	Percent Removal	
						Design	Actual
CBOD ₅	151	7,240	2.3	108	7,132	97.8%	98.5%
TSS	137	6,563	1.2	57	6,506	97.8%	99.1%
TKN/TN ²	50	2,401	4.7	225	2,175	94.0%	90.6%
TP ²	6	288	1.1	54	234	83.3%	81.3%

¹ AADF (Jan 2018 - Oct 2023): 5.757 MGD

² From limited operational testing (not required by FDEP permit)

2.7.1 CBOD₅ Treatment (Removal) Efficiency

Over the period from January 2018 - October 2023, actual influent CBOD₅ concentrations were below the values used in the design of the facility. The Sanford North WRF has the ability to operate efficiently between 50 mg/L and 400 mg/L by adjusting process operations.

The effluent CBOD₅ concentrations are significantly below the design values used for the facility, typical AWT standards (< 5 mg/L), and meet the limitations identified in the current FDEP Operations Permit.

The treatment (removal) efficiency averaged 98.5%; which is slightly greater than the design treatment efficiency of 97.8% and significantly greater than the minimum FDEP requirement of 85%. Thus, ***the Sanford North WRF is highly effective in removing organic matter (CBOD₅) from the raw wastewater and is capable of meeting all FDEP requirements.***

2.7.2 TSS Treatment (Removal) Efficiency

Over the period from January 2018 - October 2023, actual influent TSS concentrations were below the values used in the design of the facility. The Sanford North WRF has the ability to operate efficiently between 40 mg/L and 500 mg/L by adjusting process operations.

The effluent TSS concentrations are significantly below the design values used for the facility, typical AWT standards (< 5 mg/L) and meet the limitations identified in the current FDEP Operations Permit.

The treatment (removal) efficiency averaged 99.1%; which is greater than the design treatment efficiency of 97.8% and significantly greater than the minimum FDEP requirement of 85%. Thus, ***the Sanford North WRF is highly effective in removing TSS from the raw wastewater*** as well as other solids generated in the treatment process and is capable of meeting all FDEP requirements.

2.7.3 TN Treatment (Removal) Efficiency

Over the period from January 2018 - October 2023, actual influent TKN concentrations were in the range of values used in the design of the facility. The facility has the ability to operate efficiently between 15 mg/L and 60 mg/L by adjusting process operations.

The TN treatment (removal) efficiency averaged 90.6%; which is slightly less than the design treatment efficiency of 94.0%. The effluent TN concentration has been impacted by equipment that has been out of service for some time and is awaiting replacement as well as other facility operational issues. The City is currently in the process of addressing these issues. The facility is efficient in removing nitrogen from the raw wastewater and is capable of meeting FDEP requirements.

2.7.4 TP Treatment (Removal) Efficiency

Over the period from January 2018 - October 2023, actual influent TP concentrations have been in the range of values used in the design of the facility. The facility has the ability to operate efficiently between 2 mg/L and 10 mg/L by adjusting process operations and/or adding alum/polymer to the biological treatment units (enhancing TP removal via chemical precipitation).

The TP treatment (removal) efficiency averaged 81.3%; which is slightly less than the design treatment efficiency of 83.3%. The effluent TP concentration has also been impacted by equipment that has been out of service for some time and is awaiting replacement as well as other facility operational issues. The City is currently in the process of addressing these issues. The facility is efficient in removing phosphorus from the raw wastewater and is capable of meeting FDEP requirements.

2.8 FACILITY EFFLUENT LOADINGS

2.8.1 Public Access Reuse System (R-001) - Applied Concentrations/Loadings

Land application system R-001 is an existing FDEP-permitted (15.414 MGD AADF) slow-rate, public access reuse system. The public access reuse system infrastructure associated with the Sanford North WRF consists of the following:

- A transfer pump station
- Two, 1.5 MG reclaimed water ground storage tanks
- A reclaimed water distribution pump station
- Earthen, lined, storage ponds for any substandard/reject water generated
- Storage tanks and ponds located throughout the service area

The PAR system consists of slow-rate, public access spray irrigation of residential lawns, golf courses, cemeteries, parks, landscaped areas, highway and road medians, right-of-ways, athletic complexes, agricultural irrigation, business/commercial/industrial parks, nurseries/ferneries/sod farms, and other public uses. The City also has an 1,800 acre, restricted access site for irrigation of citrus groves, pasture land, and hayfields with a permitted capacity of 2.84 MGD AADF.

The average annual reclaimed water quality concentrations (CBOD₅, TSS, TN and TP) applied to the Public Access Reuse System (PAR), from the Sanford North WRF, for the six (6) year period (2018 - 2023), is presented below in Table 2.8-1.

Table 2.8-1: PAR System - Water Quality Concentrations (2018 - 2023)					
Calendar Year	Annual Flow Rate to the PAR (MGD)	Reclaimed Water Concentrations (mg/L) Applied to the PAR			
		CBOD ₅	TSS	TN	TP
2018	6.193	1.5	1.0	4.9	0.7
2019	6.809	1.6	1.1	2.3	0.8
2020	7.170	1.9	0.8	2.4	0.8
2021	6.551	1.5	0.9	6.7	1.6
2022	5.395	2.9	1.4	6.1	1.5
2023	5.075	4.1	2.0	6.0	1.4
Average:	6.199	2.3	1.2	4.7	1.1
Limit:	15.414	20.0	5.0	---	---

The reclaimed water quality applied to the public access reuse system meets all FDEP-permit requirements and is providing significant environmental benefits to the regional area.

The average annual reclaimed water loadings (CBOD₅, TSS, TN and TP) applied to the Public Access Reuse System (R-002), from the Sanford North WRF, for the six (6) year period (2018 - 2023), are synopsized below in Table 2.8-2:

Table 2.8-2: Public Access Reuse System - Constituent Loadings (2018 - 2023)					
Calendar Year	Flow Rate to the PAR (MGD)	Reclaimed Water Constituent Loadings (lb/day) to the PAR System			
		CBOD ₅	TSS	TN	TP
2018	6.193	80	53	252	37
2019	6.809	90	62	129	44
2020	7.170	115	50	144	48
2021	6.551	81	51	363	88
2022	5.395	132	63	275	65
2023	5.075	173	83	254	61
Average:	6.199	112	60	236	57

The reclaimed water constituent loadings applied to the Public Access Reuse System are low and are synonymous with a high-quality product. The public access reuse system is reducing groundwater withdrawals within the service area and providing for beneficial reuse of the high-quality reclaimed water, produced at the Sanford North WRF, throughout the regional area.

2.8.2 Surface Water Discharge System (D-001) - Applied Concentrations/Loadings

The surface water discharge system (D-001) is an existing 1.0 MGD AADF conveyance of highly-treated effluent from the Sanford North WRF to the St. Johns River. The river is classified by the State as Class III fresh waters. Prior to discharge, the tertiary effluent must:

- Be dechlorinated such that the chlorine residual is no greater than 0.01 mg/L prior to discharge to the St. Johns River; and
- Pass through the post-aeration facilities such that the dissolved oxygen is increased to a minimum concentration of 5.0 mg/L prior to discharge
- Meet the water quality constituent limitations outlined in the facility's FDEP Operations Permit

Upon passing through the post-aeration facilities, the reclaimed water/effluent is conveyed to the St. John River through a submerged pipeline (~100 feet long) with two integral diffusers. The discharge occurs at a depth approximately five (5) feet below the water level in the river.

The average annual reclaimed water/effluent nutrient loadings (TN and TP) applied to the St. Johns River, from the Sanford North WRF, for the six (6) year period (2018 - 2023), are synopsized below in Table 2.8-3:

Table 2.8-3: St. Johns River - Nutrient Loadings (2018 - 2023)				
Calendar Year	Flow Rate to the SJ River: D-001 (MGD)	No. of Discharge Days	Nutrient Loadings (lb/yr) to the St. Johns River	
			TN	TP
2018 ¹	0.753	92	7,168	1,519
2019 ¹	0.135	17	1,281	316
2020	0.000	0	0	0
2021	0.021	6	210	45
2022	0.000	0	0	0
2023	0.030	8	526	77
Average 2018 - 2023¹:	0.157	21	1,531	326
Average 2020 - 2023:	0.013	4	184	31
Permit Limit:	1.000	365	19,342	2,345
% of Limit¹ (2018-2023):	15.7%	5.6%	7.9%	13.9%
% of Limit (2020-2023):	1.3%	1.0%	1.0%	1.3%

¹ Flows and constituent loadings to the St. Johns River were high as biological treatment system improvements were occurring and only 50% of the biological treatment system was available to treat the incoming wastewater.

The reclaimed water/effluent loadings applied to the surface water discharge system (St. Johns River) indicate the following:

- The effluent loadings are significantly below the annual limits allowed in the current FDEP Operations Permit (as can be seen in the "Average 2018 - 2023" and "% of Limit (2018- 2023)" rows of the table).

- The effluent being discharged to the St. Johns River (D-001) meets all FDEP-permit loading requirements
- Taking out the data in 2018 and 2019 due to the construction of the biological treatment system improvements (where only 50% of the biological treatment system was available), the effluent loadings to the St. Johns River are extremely low as there have been only fourteen (14) discharge days in the last four years (as can be seen in the "Average 2020 - 2023" and "% of Limit (2020- 2023)" rows of the table).

The Sanford North WRF will continue to produce a high-quality effluent that meets FDEP permit limitations, and minimize organic, solids, and nutrient loadings to the environment.

SECTION 3

FUTURE CONDITIONS

3.1 GENERAL CONDITIONS

As previously discussed in Article 2.1, the Sanford Wastewater Management System encompasses the City of Sanford and unincorporated portions of Seminole County and serves the City's residential, commercial, light industrial and rural areas. Population and corresponding raw wastewater flow projections are based on this service area. The raw wastewater is collected and conveyed via gravity sewers, lift stations and transmission forcemains to the City's two water reclamation facility's (Sanford North WRF and Sanford South WRC) that process all of the wastewater and biosolids generated in the treatment processes.

The growth within the Sanford Wastewater Management System Service Area, has been low to moderate and was expected to continue due to the general desirability of the Central Florida area. As growth continued, the demand for wastewater collection and transmission system, wastewater treatment facility, and reclaimed water distribution system improvements was required. The growth slowed considerably from 2009 - 2015 due to the financial instability in the economy. Residential and commercial construction trends have been in flux during the past couple of years and all signs were indicating that the economy was beginning to recover as residential and commercial construction in the local area had picked up slightly. The residential and commercial construction trends have been in flux during the past few years and all signs were indicating that the economy was beginning to recover as residential construction in the area had picked up slightly. However, the impact of the COVID-19 pandemic, inflation in the economy, supply chain issues, energy issues, a potential impending recession, and the costs of materials, labor and commodities, on the timing of future growth in the area is unknown.

3.2 FUTURE LAND USE

Future land use within the City of Sanford Wastewater Management System Service Area must meet the criteria specified in the City of Sanford's Comprehensive Plan. The Comprehensive Plan requires future land use development incorporate *Best Management Practices (BMPs) and Principles* for resource conservation and minimize the threats to health, safety and welfare.

The Sanford Wastewater Management System Service Area encompasses over 14,000 acres with approximately 1,900 acres of land, 13.2% of the total land within the City, currently available for development. Wetlands are protected from development and are generally conserved. Approximately 1,099 acres of land have been designated as resource protection lands and will remain unchanged.



New growth is expected to occur during the 20-year planning horizon, as the economy recovers, particularly in the south, southeast and eastern areas of the Sanford Wastewater Management System service area based on the following factors:

- Substantial vacant land available for development
- Expansion of the Orlando-Sanford International (OSI) Airport
- Steady population growth experienced in the area prior to the economic recession
- Accessibility to Orlando, attractions, nearby employment centers, and the beaches
- Various road and utility improvements within the greater Sanford area

3.3 WASTEWATER FLOW PROJECTIONS

Average daily wastewater flow projections (AADF) were generated for the Sanford Wastewater Management System Service Area based on the following assumptions:

Table 3.3-1: Wastewater Flow Projection Assumptions	
Flow Projection Assumptions	Values
Average per capita wastewater flow	100 gallons/capita-day
Population Density	2.0 capita/dwelling
Anticipated increase in wastewater flows through Design Year 2025	2.00%
Anticipated increase in wastewater flows after Design Year 2026 - 2030	1.75%
Anticipated increase in wastewater flows after Design Year 2031 - 2035	1.50%
Anticipated increase in wastewater flows after Design Year 2036 - 2040	1.25%
Anticipated increase in wastewater flows after Design Year 2041 - 2045	1.00%

Wastewater flow projections for the Sanford Wastewater Management System Service Area are presented below in a tabular format in Table 3.3-2. The projected raw wastewater flows are anticipated to increase to approximately 10.398 MGD AADF in Calendar Year 2045 based on the flow projection assumptions set forth herein and in the City's annual Capacity Analysis Report update.

Table 3.3-2: Sanford Wastewater Management System - Wastewater Flow Projections¹			
Design Year	Raw Wastewater Flow Projections (MGD AADF)	3-Month Maximum Flow Rate (MGD)²	Monthly Maximum Flow Rate (MGD)³
2025	7.855	9.552	10.321
2030	8.588	10.443	11.285
2035	9.274	11.277	12.186
2040	9.893	12.030	12.999
2045	10.398	12.644	13.663

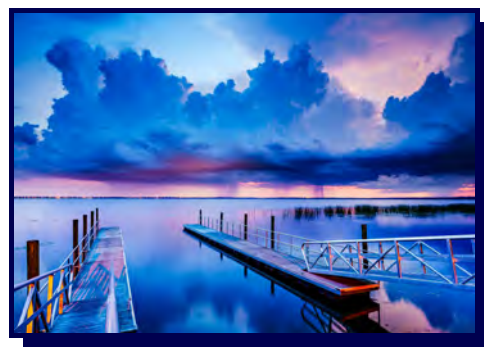
¹ Wastewater flow projections for the entire Sanford Wastewater Management System Service Area with treatment of the raw wastewater by both the Sanford North WRF and Sanford South WRC (uneven split between the two facilities as the entire system hydraulically floats based on pressure conditions and location of the wastewater generated).

² 3-month Maximum Flow Rate = $1.216 \times \text{AADF}$ (Based on analysis of data from 2018 - 2023)

³ Maximum Monthly Flow Rate = $1.314 \times \text{AADF}$ (Based on analysis of data from 2018 - 2023)

It is anticipated that the Sanford South WRC will be expanded in the ten (10) year planning period, if sustained growth continues in the area, to an FDEP-permitted treatment capacity of 6.0 MGD AADF. This will increase the Sanford Wastewater Management System overall wastewater treatment capacity to 13.30 MGD AADF. The projected wastewater flow in Calendar Year (CY) 2045 is anticipated to be approximately 21.8% below the FDEP-permitted capacity of the Sanford Wastewater Management System (13.3 MGD AADF following capacity expansion).

The average daily wastewater flow projections indicate a raw wastewater annual average daily flow (AADF) of 10.297 MGD in Design Year 2044 (20-year planning horizon), or 77.4% of the overall treatment capacity of the City's two treatment facility's. This will leave an available AADF treatment capacity of 3.003 MGD for future raw wastewater flows beyond Calendar Year 2044. It is anticipated, over the 20-year planning horizon, that:



- Infiltration/inflow (I/I) reduction projects (slip-lining of pipes, pipe replacement, manhole and lift station wetwell rehabilitation) will be completed to reduce the raw wastewater flow being conveyed to the treatment facility's.
- Additional treatment capacity improvements or treatment processes that increase capacity without constructing additional tankage will be evaluated and implemented at the treatment facility if the actual raw wastewater flows increase as projected and if necessary.

Therefore, based on the City's future FDEP-permitted capacity of 13.3 MGD AADF (following expansion of the Sanford South WRC), ***the Sanford North WRF treatment capacity is sufficient for the upcoming 20-Year planning horizon.***

SECTION 4

CAPITAL IMPROVEMENTS PLAN (CIP)

4.1 GENERAL

The primary objectives of the Sanford North WRF management and operations staff are:

- Advanced treatment of the raw wastewater received at the Sanford North WRF
- Production of a high-quality product that meets all regulatory requirements and AWT standards
- Sustainable operations and management
- Cost-effective treatment of the raw wastewater and distribution of the reclaimed water
- Beneficial reuse of the high-quality reclaimed produced through slow-rate, public and restricted access spray irrigation



The Sanford North WRF was originally commissioned in the early 1960's and serves the City of Sanford and unincorporated portions of Seminole County. Over the last fifty (50) years, and numerous capital improvements projects, the facility is classified as a 7.30 MGD AADF Advanced Wastewater Treatment plus Filtration Facility (Category I, Class A), utilizing the IFAS BNR treatment process secondary clarification, tertiary filtration, and high-level disinfection, and meets all Class I Reliability criteria.

Some of the facility infrastructure is aging and will need replacement over the 20-year planning period (2024 - 2044). Likewise, treatment efficiency and process/reliability improvements will also be required to meet future regulatory requirements and ensure long-term sustainability of the treatment facility and Utility.



4.2 SANFORD NORTH WRF CAPITAL IMPROVEMENTS PLAN (CIP)

Sanford North WRF capital improvements projects are evaluated on an annual basis, at the project management level, to ensure the efficient, long-term, and sustainable operation of the treatment facility. The following Sanford North WRF CIP infrastructure projects, project costs, and construction start/completion dates are provided below in Table 4.2-1 in accordance with the Clean Waterways Act requirements:

Table 4.2-1: Sanford North WRF - Capital Improvements Plan (CIP) Infrastructure Projects				
CIP Project No.	CIP Project Description	Estimated Project Cost	Construction Time Frame	
			Start	Completion
1	Tertiary Filtration System Improvements	\$5,000,000	2023	2024
2	Flow Equalization Basins Improvements	\$9,300,000	2024	2026
3	Actiflo System and Master Lift Station Rehabilitation	\$3,500,000	2024	2026
4	Electrical System Improvements	\$6,500,000	2025	2027
5	Rehabilitation of Gravity Thickeners	\$700,000	2025	2025
6	Security/Safety System Improvements	\$2,300,000	2025	2026
7	Operations Building/Internal Roadway Improvements	\$4,000,000	2025	2027
8	5.0 MG Reclaimed Water Ground Storage Tank	\$7,000,000	2027	2028
9	Transfer Pump Station Replacement	\$4,000,000	2027	2028
10	New Volute Thickening System	\$1,500,000	2027	2027

APPENDIX A

SANFORD NORTH WRF:
FDEP OPERATIONS PERMIT (FL0020141)



JANUARY 2024



FLORIDA DEPARTMENT OF Environmental Protection

Central District
3319 Maguire Blvd, Ste 232
Orlando, FL 32803-3767
DEP_CD@FloridaDep.gov

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

In the Matter of an
Application for Permit by:

City of Sanford
Bilal Iftikhar, Public Works/Utility Director
300 N Park Ave
Sanford, Florida 32771-1244
bilal.iftikhar@sanfordfl.gov

File Number FL0020141-020-DW1P
Seminole County
Sanford/North WWTF

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0020141 to operate the Sanford/North Wastewater Reclamation Facility, issued under Chapter 403, Florida Statutes.

Monitoring requirements under this permit are effective on **December 1, 2020**. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes

- during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
 - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
 - (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
 - (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
 - (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition 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, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a), F.A.C.

The failure 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, F.S., or to intervene in this proceeding and participate as a party to it. 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, F.A.C. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point-of-entry.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of

General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (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 must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Aaron Watkins, Director
Central District

Attachment(s):

Permit, DMR, and Statement of Basis

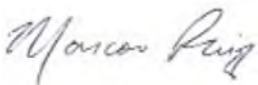
CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

DEP: Dennise Judy, David Smicherko,

FILING AND ACKNOWLEDGMENT

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



Clerk

October 6, 2020

Date



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

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

STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE:
City of Sanford

RESPONSIBLE OFFICIAL:
Bilal Iftikhar, P.E., Public Works/Utility Director
300 N Park Ave
Sanford, Florida 32771- 1244
(407) 688-5085
bilal.iftikhar@sanfordfl.gov

PERMIT NUMBER: FL0020141 (Major)
FILE NUMBER: FL0020141-020-DW1P
ISSUANCE DATE: October 6, 2020
EFFECTIVE DATE: October 6, 2020
EXPIRATION DATE: October 5, 2025

FACILITY:
Sanford/North WRF
1201 West Seminole Boulevard
Sanford, FL 32771
Seminole County
Latitude: 28°48' 57.16" N Longitude: 81°16' 42.01" 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.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. This permit is accompanied by an Administrative Order, pursuant to paragraphs 403.088(2)(e) and (f), Florida Statutes. Compliance with Administrative Order, AO-CD-20-WW-141, is a specific requirement of 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:

This is an existing 7.3 MGD annual average daily flow (AADF) permitted capacity plug flow activated sludge advanced domestic wastewater treatment plant. The treatment system includes flow equalization, influent screening, grit removal, aeration, an Integrated Fixed-Film Activated Sludge Process (IFAS) Biological Nutrient Removal (BNR) system with four treatment trains each consisting of primary anoxic aerobic, deoxygenation, secondary anoxic and reaeration basins. with secondary clarification, chemical feed, filtration, and chlorination, followed by dechlorination prior to surface water discharge (back-up disposal system).

The biosolids management system consists of sludge thickening, the ThermAer Process to provide Class A stabilization, followed by dewatering (screw press) and solar drying (in a greenhouse).

There are two existing Actiflow treatment trains on site, with a total permitted capacity of 8.0 MGD, which are used to treat supplemental surface water from Lake Monroe, prior to chlorination, for public access reuse.

The wastewater treatment system provides reclaimed water to the City's existing reuse service area with a back-up discharge to the St. Johns River downstream of Lake Monroe. The permitted capacity of the facility is 7.3 MGD AADF.

This permit authorizes installation of a new 18 MGD disc filtration system and completion of the biosolids management system. All methods of biosolids handling are described in Section II of this permit.

PERMITTEE: City of Sanford
FACILITY: Sanford/North WWTF

PERMIT NUMBER: FL0020141 (Major)
EXPIRATION DATE: October 5, 2025

REUSE OR DISPOSAL:

Surface Water Discharge D-001: An existing 1.0 MGD annual average daily flow discharge to the St. Johns River, Class III fresh waters, (WBID# 2893C) which is approximately 100 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 28°50' 14" N, longitude 81°19' 26" W.

Land Application R-001: An existing 15.414 MGD AADF permitted capacity slow-rate public access reuse consisting of irrigation of 1800 acres at Site 10 (2.84 MGD AADF, permitted capacity) and irrigation within the Service Area shown on the attached map, used by both the North and South WRFs. Reuse sites are listed in the attached table, including interconnections with Volusia County and Lake Mary. The Mill Creek Pond System is authorized to store, disinfect, and return reclaimed water to the PAR system.

The following surface water sources may be used to augment the supply of reclaimed water: Lake Monroe, sent through the Actiflo units and then to the head of the filters for high level disinfection.

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 31, of this permit and the Administrative Order (AO) CD-20-WW-141.

PERMITTEE: City of Sanford
FACILITY: Sanford/North WWTF

PERMIT NUMBER: FL0020141 (Major)
EXPIRATION DATE: October 5, 2025

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

- During the period beginning on the effective date and lasting through the expiration date of this permit, except as provided for in the Administrative Order, the permittee is authorized to discharge effluent from Outfall D-001 to the St. Johns River. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.8. :

Parameter	Units	Max./Min	Effluent Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (To river)	MGD	Max Max	1.0 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	10.0 12.5 15.0 20.0	Annual Average Monthly Average Weekly Average Single Sample	Daily, when discharging	Grab	EFD-1	See I.A.6
Solids, Total Suspended	mg/L	Max Max Max Max	10.0 12.5 15.0 20.0	Annual Average Monthly Average Weekly Average Single Sample	Daily, when discharging	Grab	EFD-1	See I.A.6
Coliform, Fecal	#/100mL	Max Max Max	200 200 800	Monthly Geo. Mean Annual Average Single Sample	Daily, when discharging	Grab	EFA-1	See I.A.7
E.coli	#/100mL	Max Max	126 410	Monthly Geo. Mean 90th percentile	Daily, when discharging	Grab	EFA-1	See I.A.7 and I.A.8
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Daily, when discharging	Grab	EFD-1	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	Continuous	Meter	EFA-1	See I.A.3 and I.A.9
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	Daily, when discharging	Grab	EFD-1	
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Annually, During any 12-month period with a discharge	4 grabs/24 hr.period	EFD-1	See I.A.10
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	Annually, During any 12-month period with a discharge	4 grabs/24 hr.period	EFD-1	See I.A.10
Nitrogen, Total	mg/L	Max Max Max Max	6.0 7.5 9.0 12.0	Annual Average Monthly Average Weekly Average Single Sample	Daily, when discharging	Grab	EFD-1	
Nitrogen, Ammonia, Total (as N)	mg/L	Max Max Max Max	1.0 1.25 1.5 2.0	Annual Average Monthly Average Weekly Average Single Sample	Daily, when discharging	Grab	EFD-1	

PERMITTEE: City of Sanford
FACILITY: Sanford/North WWTF

PERMIT NUMBER: FL0020141 (Major)
EXPIRATION DATE: October 5, 2025

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max./Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Phosphorus, Total (as P)	mg/L	Max Max Max Max	1.0 1.25 1.5 2.0	Annual Average Monthly Average Weekly Average Single Sample	Daily, when discharging	Grab	EFD-1	
Nitrogen, Total	lb/yr	Max	19342	Annual Total	Monthly, when discharging	Calculated	EFD-1	
Nitrogen, Total	lb/mth	Max	Report	Monthly Total	Monthly, when discharging	Calculated	EFD-1	
Phosphorus, Total (as P)	lb/yr	Max	2345	Annual Total	Monthly, when discharging	Calculated	EFD-1	
Phosphorus, Total (as P)	lb/mth	Max	Report	Monthly Total	Monthly, when discharging	Calculated	EFD-1	
Stream Stage	ft	Min	1.2	Single Sample	Daily, when discharging	Meter	OTH-1	
Rainfall	in	Max	Report	Single Sample	Daily, when discharging	Meter	OTH-2	
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Daily, when discharging	Meter	EFD-1	
Chlorodibromomethane	ug/kg	Max	34.0	Annual Average	Monthly, when discharging	Grab	EFD-1	
Cyanide, Total (as CN)	ug/L	Max	5.2	Single Sample	Monthly, when discharging	Grab	EFD-1	
Dichlorobromomethane	ug/kg	Max	22.0	Annual Average	Monthly, when discharging	Grab	EFD-1	
Hardness, Total (as CaCO3)	mg/L	Max	Report	Single Sample	Monthly, when discharging	Grab	EFD-1	
Mercury, Total Recoverable	ug/L	Max	Report	Single Sample	Monthly, when discharging	Grab	EFD-1	
Phenolic Compounds, Total Recoverable	ug/L	Max	1.0	Single Sample	Monthly, when discharging	Grab	EFD-1	
Silver, Total Recoverable	ug/L	Max	Report	Single Sample	Monthly, when discharging	Grab	EFD-1	

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

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter to St. Johns River discharge, D001
EFD-1	Effluent after dechlorination
EFA-1	Chlorine contact chamber effluent
OTH-1	Ultrasonic gauging station for measuring river levels
OTH-2	Weather station rain gauge

PERMITTEE: City of Sanford
FACILITY: Sanford/North WWTF

PERMIT NUMBER: FL0020141 (Major)
EXPIRATION DATE: October 5, 2025

3. Hourly measurement of total residual chlorine for disinfection during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
5. The discharge shall not contain components that, alone or in combination with other substances or in combination with other components of the discharge:
 - a. Settle to form putrescent deposits or otherwise create a nuisance; or
 - b. Float as debris, scum, oil, or other matter in such amounts as to form nuisances; or
 - c. Produce color, odor, taste, turbidity, or other conditions in such degree as to create a nuisance; or
 - d. Are acutely toxic; or
 - e. Are present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant, locally occurring, wildlife or aquatic species, unless specific standards are established for such components in subsection 62-302.500(2) or Rule 62-302.530, F.A.C.; or
 - f. Pose a serious danger to the public health, safety, or welfare.[62-302.500(1)(a)]
6. In accordance with subsections 62-600.420(1) and (2), F.A.C., the monthly average effluent CBOD5 and TSS concentrations shall not exceed 15% of their respective influent values (i.e., 85% removal). [62-600.420(1) and (2)]
7. The effluent limitations for the monthly geometric means for fecal coliform and E. coli are only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric means shall be calculated and reported on the Discharge Monitoring Report, but shall not be used to determine compliance with the limitations for the monthly geometric means. The monthly geometric mean for fecal coliform shall be used to calculate the annual average. All other fecal coliform and E. coli effluent limitations included in permit condition I.A.1 apply regardless of the number of values reported. [62-600.440(5)(b)] [62-302.530]
8. To report the "90th percentile,"
 - a. Place the bacteria results in ascending order (from lowest to highest value) and assign each sample a number, 1 for the lowest value.
 - b. Multiply the total number of samples by 0.9 to determine the 90th percentile level.
 - c. Report the value of the sample that corresponds to the 90th percentile level (e.g., 10 samples x 0.9 = 9, report the value of the 9th sample). If the 90th percentile level is not a whole number, rounding or interpolation should be used to determine the 90th percentile. When rounding, round down to the nearest whole number if the decimal is 0.4 or lower, and round up to the nearest whole number if the decimal is 0.5 or higher (e.g., 12 samples x 0.9 = 10.8, report the value of the 11th sample if rounding).[62-600.440(5)(a)3] [62-302.530]
9. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-600.440(5)(c), (6)(b), and (7)(c)]
10. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-001.
 - a. Effluent Limitation
 - (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. [Rules 62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241, F.A.C.]

PERMITTEE: City of Sanford
FACILITY: Sanford/North WWTF

PERMIT NUMBER: FL0020141 (Major)
EXPIRATION DATE: October 5, 2025

- b. Monitoring Frequency
 - (1) Routine toxicity tests shall be conducted annually, the first starting in accordance with the existing schedule and lasting for the duration of this permit.
- c. Sampling Requirements
 - (1) Routine tests shall be conducted on four separate grab samples collected at evenly-spaced (6-hr) intervals over a 24-hour period. The four grab samples shall be used in eight bioassays (four bioassays for each species) and shall represent one test. If the duration of the discharge is less than 24-hours, the duration of discharge shall be documented on the chain of custody.
 - (2) For additional follow-up tests, the first test shall be conducted on four separate grab samples collected at evenly-spaced (6-hr) intervals over a 24-hour period. The four grab samples shall be used in four separate bioassays for each species that failed the routine test. The four grab samples represent one test. The second follow-up test shall be run on a single grab sample collected on the day and time when the greatest toxicity was identified in the routine or first additional follow-up test.
- d. Test Requirements
 - (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 75%, 50%, 25%, and 12.5%** effluent.
 - (2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, ***Ceriodaphnia dubia***, and the bannerfin shiner, ***Cyprinella leedsi***, concurrently.
 - (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms**, 5th Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.
 - (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.
- e. Quality Assurance Requirements
 - (1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly acute toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
 - (2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.
 - (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
 - (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.
- f. Reporting Requirements
 - (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
 - (a) Routine Test Results: If an LC50 >100% effluent occurs in all four separate grab sample tests for the test species, ">100%" shall be entered on the DMR for that test species. If in any of the four separate grab sample tests for the test species an LC50 <100% effluent occurs, the lowest calculated LC50 effluent concentration shall be entered on the DMR for that test species.
 - (b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value shall be entered on the DMR for that test species.

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- (2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.
- (3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and mailed within 30 days after the last day of the second valid additional follow-up test.
- (4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.
- (5) The same bioassay data shall not be reported as the results of more than one test.
- (6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Central District Office
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767

g. Test Failures

- (1) A test fails when the test results do not meet the limits in 10.a.(1).
- (2) Additional Follow-up Tests:
 - (a) If a routine test does not meet the acute toxicity limitation in 10.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 10.d.
 - (b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
 - (c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012.
- (3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
 - (a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
 - (b) The Department shall review and approve the plan before initiation.
 - (c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
 - (d) Progress reports shall be submitted quarterly to the Department at the address above.
 - (e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 10.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 10.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.
 - (f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 10.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.
- (4) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

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10. No discharge shall be permitted when the river stage is below 1.2 feet above Mean Sea Level (MSL) unless there has been total rainfall of three (3) inches or more within the preceding four (4) days. The USGS maintains current information on the river level via their ultrasonic gauging station, No. 02234500 (the St. Johns River near Sanford), which can be accessed by the operator on the Internet, or by telephone, and must be included on the Discharge Monitoring Report for each day of discharge. Rainfall may be measured either at the Sanford WWTF or the Sanford Airport. Rainfall shall be measured/recorded at the same time each day. [62-620.320(6)]
11. Under special conditions discharge may be made for up to five (5) days where the above conditions (as noted in Condition I.A.10.) are not met. Any additional discharge, beyond five days, will be permitted only upon specific approval of the Department on a case-by-case basis. [62-620.320(6)]
12. The Department has adopted a Total Maximum Daily Load (TMDL) for this segment of the St. Johns River. The Waste Load Allocation (WLA) for this facility is 19,342 lbs/year Total Nitrogen (TN) and 2,345 lbs/year Total Phosphorus (TP), based on a calendar year (Jan.-Dec.).
13. For facilities that discharge to surface waters, **effluent testing shall be conducted** for each outfall in accordance with the instructions provided in Sections 3.A.12., 13., and 14. of Application Form 2A. **A minimum of three samples shall be taken within four and one-half years prior to the date of the permit application and must be representative of the seasonal variation in the discharge from each outfall.** Results of each sample shall be tabulated on the pages of the form and submitted to the Department for review. A summary of the individual scans shall be submitted on Form 2A, or another approved format, with the request for permit renewal. [62-620.335(1) and (2)]

B. Reuse and Land Application Systems

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to supplement reclaimed water with surface water and 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.C.8.:

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max. /Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (To PAR)	MGD	Max Max	15.414 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-3	See I.B.4
Flow (To Site 10)	MGD	Max Max	2.84 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-2	
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	5 Days/Week	24-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Daily; 24 hours	Grab	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	Continuous	Meter	EFA-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	Daily; 24 hours	Grab	EFA-1	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	Daily; 24 hours	Calculated	EFA-1	See I.B.5
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Meter	EFA-1	See I.B.3

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Parameter	Units	Max. /Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-1	See I.B.6 and I.B.8
Giardia	cysts/100 L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.B.9
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	Bi-annually; every 2 years	Grab	EFA-1	See I.B.9
Flow (from Lake Monroe)	MGD	Max Max	Report Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-4	
Nitrogen, Total	mg/L	Max Max	Report 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	

- Reclaimed water 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-3	Flow meter to Public Access Reuse
FLW-2	Flow meter to Site 10
EFA-1	Chlorine contact chamber effluent
EFB-1	Filter effluent prior to chlorination
FLW-4	Flow meter for supplemental surface water from Lake Monroe

- Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. [62-600.660(1)]
- A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
- 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(6)(a)]
- 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(6)(b)][62-610.460(2)][62-610.463(2)]
- 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 reject storage for subsequent additional treatment or disinfection. [62-610.320(6) and 62-610.463(2)]
- Instruments for continuous on-line monitoring of total residual chlorine and TSS shall be equipped with an automated data logging or recording device. [62-610.463(2)]

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9. Intervals between sampling for Giardia and Cryptosporidium shall not exceed two years. [62-610.472(3)(d)]

C. Other Limitations and Monitoring and Reporting Requirements

1. 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.C.8.:

Parameter	Units	Max./Min	Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (total through plant)	MGD	Max Max Max	7.3 Report Report	Annual Average Monthly Average 3-Month Rolling Average	Continuous	Recording Flow Meter with Totalizer	INF-2	See I.C.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	INF-2	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	5 Days/Week	24-hr FPC	INF-1	See I.C.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	5 Days/Week	24-hr FPC	INF-1	See I.C.3

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

Monitoring Site Number	Description of Monitoring Site
INF-2	Influent flow meter
INF-1	Raw influent to headworks

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. [62-600.660(4)(a)]
4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
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 62-600, 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 <https://floridadep.gov/dear/quality-assurance/content/quality-assurance-resources>. 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;

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- b. 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
- c. 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 samples which are required by this permit. [62-600.650(2)]
8. **Monitoring requirements under this permit are effective on December 1, 2020.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, 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, 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	Submit by
Monthly	first day of month - last day of month	28 th day of following month
Once Every Two Months	January 1 - February 28/29 March 1 - April 30 May 1 - June 30 July 1 - August 31 September 1 - October 31 November 1 - December 31	March 28 May 28 July 28 September 28 November 28 January 28
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 shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <https://www.fldeportal.com/go/>, unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation.

[62-620.610(18)][62-600.680(1)]

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, total coliform, color, odor, and residual disinfectants). These monitoring results shall be reported

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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 with the signed DMR in lieu of performing the analysis. When such a certification is submitted with the DMR, monitoring not required this period should be noted on the DMR. The annual reclaimed water or effluent analysis report, and certification if applicable, 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 January 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. [62-600.660(2) and (3)(d)][62-600.680(2)][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 DEP_CD@FloridaDEP.gov (preferred) or to the address specified below:

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

Phone Number - (407)897-4100

[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

A. Basic Requirements

1. Biosolids generated by this facility may be transferred to Shelleys BTF, distributed and marketed (after completion of the Class A stabilization system and registration as a fertilizer), or disposed of in a Class I solid waste landfill. Transferring biosolids to an alternative biosolids treatment facility does not require a permit modification. However, use of an alternative 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)]

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3. Biosolids quantities shall be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report for Monitoring Group RMP-Q in accordance with Condition I.C.8.

			Biosolids Limitation		Monitoring Requirements			
Parameter	Units	Max./Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Received)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Distributed & Marketed in FL)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Distributed & Marketed outside FL)	dry tons	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, based on weight or volume and estimated percent solids

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)]

B. Treatment and Monitoring Requirements

- The permittee is authorized to produce Class A and AA biosolids after the new biosolids management system is complete and placed into operation. No land application of stabilized biosolids shall be allowed unless a permitted land application site is identified and approved for use or proof of fertilizer certification is submitted, in accordance with conditions in Section II.C of this permit.
- The permittee shall achieve Class A pathogen reduction by meeting the pathogen reduction requirements in section 503.32(a)(7) (Use of PFRP (Processes to Further Reduce Pathogens)-Thermophilic Aerobic Digestion) of Title 40 CFR Part 503. [62-640.600(1)(a)]
- The permittee shall achieve vector attraction reduction for Class A or B biosolids by meeting one of the vector attraction reduction requirements as follows: Section 503.33(b)(1) (Reduce the mass of volatile solids by a minimum of 38%), or Section 503.33(b)(5) (Use aerobic processes at greater than 40°C (average temperatures 45°C) for 14 days or longer (e.g., during biosolids composting), or Section 503.33(b)(7) (Reduce moisture content of biosolids that do not contain unstabilized solids from primary treatment to at least 75 % solids) of Title 40 CFR Part 503. [62-640.600(2)(a)]

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4. Time and temperature (a mean cell residence time of 10 days at 55°C to 60°C) in the two-stage reactor process shall be routinely monitored to demonstrate compliance with pathogen reduction requirements specified in Rule 62-640.600, F.A.C. [62-640.650(3)(a)2]
5. One of the following Vector Attraction Reductions (VAR) options may be used and shall be routinely monitored to demonstrate compliance with VAR requirements specified in Rule 62-640.600, F.A.C.: Percent (%) Solids after stabilization and solar drying for Option 7, time and temp for Option 5, and % volatile solids before and after treatment. [62-640.650(3)(a)2]
6. Treatment of liquid biosolids or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of biosolids or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. [62-640.400(7)]
7. Class A biosolids shall comply with the limits and be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report in accordance with Permit Condition I.C.8. Biosolids shall not be land applied if a single sample result for any parameter exceeds the following:

Parameter	Units	Max. /Min	Biosolids Limitation		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type***	Monitoring Site Number	
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Single Sample	Annually	Composite	RMP-A	
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Single Sample	Annually	Composite	RMP-A	
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Single Sample	Annually	Composite	RMP-A	
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	Annually	Composite	RMP-A	
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	85.0	Single Sample	Annually	Composite	RMP-A	
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	4300.0	Single Sample	Annually	Composite	RMP-A	
Lead, Dry Weight, Sludge	mg/kg	Max	840.0	Single Sample	Annually	Composite	RMP-A	
Mercury, Dry Weight, Sludge	mg/kg	Max	57.0	Single Sample	Annually	Composite	RMP-A	
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	Annually	Composite	RMP-A	
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	Annually	Composite	RMP-A	
Selenium Sludge Solid	mg/kg	Max	100.0	Single Sample	Annually	Composite	RMP-A	
Zinc, Dry Weight, Sludge	mg/kg	Max	7500.0	Single Sample	Annually	Composite	RMP-A	
pH	s.u.	Max	Report	Single Sample	Annually	Grab	RMP-A	
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	Annually	Composite	RMP-A	
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	Annually	Grab	RMP-A	
Salmonella Sludge	MPN/4g	Max	3.0	Single Sample	Annually	Grab	RMP-A	

*Either the fecal coliform limit or Salmonella sp. limit must be met.

***Composite samples shall be collected in accordance with the Standard Operating Procedure (SOP) to ensure that a representative sample is analyzed.

[62-640.650(3)(a)(3) and 62-640.700(5)(a)]

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8. Class AA biosolids shall comply with the limits and be monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report in accordance with Permit Condition I.C.8. Biosolids shall not be distributed and marketed or land applied if a single sample result or the monthly average of sample results for any parameter exceeds the following Class AA parameter concentrations:

Parameter	Units	Max./Min	Biosolids Limitation		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type***	Monitoring Site Number	
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA	
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA	
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Monthly Average	Monthly	Composite	RMP-AA	
Arsenic Total, Dry Weight, Sludge	mg/kg	Max Max	41.0 75.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max Max	39.0 85.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max Max	1500.0 4300.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Lead, Dry Weight, Sludge	mg/kg	Max Max	300.0 840.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Mercury, Dry Weight, Sludge	mg/kg	Max Max	17.0 57.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	Monthly	Composite	RMP-AA	
Nickel, Dry Weight, Sludge	mg/kg	Max Max	420.0 420.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Selenium Sludge Solid	mg/kg	Max Max	100.0 100.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Zinc, Dry Weight, Sludge	mg/kg	Max Max	2800.0 7500.0	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
pH	s.u.	Max	Report	Single Sample	Monthly	Grab	RMP-AA	
Solids, Total, Sludge, Percent	percent	Max Max	Report Report	Monthly Average Single Sample	Monthly	Composite	RMP-AA	
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	Monthly	Grab	RMP-AA	
Salmonella Sludge	MPN/4 g	Max	3.0	Single Sample	Monthly	Grab	RMP-AA	

*Either the fecal coliform limit or Salmonella sp. limit must be met.

**Note, monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month.

***Composite samples shall be collected in accordance with an approved Standard Operating Procedure (SOP) to ensure that a representative sample is analyzed.

[62-640.650(3)(a)(3), 62-640.700(5)(a), 62-640.700(5)(b) and 62-640.850(4)]

9. Class AA biosolids that are stored for more than 45 days shall be re-sampled for fecal coliform or Salmonella sp. every 90 days. [62-640.650(3)(a)5]
10. Sampling and analysis shall be conducted in accordance with 40 CFR Part 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, August 1989. In cases where conflicts exist between 40 CFR 503.8 and the POTW Sludge Sampling and Analysis Guidance Document, the requirements in 40 CFR Part 503.8 will apply. [62-640.650(3)(a)1]
11. All samples shall be representative and shall be taken after final treatment of the biosolids but before land application or distribution and marketing. [62-640.650(3)(a)5]

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12. Biosolids samples shall be taken at the monitoring site locations listed in Permit Condition II.7 and as described below:

Monitoring Site Number	Description of Monitoring Site
RMP-A	Class A Biosolids
RMP-AA	Class AA Biosolids

C. Distribution and Marketing

1. Biosolids or biosolids products may be distributed and marketed only if the biosolids or biosolids products meet Class AA standards and are either sold or given-away under a Florida fertilizer license or distributed and marketed to a person or entity that will sell or give-away the biosolids or biosolids products under Florida fertilizer license. Biosolids composts that are enrolled and certified under the U.S. Composting Council's Seal of Testing Assurance (USCC STA) program do not have to be sold or given-away under a Florida fertilizer license except if distributed and marketed within the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds. [62-640.850]
2. Within 24 hours of discovering that distributed and marketed biosolids did not meet the Class AA standards, the permittee shall notify the Department and all persons to whom they delivered or distributed and marketed the Class AA biosolids. [62-640.650(6)(g)]
3. The permittee shall make the following information available to users by product labels or other means:
 - a. The fertilizer label required by Florida fertilizer law or the equivalent information required by the USCC STA program;
 - b. The name and address of the facility or person that produced the Class AA biosolids;
 - c. A statement that the biosolids or biosolids product meets the criteria of subsection 62-640.700(5), F.A.C.;
 - d. Recommendation that biosolids be applied at a rate that does not exceed crop or plant nutrient needs and;
 - e. Recommendations on proper storage of the biosolids or biosolids product prior to use. For distributed quantities of biosolids or biosolids products greater than one dry ton, the recommendations shall include that biosolids may not be stored on property for more than seven days unless stored to prevent runoff of biosolids or stormwater that has been in contact with biosolids, violation of the odor prohibition in subsection 62-296.320(2), F.A.C., and vector attraction.

[62-640.850(5)]

D. Disposal

1. 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)]

E. Transfer

1. 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)]
2. The permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

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Source Facility

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

Biosolids Treatment Facility or Treatment Facility

1. Date and time received
2. Amount of biosolids received
3. Name and ID number of source facility
4. Signature of hauler
5. Signature of responsible party at treatment facility

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)]

F. Receipt

1. The permittee shall be responsible for proper treatment, management, and disposition of biosolids accepted from source facilities. [62-640.880(1)(a)]
2. The permittee shall enter into a written agreement with each source facility that it intends to receive biosolids from. The agreement shall address the quality and quantity of the biosolids accepted by the permittee. The agreement shall include a statement, signed by the permittee, as to the availability of sufficient permitted capacity to receive the biosolids from the source facility, and indicating that the permittee will continue to operate in compliance with the requirements of its permit. The agreement shall also address responsibility during transport of biosolids between the facilities. The permittee shall submit a copy of this agreement to the Department's Central District Office at least 30 days before transporting biosolids from the source facility to the permittee. [62-640.880(1)(c)]

III. GROUND WATER REQUIREMENTS

A. Construction Requirements

1. The permittee shall give at least 72-hour notice to the Department's Central District Office, prior to the installation of any monitoring wells. [62-520.600(6)(h)]
2. Before construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location to properly determine monitoring well specifications such as well depth, screen interval, screen slot, and filter pack. [62-520.600(6)(g)]
3. Within 30 days after installation of a monitoring well, the permittee shall submit to the Department's Central District Office well completion reports and soil boring/lithologic logs on the attached DEP Form(s) 62-520.900(3), Monitoring Well Completion Report. [62-520.600(6)(j) and .900(3)]
4. All piezometers and monitoring wells not part of the approved ground water monitoring plan shall be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. [62-532.500(5)]

B. Operational Requirements

1. For the Part III Public Access system, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge shall extend horizontally 100 feet from the application site(s) or to the property boundaries, whichever is less, and vertically to the base of the surficial aquifer. [62-520.200(27)] [62-520.465]

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2. The mixture of reclaimed water and surface water shall enable compliance with ground water standards at the edge of the zone of discharge. [62-610.472(3)]
3. 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)]
4. If the concentration for any constituent listed in Permit Condition III.7. 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 background quality shall be the prevailing standard. [62-520.420(2)]
5. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the monitoring wells identified in Permit Condition III.6., below in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600] [62-610.463]
6. The following monitoring wells shall be sampled for Reuse System R-001.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MWB-1S10	Site 10, #6778	28°44' 49"	81°8' 21"	26	Surficial	Background	Existing
MWC-1	Mayfair Golf Course	28°48' 26"	81°16' 45"	40	Surficial	Compliance	Existing
MWC-10S10	Site 10, #6769	28°45' 3"	81°8' 54"	6	Surficial	Compliance	Existing
MWC-11S10	Site 10, #6768	28°45' 36"	81°9' 9"	8	Surficial	Compliance	Existing
MWC-12S10	Site 10, #6767	28°46' 37"	81°9' 52"	6	Surficial	Compliance	Existing
MWC-13S10	Site 10, #6766	28°46' 20"	81°10' 7"	8	Surficial	Compliance	Existing
MWC-14S10	Site 10	28°45' 4"	81°10' 2"	21	Surficial	Compliance	Existing
MWC-15S10	Site 10	28°45' 42"	81°10' 0"	21	Surficial	Compliance	Existing
MWC-2R	Mayfair Golf Course MW-2 Replacement	28°48' 26"	81°16' 45"	55	Surficial	Compliance	Existing
MWC-3	Mayfair Golf Course	28°48' 26"	81°16' 45"	525	Floridan	Compliance	Existing
MWC-3S10	Site 10, #6776	28°44' 49"	81°8' 34"	25	Surficial	Compliance	Existing
MWC-5S10	Site 10, #6774	28°44' 56"	81°8' 25"	21	Surficial	Compliance	Existing
MWC-6S10	Site 10, #6773	28°45' 2"	81°8' 25"	9	Surficial	Compliance	Existing
MWI-3	Mayfair Golf Course	28°48' 26"	81°16' 45"	40	Surficial	Intermediate	Existing
MWI-7S10	Site 10, #6772	28°44' 59"	81°8' 32"	23	Surficial	Intermediate	Existing

[62-520.600] [62-610.463]

7. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.6.:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	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	6.5-8.5	s.u.	Grab	Quarterly
Turbidity	Report	NTU	Grab	Quarterly
Trihalomethane, Total by summation	80	ug/L	Grab	Quarterly

[62-520.600(11)(b)] [62-600.670] [62-600.650(3)] [62-520.310(5)]

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8. Water levels shall be recorded before evacuating each well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NAVD allowable) at a precision of plus or minus 0.01 foot. [62-520.600(11)(c)] [62-610.463(3)(a)]
9. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210] [62-600.670(3)]
10. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District Office as being more representative of ground water conditions. [62-520.310(5)]
11. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.C.8. [62-520.600(11)(b)] [62-600.670] [62-600.680(1)] [62-620.610(18)]
12. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. [62-520.600(6)(l)]
13. The permittee shall sample the monitoring well MWC-13S10 for the primary and secondary drinking water parameters included in Rules 62-550.310 and 62-550.320, F.A.C., (except for asbestos and all parameters in Table 5 of Chapter 62-550, F.A.C., other than Di(2-ethylhexyl) adipate and Di(2-ethylhexyl) phthalate). Results of this sampling shall be submitted to the Department's Central District Office with the application for permit renewal. Sampling shall occur no sooner than 180 days before submittal of the renewal application. [62-520.600(5)(b)]

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
Business, Commercial and Industrial Parks
Edible Crop Irrigation
Farms and Other Agricultural Activities
Golf Courses
Industrial Uses (Cooling Water, Process Water, and Wash Water at Industrial Facilities)
Other Landscape Irrigation
Residential Developments
Retail Nurseries, Ferneries, and Sod Farms
Universities
Wholesale Nurseries, Ferneries, and Sod Farms

[62-620.630(10)(a)]

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	Reuse Service Area, as listed on the attached table	General Service Area	12.55	0
PAA-2	Site 10	Farms and Other Agricultural Activities	2.84	0
Total			15.39	0

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

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3. The permittee shall maintain an inventory of commercial agricultural operations using reclaimed water to irrigate edible crops. An updated inventory shall be submitted to the Central District Office at least 30 days prior to addition of an agricultural operation and with the annual reuse report required by Permit Condition I.C.8. *[62-610.475(5) and 62-610.870(3)]*
4. 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]*
5. Cross-connections to the potable water system are prohibited. *[62-610.469(7)]*
6. 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)]*
7. 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)]*
8. 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:
 - a. Immediately discontinue potable water and/or reclaimed water service to the affected area if an actual cross-connection is discovered.
 - b. If the potable water system is contaminated, clear the potable water lines.
 - c. Eliminate the cross-connection and install a backflow prevention device as required by the Rule 62-555.360.F.A.C.
 - d. Test the affected area for other possible cross-connections.
 - e. Within 24 hours, notify the Department's Central District Office's domestic wastewater and drinking water programs.
 - f. 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.*[62-555.360][62-620.610(20)]*
9. 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)]*
10. 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)]*
11. 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)]*

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12. Reclaimed water shall not be used to fill swimming pools, hot tubs, or wading pools. [62-610.469(4)]
13. 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)]
14. 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)]
15. 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)]
16. 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]
17. 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)]
18. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.414(8)]
19. 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)]

Supplemental Water Supplies - Surface Water

20. The mixture of reclaimed water and surface water shall not harm vegetation or crops grown in the reuse system. [62-610.472(3)]
21. A one-way flow device shall be provided on each surface water supply line to prevent backflow of reclaimed water into the surface water or into the stormwater treatment facilities. [62-610.472(3)]
22. The supplemental water supply pipes and appurtenances shall be color coded and marked to differentiate them from the reclaimed water and potable water facilities. [62-610.472(3)]
23. Facilities used to connect supplemental water supplies into the reclaimed water distribution system shall be located and documented in the record drawings for the reuse system. [62-610.472(7)]

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 one or more 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 12 hours/day for 7 days/week. The lead/chief operator must be a Class A operator, or higher. The reduced staffing is allowed so long as all automatic monitoring, diversion, and notification equipment is fully functional and in operation.

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

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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)]

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

1. An updated capacity analysis report shall be submitted to the Department annually by March 30 of each year. The updated capacity analysis report shall be prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
2. 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 this permit for at least three years from the date the report was prepared;
 - c. Records of all data, including reports and documents, used to complete the application for this 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 wastewater facility permit;
 - f. Copies of the current operation and maintenance manuals for the wastewater facility and the collection/transmission systems owned or operated by the wastewater facility permittee as required by Chapters 62-600 and 62-604, F.A.C.;
 - g. A copy of any required record drawings for the wastewater facility and the collection/transmission systems owned or operated by the wastewater facility permittee;
 - 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, 62-604.500, 62-602.650, 62-640.650(4)]

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VI. SCHEDULES

1. In accordance with section 403.088(2)(e) and (f), Florida Statutes, a compliance schedule for this facility is contained in Administrative Order AO-CD-20-141 which is hereby incorporated by reference.
2. **As required by Condition I.A.13. of this permit, effluent testing shall be conducted for each outfall in accordance with the instructions provided in Sections 3.A.12., 13., and 14. of the application form. A minimum of three samples shall be taken within four and one-half years prior to the date of the permit application and must be representative of the seasonal variation in the discharge from each outfall. Reporting of monitoring results shall be done in accordance with Condition I.A.13.**
3. The following improvement actions shall be completed according to the following schedule:

Improvement Action	Completion Date
1. Complete the biosolids management system and submit an SOP for composite sampling.	Prior to placing into operation
2. Revise permit to include permitted land application sites for Class A biosolids	Prior to land application without a fertilizer certification
3. Submit documents required by Rule 62-640.850(3), FAC, for distribution and marketing or land applying as a fertilizer product.	Prior to Distribution and Marketing or land applying

[62-620.320(6)]

4. Prior to placing the modifications to existing facilities into operation or any individual unit processes into operation, for any purpose other than testing for leaks and equipment operation, the permittee shall complete and submit to the Department DEP Form 62-620.910(12), Notification of Completion of Construction for Wastewater Facilities or Activities. [62-620.410(7) and 62-620.630(2)]
5. The modified portions of the existing Part III reuse system shall not be placed in service for any purpose without written approval from the Department. For projects identified in the permit as being constructed in phases, written permission is only required for the first phase. Application for approval shall be made to the Department on DEP Form 62-610.300(4)(a)3., Application for Permission to Place a Public Access Reuse System in Operation. [62-610.800(7)]
6. Within six months after a facility is placed in operation, the permittee shall provide written certification to the Department on Form 62-620.910(13) that record drawings pursuant to Chapter 62-620, F.A.C., and that an operation and maintenance manual pursuant to Chapters 62-600 and 62-610, F.A.C., as applicable, are available at the location specified on the form. [62-620.410(6) and 62-620.630(7)]
7. 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)]

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VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

A. Implementation Requirements

1. The permittee shall function as the Control Authority and shall be responsible for the performance of all pretreatment program requirements contained in Chapter 62-625, F.A.C. The permittee shall be subject to enforcement actions, penalties, and other remedies by the Department or other appropriate parties. The permittee shall implement and enforce its Approved Pretreatment Program. The permittee's Approved Pretreatment Program is hereby made an enforceable condition of this permit. The Department may initiate enforcement action against an industrial user for noncompliance with applicable standards and requirements. *[62-625.500]*
2. The permittee shall enforce the requirements promulgated under Sections 307(b), 307(c), 307(d), and 402(b) of the Act. The permittee shall cause industrial users subject to Federal Categorical Standards to achieve compliance no later than the date specified in those requirements or, in the case of new industrial users, upon commencement of the discharge. *[62-625.410]*
3. The permittee shall perform the pretreatment functions as required in Chapter 62-625, F.A.C., including, but not limited to, the following:
 - a. Implementing the necessary legal authorities as provided in Rule 62-625.500(2)(a), F.A.C. This includes, among other things, the authority to require compliance with applicable pretreatment standards, which includes general prohibitions listed in Rule 62-625.400(1), F.A.C., specific prohibitions in Rule 62-625.400(2), F.A.C., locally developed limits as required by Rules 62-625.400(3) and (4), F.A.C., and national categorical limits in accordance with Rule 62-625.410, F.A.C.;
 - b. Implementing the programmatic functions as required under Rule 62-625.500(2)(b), F.A.C.;
 - c. Providing the required funding, equipment, and personnel to implement the pretreatment program as provided in Rules 62-625.500(2), (3), and (4), F.A.C.; and
 - d. Providing a written technical evaluation that local limits have been developed in accordance with Rule 62-625.400(3)(a), F.A.C. The evaluation shall verify whether existing local limits protect the wastewater facilities, and if not, the permittee shall develop new local limits as part of the evaluation in accordance with Rule 62-625.600(16), F.A.C. For new local limits, a plan of study shall be submitted to the Department prior to initiating sampling required to develop the new local limits. This evaluation shall be submitted to the Department at the address in the condition below within 180 days after permit renewal.

[62-625.400 and .500]

4. As required by Rules 62-625.600(8) and (12), F.A.C., the permittee shall submit a signed copy of the annual report for pretreatment activities, including DMRs for Monitoring Site Numbers PRT-I, PRT-E, and PRT-R for this facility and for all facilities covered by the permittee's pretreatment program, to the Department at the following address:

Florida Department of Environmental Protection
Domestic Wastewater Section, Mail Station 3540
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

5. The annual report shall contain the information required in accordance with Rule 62-625.600(8), F.A.C., except section (8)(f) as noted below, and shall describe the permittee's pretreatment activities, including those of all covered facilities, for the reporting year. In the event that the permittee is not in compliance with any conditions or requirements of the pretreatment program, then the permittee shall also include the reasons for noncompliance and state how and when the permittee shall comply with such conditions and requirements.

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In order to comply with Rule 62-625.600(8)(f), F.A.C., the permittee shall submit annual DMRs with the analytical results of influent, effluent, and residuals for those pollutants listed on the DMRs. For any other nonpriority pollutants which the permittee believes may be causing or contributing to interference, pass through, or adversely impacting residuals quality, the annual report shall provide a summary of all analytical results of influent, effluent, and residuals. The annual report and DMRs are due on June 1 of each year, to cover a period between January 1 to December 31. *[62-625.600(8) and (12)]*

6. In addition to the Sanford/North WWTF (FL0020141), the following facilities are covered by the Sanford/North WWTF pretreatment program: Sanford/South WRF (FLA181714)
7. Samples for Monitoring Site Numbers PRT-I, PRT-E, and PRT-R shall be taken at the monitoring site locations described below:

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

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 wastewater facilities or equipment, including collection/transmission systems, no longer function as intended, are no longer safe in terms of public health and safety (including inactive or abandoned facilities), or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by paragraphs 62-600.400(2)(a) and 62-604.400(2)(c), 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 subsection 62-296.320(2), F.A.C. *[62-600.410(5), 62-604.500(3) and 62-640.400(6)]*
3. All collection/transmission systems shall be operated and maintained so as to provide uninterrupted service. *[62-604.500(2)]*
4. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
5. Cross-connection, as defined in Rule 62-550.200, F.A.C., between the wastewater facility, including the collection/transmission system, and a potable water system is prohibited. *[62-550.360][62-604.130(3)]*
6. The collection/transmission operation and maintenance manual shall be maintained and revised periodically in accordance with subsection 62-604.500(4), F.A.C., to reflect any alterations performed or to reflect experience resulting from operation. However, a new operation and maintenance manual is not required to be developed for each project if there is already an existing manual that is applicable to the facilities being constructed. *[62-604.500(4)]*
7. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
8. 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):

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- 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)]

9. 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. *[62-600.400(2)(b)]*
10. 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)]*
11. 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)]*
12. 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 deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2)]*
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)]*

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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;
 - 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)]

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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)]
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-600, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
 - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
 - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. 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.
 - e. 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.
 - f. 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)]

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20. The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. For noncompliance events related to sanitary sewer overflows or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (sanitary sewer overflows or bypass events), type of sewer overflow (e.g., manhole), discharge volumes by the treatment works treating domestic sewage, types of human health and environmental impacts of the sewer overflow event, and whether the noncompliance was related to wet weather. The written submission may be provided electronically using the Department's Business Portal at <http://www.fldepportal.com/go/> (via "Submit" followed by "Report" or "Registration/Notification"). Notice required under paragraph (d) may be provided together with the written submission using the Business Portal. All noncompliance events related to sanitary sewer overflows or bypass events submitted after December 21, 2020 shall be submitted electronically.
- (a) The following shall be included as information which must be reported within 24 hours under this condition:
1. Any unanticipated bypass which causes any reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge,
 2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 4. Any unauthorized discharge to surface or ground waters.
- (b) Oral reports as required by this subsection shall be provided as follows:
1. 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 Department by calling the STATE WATCH OFFICE 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 Watch Office:
 - a. Name, address, and telephone number of person reporting;
 - b. Name, address, and telephone number of permittee or responsible person for the discharge;
 - c. Date and time of the discharge and status of discharge (ongoing or ceased);
 - 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 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 shall waive the written report.
- (d) In accordance with Section 403.077, F.S., unauthorized releases or spills reportable to the StateWatch Office pursuant to subparagraph (b)1. above shall also be reported to the Department within 24 hours from the time the permittee becomes aware of the discharge. The permittee shall provide to the Department information reported to the State Watch Office. Notice of unauthorized releases or spills may be provided to the

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Department through the Department's Public Notice of Pollution web page at <https://floridadep.gov/pollutionnotice>.

1. If, after providing notice pursuant to paragraph (d) above, the permittee determines that a reportable unauthorized release or spill did not occur or that an amendment to the notice is warranted, the permittee may submit additional notice to the Department documenting such determination.
2. If, after providing notice pursuant to paragraph (d) above, the permittee discovers that a reportable unauthorized release or spill has migrated outside the property boundaries of the installation, the permittee must provide an additional notice to the Department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[62-620.610(20)] [62-620.100(3)] [403.077, F.S.]

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.
 - (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;

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- (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



Aaron Watkins, Director
Central District

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 submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: City of Sanford
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WRF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Interim (AO)
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: Discharge to the St. Johns River
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

Effective Date of DMR December 1, 2020
Expiration Date of DMR October 5, 2025
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (To river)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement		1.0 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (To river)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFD-1	Permit Requirement					10.0 (An.Avg.)		mg/L		Daily, when discharging	Grab
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon. Site No. EFD-1	Permit Requirement				20.0 (Max.)	15.0 (Max.Wk.Avg.)	12.5 (Mo.Avg.)	mg/L		Daily, when discharging	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. EFD-1	Permit Requirement					10.0 (An.Avg.)		mg/L		Daily, when discharging	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFD-1	Permit Requirement				20.0 (Max.)	15.0 (Max.Wk.Avg.)	12.5 (Mo.Avg.)	mg/L		Daily, when discharging	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: Sanford/North WWTF

MONITORING GROUP

D-001

PERMIT NUMBER: FL0020141-020-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		Daily, when discharging	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement				200 (Mo.Geo.Mn.)	800 (Max.)		#/100mL		Daily, when discharging	Grab
E.coli	Sample Measurement										
PARM Code 51040 A Mon. Site No. EFA-1	Permit Requirement				126 (Mo.Geo.Mn.)	410 (90 th percentile)		#/100mL		Daily, when discharging	Grab
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFD-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)		s.u.		Daily, when discharging	Grab
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
Chlorine, Total Residual (For Dechlorination)	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFD-1	Permit Requirement					0.01 (Max.)		mg/L		Daily, when discharging	Grab
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Routine)	Sample Measurement										
PARM Code TAN3B P Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		Annually	4 grabs/24 hr.
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B Q Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TAN3B R Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsii (Routine)	Sample Measurement										
PARM Code TAN6H P Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		Annually	4 grabs/24 hr.

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

D-001

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H Q Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
LC50 STATRE 96HOUR ACUTE Cyprinella leedsi (Additional)	Sample Measurement										
PARM Code TAN6H R Mon. Site No. EFD-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFD-1	Permit Requirement					6.0 (An.Avg.)		mg/L		Daily, when discharging	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFD-1	Permit Requirement				12.0 (Max.)	9.0 (Max.Wk.Avg.)	7.5 (Mo.Avg.)	mg/L		Daily, when discharging	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 Y Mon. Site No. EFD-1	Permit Requirement					1.0 (An.Avg.)		mg/L		Daily, when discharging	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFD-1	Permit Requirement				2.0 (Max.)	1.5 (Max.Wk.Avg.)	1.25 (Mo.Avg.)	mg/L		Daily, when discharging	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFD-1	Permit Requirement					1.0 (An.Avg.)		mg/L		Daily, when discharging	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFD-1	Permit Requirement				2.0 (Max.)	1.5 (Max.Wk.Avg.)	1.25 (Mo.Avg.)	mg/L		Daily, when discharging	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. EFD-1	Permit Requirement		19342 (An.Total)	lb/yr						Monthly, when discharging	Calculated
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Q Mon. Site No. EFD-1	Permit Requirement		Report (Mo.Total)	lb/mth						Monthly, when discharging	Calculated

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

D-001

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. EFD-1	Permit Requirement		2345 (An.Total)	lb/yr						Monthly, when discharging	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. EFD-1	Permit Requirement		Report (Mo.Total)	lb/mth						Monthly, when discharging	Calculated
Stream Stage	Sample Measurement										
PARM Code 34782 P Mon. Site No. OTH-1	Permit Requirement	1.2 (Min.)		ft						Daily, when discharging	Staff Gauge
Rainfall	Sample Measurement										
PARM Code 46529 P Mon. Site No. OTH-2	Permit Requirement		Report (Max.)	in						Daily, when discharging	Measured
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFD-1	Permit Requirement				5.0 (Min.)			mg/L		Daily, when discharging	Meter
Chlorodibromomethane	Sample Measurement										
PARM Code 34306 Y Mon. Site No. EFD-1	Permit Requirement					80 (An.Avg.)		ug/kg		Monthly, when discharging	Grab
Cyanide, Total (as CN)	Sample Measurement										
PARM Code 00720 1 Mon. Site No. EFD-1	Permit Requirement						10.0 (Max.)	ug/L		Monthly, when discharging	Grab
Dichlorobromomethane	Sample Measurement										
PARM Code 32101 Y Mon. Site No. EFD-1	Permit Requirement					100 (An.Avg.)		ug/kg		Monthly, when discharging	Grab
Hardness, Total (as CaCO3)	Sample Measurement										
PARM Code 00900 1 Mon. Site No. EFD-1	Permit Requirement						Report (Max.)	mg/L		Monthly, when discharging	Grab
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 1 Mon. Site No. EFD-1	Permit Requirement						Report (Max.)	ug/L		Monthly, when discharging	Grab

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY:Sanford/North WWTF

MONITORING GROUP D-001

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD From: To:

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phenolic Compounds, Total Recoverable	Sample Measurement										
PARM Code 70029 1 Mon. Site No. EFD-1	Permit Requirement					7.5 (Max.)	ug/L			Monthly, when discharging	Grab
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 1 Mon. Site No. EFD-1	Permit Requirement					Report (Max.)	ug/L			Monthly, when discharging	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

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

Effective Date of DMR Dec 1, 2020

Final
MA
R-001
REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Public Access Reuse and Site 10, with Influent

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (To PAR)	Sample Measurement										
PARM Code 50050 Y Mon. Site No. FLW-3	Permit Requirement		15.414 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (To PAR)	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-3	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Flow (To Site 10)	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-2	Permit Requirement		2.84 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (To Site 10)	Sample Measurement										
PARM Code 50050 Q 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		5 Days/Week	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 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		5 Days/Week	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):

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

R-001

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-1	Permit Requirement					5.0 (Max.)	mg/L			Daily; 24 hours	Grab
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. EFB-1	Permit Requirement					5.0 (Max.)	mg/L			Continuous	Meter
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement					25 (Max.)	#/100mL			Daily; 24 hours	Grab
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 A Mon. Site No. EFA-1	Permit Requirement				75 (Min.Mo.Total)		percent			Daily; 24 hours	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
Flow (from Lake Monroe)	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-4	Permit Requirement		Report (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (from Lake Monroe)	Sample Measurement										
PARM Code 50050 S Mon. Site No. FLW-4	Permit Requirement		Report (Mo.Avg.)	MGD						Continuous	Flow Totalizer
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					Report (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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

R-001

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
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
Flow (total through plant)	Sample Measurement										
PARM Code 50050 G Mon. Site No. INF-2	Permit Requirement		7.3 (An.Avg.)	MGD						Continuous	Flow Totalizer
Flow (total through plant)	Sample Measurement										
PARM Code 50050 T Mon. Site No. INF-2	Permit Requirement	Report (Mo.Avg.)	Report (3Mo.Avg.)	MGD						Continuous	Flow Totalizer
Percent Capacity, (TMADE/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 G Mon. Site No. INF-2	Permit Requirement					Report (Mo.Avg.)		percent		Monthly	Calculated
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement										
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement					Report (Max.)		mg/L		5 Days/Week	24-hr FPC
Solids, Total Suspended (Influent)	Sample Measurement										
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement					Report (Max.)		mg/L		5 Days/Week	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: RMP-A
MONITORING GROUP DESCRIPTION: Class A Biosolids

REPORT FREQUENCY: Annually
PROGRAM: Domestic

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
Nitrogen, Sludge, Tot, Dry Wt (as N)	Sample Measurement										
PARM Code 78470 + Mon. Site No. RMP-A	Permit Requirement		Report (Max.)	percent						Annually	Composite
Phosphorus, Sludge, Tot, Dry Wt (as P)	Sample Measurement										
PARM Code 78478 + Mon. Site No. RMP-A	Permit Requirement		Report (Max.)	percent						Annually	Composite
Potassium, Sludge, Tot, Dry Wt (as K)	Sample Measurement										
PARM Code 78472 + Mon. Site No. RMP-A	Permit Requirement		Report (Max.)	percent						Annually	Composite
Arsenic Total, Dry Weight, Sludge	Sample Measurement										
PARM Code 49565 + Mon. Site No. RMP-A	Permit Requirement					75.0 (Max.)	mg/kg			Annually	Composite
Cadmium, Sludge, Tot, Dry Weight (as Cd)	Sample Measurement										
PARM Code 78476 + Mon. Site No. RMP-A	Permit Requirement					85.0 (Max.)	mg/kg			Annually	Composite
Copper, Sludge, Tot, Dry Wt. (as Cu)	Sample Measurement										
PARM Code 78475 + Mon. Site No. RMP-A	Permit Requirement					4300.0 (Max.)	mg/kg			Annually	Composite

*EITHER THE FECAL COLIFORM LIMIT OR SALMONELLA SP. LIMIT MUST BE MET.

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):

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP RMP-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Dry Weight, Sludge	Sample Measurement										
PARM Code 78468 + Mon. Site No. RMP-A	Permit Requirement					840.0 (Max.)	mg/kg			Annually	Composite
Mercury, Dry Weight, Sludge	Sample Measurement										
PARM Code 78471 + Mon. Site No. RMP-A	Permit Requirement					57.0 (Max.)	mg/kg			Annually	Composite
Molybdenum, Dry Weight, Sludge	Sample Measurement										
PARM Code 78465 + Mon. Site No. RMP-A	Permit Requirement					75.0 (Max.)	mg/kg			Annually	Composite
Nickel, Dry Weight, Sludge	Sample Measurement										
PARM Code 78469 + Mon. Site No. RMP-A	Permit Requirement					420.0 (Max.)	mg/kg			Annually	Composite
Selenium Sludge Solid	Sample Measurement										
PARM Code 61518 + Mon. Site No. RMP-A	Permit Requirement					100.0 (Max.)	mg/kg			Annually	Composite
Zinc, Dry Weight, Sludge	Sample Measurement										
PARM Code 78467 + Mon. Site No. RMP-A	Permit Requirement					7500.0 (Max.)	mg/kg			Annually	Composite
pH	Sample Measurement										
PARM Code 00400 + Mon. Site No. RMP-A	Permit Requirement					Report (Max.)	s.u.			Annually	Grab
Solids, Total, Sludge, Percent	Sample Measurement										
PARM Code 61553 + Mon. Site No. RMP-A	Permit Requirement					Report (Max.)	percent			Annually	Composite
Coliform, Fecal	Sample Measurement										
PARM Code 74055 + Mon. Site No. RMP-A	Permit Requirement		1000.0 (Max.)	MPN/g						Annually	Grab
Salmonella Sludge	Sample Measurement										
PARM Code 71204 + Mon. Site No. RMP-A	Permit Requirement		3.0 (Max.)	MPN/4g						Annually	Grab

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: RMP-AA
MONITORING GROUP DESCRIPTION: Class AA Biosolids

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

REPORT FREQUENCY: Monthly
PROGRAM: Domestic

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Sludge, Tot, Dry Wt (as N)	Sample Measurement										
PARM Code 78470 + Mon. Site No. RMP-AA	Permit Requirement		Report (Mo.Avg.)	percent						Monthly	Composite
Phosphorus, Sludge, Tot, Dry Wt (as P)	Sample Measurement										
PARM Code 78478 + Mon. Site No. RMP-AA	Permit Requirement		Report (Mo.Avg.)	percent						Monthly	Composite
Potassium, Sludge, Tot, Dry Wt (as K)	Sample Measurement										
PARM Code 78472 + Mon. Site No. RMP-AA	Permit Requirement		Report (Mo.Avg.)	percent						Monthly	Composite
Arsenic Total, Dry Weight, Sludge	Sample Measurement										
PARM Code 49565 + Mon. Site No. RMP-AA	Permit Requirement				41.0 (Mo.Avg.)	75.0 (Max.)	mg/kg			Monthly	Composite
Cadmium, Sludge, Tot, Dry Weight (as Cd)	Sample Measurement										
PARM Code 78476 + Mon. Site No. RMP-AA	Permit Requirement				39.0 (Mo.Avg.)	85.0 (Max.)	mg/kg			Monthly	Composite
Copper, Sludge, Tot, Dry Wt. (as Cu)	Sample Measurement										
PARM Code 78475 + Mon. Site No. RMP-AA	Permit Requirement				1500.0 (Mo.Avg.)	4300.0 (Max.)	mg/kg			Monthly	Composite

*EITHER THE FECAL COLIFORM LIMIT OR SALMONELLA SP. LIMIT MUST BE MET.

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):

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

RMP-AA

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Lead, Dry Weight, Sludge	Sample Measurement										
PARM Code 78468 + Mon. Site No. RMP-AA	Permit Requirement				300.0 (Mo.Avg.)	840.0 (Max.)	mg/kg			Monthly	Composite
Mercury, Dry Weight, Sludge	Sample Measurement										
PARM Code 78471 + Mon. Site No. RMP-AA	Permit Requirement				17.0 (Mo.Avg.)	57.0 (Max.)	mg/kg			Monthly	Composite
Molybdenum, Dry Weight, Sludge	Sample Measurement										
PARM Code 78465 + Mon. Site No. RMP-AA	Permit Requirement					75.0 (Max.)	mg/kg			Monthly	Composite
Nickel, Dry Weight, Sludge	Sample Measurement										
PARM Code 78469 + Mon. Site No. RMP-AA	Permit Requirement				420.0 (Mo.Avg.)	420.0 (Max.)	mg/kg			Monthly	Composite
Selenium Sludge Solid	Sample Measurement										
PARM Code 61518 + Mon. Site No. RMP-AA	Permit Requirement				100.0 (Mo.Avg.)	100.0 (Max.)	mg/kg			Monthly	Composite
Zinc, Dry Weight, Sludge	Sample Measurement										
PARM Code 78467 + Mon. Site No. RMP-AA	Permit Requirement				2800.0 (Mo.Avg.)	7500.0 (Max.)	mg/kg			Monthly	Composite
pH	Sample Measurement										
PARM Code 00400 + Mon. Site No. RMP-AA	Permit Requirement					Report (Max.)	s.u.			Monthly	Grab
Solids, Total, Sludge, Percent	Sample Measurement										
PARM Code 61553 + Mon. Site No. RMP-AA	Permit Requirement				Report (Mo.Avg.)	Report (Max.)	percent			Monthly	Composite
Coliform, Fecal	Sample Measurement										
PARM Code 74055 + Mon. Site No. RMP-AA	Permit Requirement		1000.0 (Max.)	MPN/g						Monthly	Grab
Salmonella Sludge	Sample Measurement										
PARM Code 71204 + Mon. Site No. RMP-AA	Permit Requirement		3.0 (Max.)	MPN/4g						Monthly	Grab

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: RMP-Q
MONITORING GROUP DESCRIPTION: Biosolids Quantity

REPORT FREQUENCY: Monthly
PROGRAM: Domestic

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 (Landfilled)	Sample Measurement										
PARM Code B0008 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Received)	Sample Measurement										
PARM Code B0002 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Transferred)	Sample Measurement										
PARM Code B0007 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Distributed & Marketed in FL)	Sample Measurement										
PARM Code B0004 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Distributed & Marketed outside FL)	Sample Measurement										
PARM Code B0005 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						Monthly	Calculated
Biosolids Quantity (Land-Applied)	Sample Measurement										
PARM Code B0006 + Mon. Site No. RMP-1	Permit Requirement		Report (Mo.Total)	dry tons						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):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: PRT-I
MONITORING GROUP DESCRIPTION: Influent Pretreatment

REPORT FREQUENCY: Annually
PROGRAM: Domestic

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
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):

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

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DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-I

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

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DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: PRT-E
MONITORING GROUP DESCRIPTION: Effluent Pretreatment

REPORT FREQUENCY: Annually
PROGRAM: Domestic

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

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

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):

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

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DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

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DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-E

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: PRT-R
MONITORING GROUP DESCRIPTION: Residuals Pretreatment

REPORT FREQUENCY: Annually
PROGRAM: Domestic

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
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):

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

PRT-R

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

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

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: <https://www.fldepportal.com/go/>

PERMITTEE NAME: Sanford, City of
MAILING ADDRESS: 300 N Park Ave
Sanford, Florida 32771- 1244

FACILITY: Sanford/North WWTF
LOCATION: 1201 West Seminole Boulevard
Sanford, FL 32771-

COUNTY: Seminole
OFFICE: Central District

PERMIT NUMBER: FL0020141-020-DW1P

LIMIT:
CLASS SIZE:
MONITORING GROUP NUMBER:
MONITORING GROUP DESCRIPTION:
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING NOT REQUIRED:* ☐
MONITORING PERIOD From: _____ To: _____

Final
MA
RWS-A
REPORT FREQUENCY: Annually
PROGRAM: Domestic
Annual Reclaimed Water or Effluent Analysis

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable (GWS = 6)**	Sample Measurement										
PARM Code 01268 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Arsenic, Total Recoverable (GWS = 10)	Sample Measurement										
PARM Code 00978 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Barium, Total Recoverable (GWS = 2,000)	Sample Measurement										
PARM Code 01009 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Beryllium, Total Recoverable (GWS = 4)	Sample Measurement										
PARM Code 00998 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Cadmium, Total Recoverable (GWS = 5)	Sample Measurement										
PARM Code 01113 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Chromium, Total Recoverable (GWS =100)	Sample Measurement										
PARM Code 01118 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

*THE "MONITORING NOT REQUIRED" CHECKBOX SHOULD BE SELECTED WHEN A CERTIFICATION STATEMENT IN ACCORDANCE WITH SUBSECTION 62-600.680(2), F.A.C., IS SUBMITTED WITH THIS DMR. SEE CERTIFICATION STATEMENT IN COMMENTS SECTION BELOW.

**GROUND WATER STANDARD (GWS) FOR REFERENCE AND REVIEW ONLY.

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):

☐ NO NEW NON-DOMESTIC WASTEWATER DISCHARGERS HAVE BEEN ADDED TO THE COLLECTION SYSTEM SINCE THE LAST RECLAIMED WATER OR EFFLUENT ANALYSIS WAS CONDUCTED.
SIGN AND DATE:

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200)	Sample Measurement										
PARM Code 00722 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Fluoride, Total (as F) (GWS = 4.0/2.0)	Sample Measurement										
PARM Code 00951 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Lead, Total Recoverable (GWS = 15)	Sample Measurement										
PARM Code 01114 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 71901 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nickel, Total Recoverable (GWS = 100)	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) (GWS = 10)	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) (GWS = 1)	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)(GWS = 10)	Sample Measurement										
PARM Code 00630 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Selenium, Total Recoverable (GWS =50)	Sample Measurement										
PARM Code 00981 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sodium, Total Recoverable (GWS = 160)	Sample Measurement										
PARM Code 00923 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 00982 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
1,1-dichloroethylene (GWS = 7)	Sample Measurement										
PARM Code 34501 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,1,1-trichloroethane (GWS = 200)	Sample Measurement										
PARM Code 34506 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,1,2-trichloroethane (GWS = 5)	Sample Measurement										
PARM Code 34511 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichloroethane (GWS = 3)	Sample Measurement										
PARM Code 32103 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichloropropane (GWS = 5)	Sample Measurement										
PARM Code 34541 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2,4-trichlorobenzene (GWS = 70)	Sample Measurement										
PARM Code 34551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzene (GWS = 1)	Sample Measurement										
PARM Code 34030 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Carbon tetrachloride (GWS = 3)	Sample Measurement										
PARM Code 32102 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Cis-1,2-dichloroethene (GWS = 70)	Sample Measurement										
PARM Code 81686 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)(GWS = 5)	Sample Measurement										
PARM Code 03821 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Ethylbenzene (GWS = 700)	Sample Measurement										
PARM Code 34371 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Monochlorobenzene (GWS = 100)	Sample Measurement										
PARM Code 34031 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-dichlorobenzene (GWS = 600)	Sample Measurement										
PARM Code 34536 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,4-dichlorobenzene (GWS = 75)	Sample Measurement										
PARM Code 34571 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Styrene, Total (GWS = 100)	Sample Measurement										
PARM Code 77128 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Tetrachloroethylene (GWS = 3)	Sample Measurement										
PARM Code 34475 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Toluene (GWS = 1,000)	Sample Measurement										
PARM Code 34010 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
1,2-trans-dichloroethylene (GWS = 100)	Sample Measurement										
PARM Code 34546 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Trichloroethylene (GWS = 3)	Sample Measurement										
PARM Code 39180 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1)	Sample Measurement										
PARM Code 39175 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Xylenes (GWS = 10,000)	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(GWS = 3x10 ⁻⁵)	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 (GWS = 70)	Sample Measurement										
PARM Code 39730 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Silvex (GWS = 50)	Sample Measurement										
PARM Code 39760 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Alachlor (GWS = 2)	Sample Measurement										
PARM Code 39161 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Atrazine (GWS = 3)	Sample Measurement										
PARM Code 39033 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene (GWS = 0.2)	Sample Measurement										
PARM Code 34247 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Carbofuran (GWS = 40)	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)(GWS = 2)	Sample Measurement										
PARM Code 39350 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200)	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 (GWS = 400)	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 (GWS = 6)	Sample Measurement										
PARM Code 39100 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Dibromochloropropane (DBCP) (GWS = 0.2)	Sample Measurement										
PARM Code 82625 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Dinoseb (GWS = 7)	Sample Measurement										
PARM Code 30191 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Diquat (GWS = 20)	Sample Measurement										
PARM Code 04443 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endothall (GWS = 100)	Sample Measurement										
PARM Code 38926 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endrin (GWS = 2)	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)(GWS = 0.02)	Sample Measurement										
PARM Code 77651 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Glyphosate (GWS = 0.7)	Sample Measurement										
PARM Code 79743 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor (GWS = 0.4)	Sample Measurement										
PARM Code 39410 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Heptachlor epoxide (GWS = 0.2)	Sample Measurement										
PARM Code 39420 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorobenzene (GWS = 1)	Sample Measurement										
PARM Code 39700 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Hexachlorocyclopentadiene (GWS = 50)	Sample Measurement										
PARM Code 34386 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Gamma BHC (Lindane) (GWS = 0.2)	Sample Measurement										
PARM Code 39782 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Methoxychlor (GWS = 40)	Sample Measurement										
PARM Code 39480 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Oxamyl (vydate) (GWS = 200)	Sample Measurement										
PARM Code 38865 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Pentachlorophenol (GWS = 1)	Sample Measurement										
PARM Code 39032 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Picloram (GWS = 500)	Sample Measurement										
PARM Code 39720 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)(GWS = 0.5)	Sample Measurement										
PARM Code 39516 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4)	Sample Measurement										
PARM Code 39055 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Toxaphene (GWS = 3)	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(GWS = 0.080)	Sample Measurement										
PARM Code 82080 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	Grab
Radium 226 + Radium 228, Total (GWS = 5)	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 (GWS = 15)	Sample Measurement										
PARM Code 80045 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Aluminum, Total Recoverable (GWS = 0.2)	Sample Measurement										
PARM Code 01104 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Chloride (as Cl) (GWS = 250)	Sample Measurement										
PARM Code 00940 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Iron, Total Recoverable (GWS = 0.3)	Sample Measurement										
PARM Code 00980 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Copper, Total Recoverable (GWS = 1,000)	Sample Measurement										
PARM Code 01119 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Manganese, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 11123 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sanford/North WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FL0020141-020-DW1P

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01079 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sulfate, Total (GWS = 250)	Sample Measurement										
PARM Code 00945 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Zinc, Total Recoverable (GWS = 5,000)	Sample Measurement										
PARM Code 01094 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
pH (GWS = 6.5-8.5)	Sample Measurement										
PARM Code 00400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	s.u.			Annually	Grab
Solids, Total Dissolved (TDS) (GWS = 500)	Sample Measurement										
PARM Code 70295 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Foaming Agents (GWS = 0.5)	Sample Measurement										
PARM Code 01288 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

DMR EFFECTIVE DATE: 1st day of the 2nd month following effective date of permit - Permit expiration

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0020141-020-DW1P Facility: Sanford/North WWTF
 Monitoring Period From: _____ To: _____

	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	BOD, Carbonaceous 5 day, 20C mg/L	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Dechlorination) mg/L	Chlorine, Total Residual (For Disinfection) mg/L	CDBM ug/kg	Coliform, Fecal #/100mL	Cyanide, Total (as CN) ug/L	DCBM ug/kg	E.coli #/100mL	Flow (To PAR) MGD
Code	80082	80082	80082	50060	50060	34306	74055	00720	32101	51040	50050
Mon. Site	INF-1	EFA-1	EFD-1	EFD-1	EFA-1	EFD-1	EFA-1	EFD-1	EFD-1	EFA-1	FLW-3
1											
2											
3											
4											
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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

FL0020141-020-DW1P
From: _____ To: _____

Facility: Sanford/North WWTF

	Flow (To Site 10) MGD	Flow (To river) MGD	Flow (From Lake Monroe) MGD	Flow (Total through plant) MGD	Hardness, Total (as CaCO3) mg/L	Mercury, Total Recoverable ug/L	Nitrogen, Ammonia, Total (as N) mg/L	Nitrogen, Total mg/L	Nitrogen, Total mg/L	Oxygen, Dissolved (DO) mg/L	Phenolic Compounds, Total Recoverable ug/L
Code	50050	50050	50050	50050	00900	71901	00610	00600	00600	00300	70029
Mon. Site	FLW-2	FLW-1	FLW-4	INF-2	EFD-1	EFD-1	EFD-1	EFA-1	EFD-1	EFD-1	EFD-1
1											
2											
3											
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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: _____

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FL0020141-020-DW1P
From: _____ To: _____

Facility: Sanford/North WWTF

	Phosphorus, Total (as P) mg/L	Phosphorus, Total (as P) mg/L	Polycyclic Aromatic Hydrocarbons , Total ug/L	Rainfall in	Silver, Total Recoverable ug/L	Solids, Total Suspended (Influent) mg/L	Solids, Total Suspended mg/L	Solids, Total Suspended mg/L	Stream Stage ft	pH, Min s.u.	pH, Max s.u.	pH s.u.
Code	00665	00665	22456	46529	01079	00530	00530	00530	34782	00400	00400	00400
Mon. Site	EFA-1	EFD-1	EFD-1	OTH-2	EFD-1	INF-1	EFB-1	EFD-1	OTH-1	EFA-1	EFA-1	EFD-1
1												
2												
3												
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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: _____

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWB-1S10
 Well Type: Background
 Description: Site 10, #6778, 25.5 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		Report	ug/L	Grab	Quarterly				

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)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
Permit Number: FL0020141-020-DW1P
County: Seminole

Monitoring Well ID: MWC-1
Well Type: Compliance
Description: SANFORD/MAYFAIR GOLF COURSE/MW-1 COMP.

Report Frequency: Quarterly
Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling?

___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		80	ug/L	Grab	Quarterly				

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)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-10S10
 Well Type: Compliance
 Description: Site 10, #6769, 6.4 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		80	ug/L	Grab	Quarterly				

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GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-11S10
 Well Type: Compliance
 Description: Site 10, #6768, 7.5 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		80	ug/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-12S10
 Well Type: Compliance
 Description: Site 10, #6767, 5.5 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-13S10
 Well Type: Compliance
 Description: Site 10, #6766, 7.5 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		80	ug/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-14S10
 Well Type: Compliance
 Description: Compliance Well at Site 10
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		80	ug/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-15S10
 Well Type: Compliance
 Description: Compliance Well at Site 10
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-2R
 Well Type: Compliance
 Description: SANFORD/MAYFAIR
 GOLF COURSE/MW-
 2 COMP.-Replacement
 Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		80	ug/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-3
 Well Type: Compliance
 Description: SANFORD/MAYFAIR
 GOLF COURSE/PW-3
 FLORIDA

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
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COMMENTS AND EXPLANATION (Reference all attachments here):

ISSUANCE/REISSUANCE DATE:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-3S10
 Well Type: Compliance
 Description: Site 10, #6776, 24.5 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-5S10
 Well Type: Compliance
 Description: Site 10, #6774, 21 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
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pH	00400		6.5-8.5	s.u.	Grab	Quarterly				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWC-6S10
 Well Type: Compliance
 Description: Site 10, #6773, 9.2 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				
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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWI-3
 Well Type: Intermediate
 Description: SANFORD/MAYFAIR
 GOLF COURSE/MW-
 3 INTER.

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		Report	ug/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sanford/North WWTF
 Permit Number: FL0020141-020-DW1P
 County: Seminole

Monitoring Well ID: MWI-7S10
 Well Type: Intermediate
 Description: Site 10, #6772, 22.5 ft deep
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Domestic

Office: Central District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				
pH	00400		Report	s.u.	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
Trihalomethane, Total by summation	82080		Report	ug/L	Grab	Quarterly				

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)

COMMENTS AND EXPLANATION (Reference all attachments here):

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. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. 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, unless indicated otherwise in the permit or on the DMR:

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. Data qualifier codes are not to be reported on Part A.

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. Data qualifier codes are not to be reported on Part D.

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.

**BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

IN THE MATTER OF:

Bilal Iftikhar, P.E, Public Works/Utility Director
City of Sanford
300 N Park Ave
Sanford, Florida 32771- 1244

**IN THE OFFICE OF THE
CENTRAL DISTRICT**

Administrative Order No.: CD-20-WW-141
File No.: FL0020141-020-DW1P
DEP Permit No.: FL0020141

**ORDER ESTABLISHING COMPLIANCE SCHEDULE UNDER SECTION
403.088(2)(f), F.S.**

I. STATUTORY AUTHORITY

The Department of Environmental Protection (Department) issues this order under the authority of Section 403.088(2)(f), Florida Statutes. The Secretary of the Department has delegated this authority to the Director of District Management, who issues this order and makes the following findings of fact.

II. FINDINGS OF FACT

1. The Permittee, the City of Sanford, is a person under Section 403.031, Florida Statutes (F.S.).
2. The Permittee owns and operates a 7.3 MGD domestic wastewater reclamation facility (Sanford/North WRF) located at 1201 West Seminole Boulevard, Sanford, in Seminole County, Florida ("Facility"), which intermittently discharges effluent to waters of the state as defined in Section 403.031, F.S., the St. Johns River downstream of Lake Monroe. The receiving water, WBID# 2893C, is predominately freshwater, as described in Rule 62-302.200, Florida Administrative Code (F.A.C.).
3. The Permittee has filed a timely application for renewal of NPDES permit number FL0020141 ("Permit"), under Section 403.088(2), F. S.
4. Section 301(a) of the Clean Water Act (Act), 33 U.S.C. §1311(a), prohibits the discharge of pollutants into navigable waters of the United States except in compliance with the National Pollutant Discharge Elimination System (NPDES) permit, authority for which is currently delegated to the State of Florida, Department of Environmental Protection.
5. The Facility is permitted to discharge 1.0 MGD annual average daily flow of effluent to the St. Johns River, surface waters of the State, as described in II. 2. above. The point of discharge is located approximately at latitude 28°50' 14" N, longitude 81°19' 26" W.
6. The expanded effluent analyses submitted with the renewal application were not adequate to determine if the facility is providing reasonable assurance that all freshwater quality standards are being met in the discharge. Additional tests with sufficiently sensitive methods are needed for some constituents and interim limits are needed for others, as follows:
 - a. Mercury was analyzed using a method with a method detection limits (MDL) of 0.10 µg/L, which is higher than the water quality standard (WQS) of 0.012 µg/L. Three additional samples must be analyzed using EPA Method 1631 with a target MDL of 0.0002 µg/L, or lower, or a Mercury Minimization Plan prepared and submitted to meet the state-wide TMDL for mercury.
 - b. Silver was tested using Method 200.8 with an MDL of 1.0 µg/L. The target MDL for this method is 0.10 µg/L. Although this is higher than the WQS of 0.07 µg/L, Rule 62-4.246(10), F.A.C., requires that the lowest target MDL available be used for the analyses. A minimum of three samples using the lower MDL must be provided.

- c. Cyanide was reported as 0.0078 mg/L, or 7.8 µg/L which exceeds the WQS of 5.2 µg/L. This parameter is included in the permit with a limit equal to the WQS.
 - d. Total Phenolic compounds were found at concentrations between the MDL of 3 µg/L and PQL of 10 µg/L in two of the three samples, indicating the concentrations are above the WQS of 1.0 µg/L. This parameter is included in the permit with a limit equal to the WQS.
 - e. Chlorodibromomethane (CDBM) is exceeding the WQS of 34 µg/L annual average; the average of the three tests is 62.77 µg/L. This parameter is included in the permit with a limit equal to the WQS.
 - f. Dichlorobromomethane (DCBM) is exceeding the WQS of 22 µg/L annual average; the average for the three tests is 76.53 µg/L. This parameter is included in the permit with a limit equal to the WQS.
 - g. The target MDL for the base-neutral compounds using EPA Method 625 is 1.0 µg/L; the MDL reported is 1.6 µg/L. A minimum of three samples using the lower MDL must be provided.
7. Sections 403.088(2)(e) and (f), F. S., authorize the Department to issue a permit for the discharge of wastes into waters of the state, accompanied by an Order establishing a schedule for achieving compliance with all permit conditions if the specified criteria are met.
 8. The Department has been in discussion with the applicant regarding the concentration of these constituents in the effluent. It has been determined and agreed between the parties that a plan and schedule for meeting the new limits or providing the additional test results be incorporated into this Administrative Order (AO) which is referenced in the facility permit.
 9. The Department finds that:
 - a. The applicant needs permission to discharge effluent or reclaimed water (and cannot provide an affirmative demonstration of reasonable assurance that the surface water quality standards for discharge of silver to the waters of the state can be consistently met) for a period of time necessary to complete research, planning, construction, installation, or operation of approved and acceptable process changes, a modified pollution abatement facility or alternative waste disposal system to meet the effluent limits for silver;
 - b. The applicant has a Part III public access reuse system that is under expansion. Discharge to surface waters is a back-up to reuse and is expected to become less frequent;
 - c. There is no present, reasonable alternative means of disposing of the excess reclaimed water/effluent other than by discharging it to surface waters of the State;
 - d. The granting of the permit renewal will be in the public interest; and
 - e. The discharge will not be destructive to the quality of the receiving waters.

III. ORDER

Based on the foregoing findings of fact,

IT IS ORDERED,

1. Until January 1, 2023, the Permittee's effluent shall comply with the following interim limits:

Parameter	Units	Max/Min	Limit	Statistical Basis	Minimum Frequency of Analysis	Sample Type	Monitoring Site Number
Cyanide	µg/L	Max	10.0	Single Sample	Monthly, when discharging	Grab	EFD-1
Total Phenols	µg/L	Max	7.5	Single Sample	Monthly, when discharging	Grab	EFD-1

Parameter	Units	Max/Min	Limit	Statistical Basis	Minimum Frequency of Analysis	Sample Type	Monitoring Site Number
Chlorodibromomethane	µg/L	Max	80	Annual Average	Monthly, when discharging	Grab	EFD-1
Dichlorodibromomethane	µg/L	Max	100	Annual Average	Monthly, when discharging	Grab	EFD-1

2. The Permittee shall collect data from a minimum of twelve (12) samples to demonstrate whether there is reasonable potential for the concentration of these parameters in the effluent to exceed the water quality standard.
3. By June 1, 2021, the Permittee shall submit to the Department's Central District office a report, outlining progress toward compliance.
4. By December 1, 2021, the Permittee shall present the data to determine if there is a reasonable potential for the contaminants to exceed the water quality standards. If reasonable assurance has been provided that a contaminant is not present in the effluent at concentrations that exceed the water quality standards, it will be removed from the permit. If reasonable assurance has not been provided, corrective action shall be proposed, or the timeframes in the AO extended to allow collection of the required number of samples.
5. By June 1, 2022, the Permittee shall demonstrate Compliance with final effluent limits in the permit or submit a request for a permit revision.
6. This Order may be modified through the procedures established in Chapter 62-620, Florida Administrative Code.
7. Reports or other information required by this order shall be sent to Permitting and Waste Cleanup Program at the Central District office at DEP_CD@FloridaDEP.gov.
8. This order does not operate as a permit under Section 403.088, F. S. This order shall be incorporated by reference into DEP Permit No FL0020141, which shall require compliance by the Permittee with the requirements of this order. The Permittee shall maintain and operate its facilities in compliance with all other conditions of the Permit.
9. Failure to comply with the requirements of this AO shall constitute a violation of the AO and the Permit, FL0020141, and may subject the permittee to penalties as provided in Section 403.161, F. S.
10. If any event occurs that causes delay or the reasonable likelihood of delay, in complying with the requirements of this order, the Permittee shall have the burden of demonstrating that the delay was or will be caused by circumstances beyond the reasonable control of the Permittee and could not have been or cannot be overcome by the Permittee's due diligence. Economic circumstances shall not be considered circumstances beyond the reasonable control of the Permittee, nor shall the failure of a contractor, subcontractor, materialman or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines be a cause beyond the control of the Permittee, unless the cause of the contractor's late performance was also beyond the contractor's control. Delays in final agency action on an application for a relief mechanism are eligible for consideration under this paragraph, provided that none of those delays were a result of late submission by the Permittee. Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, the Permittee shall notify the Department orally by calling the Department's Central District office at (407)897-4100, within 24 hours or by the next working day and shall, within seven calendar days of oral notification to the Department, notify the Department in writing of the anticipated length and cause of the delay, the measures taken or to be taken to prevent or minimize the delay and the timetable by which Facility intends to implement these measures. If the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of the Permittee, the time for performance hereunder shall be extended for a period equal to the delay resulting from such circumstances.

IV. NOTICE OF RIGHTS

The Department will issue the order unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition 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, or via electronic correspondence at Agency_Clerk@FloridaDEP.gov. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within **21** days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within **21** days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. The failure 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, F.S., or to intervene in this proceeding and participate as a party to it. 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, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

Executed in Orlando, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**



Aaron Watkins, Director
Central District
Florida Department of Environmental Protection

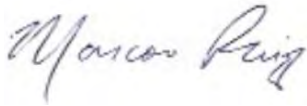
CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

David Gierach, P.E., CPH, Inc., dgierach@cphcorp.com
Ben Fries, P.E., bfries1@brighthouse.com; bfries@cphcorp.com
DEP: Dennise Judy, David Smicherko, Reggie Phillips

FILING AND ACKNOWLEDGMENT

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



Clerk

October 6, 2020
Date

**FACT SHEET
FOR
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT**

PERMIT NUMBER: FL0020141-020 (Major)
FACILITY NAME: Sanford/North WWTF
FACILITY LOCATION: 1201 West Seminole Boulevard, Sanford, FL 32771
Seminole County
NAME OF PERMITTEE: City of Sanford
PERMIT WRITER: Dennise Judy

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FL0020141-020-DW1P
Application Submittal Date: October 18, 2019
Additional Information Received: February 24, and April 7, 15, and 22, 2020

b. Type of Facility

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

c. Facility Capacity

Existing Permitted Capacity:	7.3 MGD Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 MGD Annual Average Daily Flow
Proposed Total Permitted Capacity:	7.3 MGD Annual Average Daily Flow

d. Description of Wastewater Treatment

This is an existing 7.3 MGD annual average daily flow (AADF) permitted capacity plug flow activated sludge advanced domestic wastewater treatment plant. The treatment system includes flow equalization, influent screening, grit removal, aeration, an Integrated Fixed-Film Activated Sludge Process (IFAS) Biological Nutrient Removal (BNR) system with four treatment trains each consisting of primary anoxic aerobic, deoxygenation, secondary anoxic and reaeration basins, with secondary clarification, chemical feed, filtration, and chlorination, followed by dechlorination prior to surface water discharge (back-up disposal system).

The biosolids management system consists of sludge thickening, the ThermAer Process to provide Class A stabilization, followed by dewatering (screw press) and solar drying (in a greenhouse).

There are two existing Actiflow treatment trains on site, with a total permitted capacity of 8.0 MGD, which are used to treat supplemental surface water from Lake Monroe, prior to chlorination, for public access reuse.

The wastewater treatment system provides reclaimed water to the City's existing reuse service area and has a back-up discharge to the St. Johns River downstream of Lake Monroe. The permitted capacity of the facility is 7.3 MGD AADF.

This permit authorizes installation of a new 18 MGD disc filtration system and completion of the biosolids management system.

e. Description of Effluent Disposal and Land Application Sites

Surface Water Discharge D-001: An existing **1.0 MGD** annual average daily flow discharge to St. Johns River downstream of Lake Monroe, Class III fresh waters, (WBID# 2893C) which is approximately 100 feet in length and discharges at a depth of approximately 5 feet. The point of discharge is located approximately at latitude 28°50' 14" N, longitude 81°19' 26" W.

Land Application R-001: An existing 15.414 MGD annual average daily flow permitted capacity slow-rate public access system. R-001 is a reuse system which consists of irrigation of 1800 acres at Site 10 (2.84 MGD AADF, permitted capacity) and irrigation within the Reuse Service Area shown on the attached map, which is common to both the Sanford North and South facilities. Reuse sites are listed in the attached table and includes interconnections with the Seminole County and Lake Mary Public Access Reuse Systems.

The following surface water sources may be used to augment the supply of reclaimed water: Lake Monroe, sent through the Actiflo units and then to the head of the filters for high level disinfection.

2. SUMMARY OF SURFACE WATER DISCHARGE (Jan – Dec 2019)

Monitoring Group D-001: St. Johns River, Class III Fresh Waters

Pollutants which are present in significant quantities or which are subject to permit limitations are as follows:

Parameter	Units	Max/Min	Reported Value	Statistical Basis
Flow	MGD	Max	0.135	Annual Average
BOD, Carbonaceous 5 day, 20C	mg/L	Max	3.3	Annual Average
Solids, Total Suspended	mg/L	Max	1.8	Annual Average
Coliform, Fecal	#/100mL	Max	0.5	Annual Average
pH	s.u.	Max	7.35	Single Sample
pH	s.u.	Min	7.0	Single Sample
Chlorine, Total Residual (for disinfection)	mg/L	Min	0.5	Single Sample
Chlorine, Total Residual (for dechlorination)	mg/L	Max	0.01	Single Sample
Nitrogen, Total	mg/L	Max	6.2	Single Sample
Nitrogen, Ammonia, Total (as N)	mg/L	Max	4.6*	Single Sample
Phosphorus, Total (as P)	mg/L	Max	1.1	Single Sample
Nitrogen, Total	lb/yr	Max	1281	Annual Total
Nitrogen, Total	lb/mth	Max	884	Highest Monthly Total
Phosphorus, Total (as P)	lb/yr	Max	316	Annual total
Phosphorus, Total (as P)	lb/mth	Max	158	Highest Monthly Total
Oxygen, Dissolved (DO)	mg/L	Min	7.2	Single Sample

*Exceeded during construction while under CO, now resolved.

This facility does not have a new or expanded discharge to surface waters.

The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

This facility is authorized to discharge effluent from Outfall D-001 to the St. Johns River based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (To river)	MGD	Max	1.0	Annual Average	62-600.700(2)(b) FAC
Flow (To river)	MGD	Max	Report	Monthly Average	62-600.700(2)(b) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
BOD, Carbonaceous 5 day, 20C	mg/L	Max	10.0	Annual Average	62-600.740(2)(b)1. and 62-650 FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	12.5	Monthly Average	62-600.740(2)(b)2 FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	15.0	Weekly Average	62-600.740(2)(b)3. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Single Sample	62-600.740(2)(b)4. FAC
Solids, Total Suspended	mg/L	Max	10.0	Annual Average	62-600.740(2)(b)1 and 62-650. FAC
Solids, Total Suspended	mg/L	Max	12.5	Monthly Average	62-600.740(2)(b)2 FAC
Solids, Total Suspended	mg/L	Max	15.0	Weekly Average	62-600.740(2)(b)3 FAC
Solids, Total Suspended	mg/L	Max	20.0	Single Sample	62-600.740(2)(b)4 FAC
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	62-600.440(5)(a)2. FAC
Coliform, Fecal	#/100mL	Max	200	Annual Average	62-600.440(5)(a)1. FAC
Coliform, Fecal	#/100mL	Max	800	Single Sample	62-600.440(5)(a)4. FAC
E.coli	#/100mL	Max	126	Monthly Geometric Mean	62-320.530(6)(b) FAC
E.coli	#/100mL	Max	410	90 th percentile	62-320.530(6)(b) FAC
pH	s.u.	Min	6.0	Single Sample	62-600.430, 62-302.530(52) & 62-650 FAC
pH	s.u.	Max	8.5	Single Sample	62-600.430, 62-302.530(52) & 62-650 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-600.440(5)(c) FAC
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	62-600.440(2) & 62-302.530(18) FAC
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62- 4.241(1)(a) FAC
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	62-302.200(1), 62-302.500(1)(a)4 & 62- 4.241(1)(a) FAC
Nitrogen, Total	mg/L	Max	6.0	Annual Average	62-600.740(2)(b)1 and 62-650 FAC
Nitrogen, Total	mg/L	Max	7.5	Monthly Average	62-600.740(2)(b)2 FAC
Nitrogen, Total	mg/L	Max	9.0	Weekly Average	62-600.740(2)(b)3. FAC
Nitrogen, Total	mg/L	Max	12.0	Single Sample	62-600.740(2)(b)4. FAC
Nitrogen, Ammonia, Total (as N)	mg/L	Max	1.0	Annual Average	62-600.740(2)(b)1. FAC
Nitrogen, Ammonia, Total (as N)	mg/L	Max	1.25	Monthly Average	62-600.740(2)(b)3 FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Ammonia, Total (as N)	mg/L	Max	1.5	Weekly Average	62-600.740(2)(b)3. FAC
Nitrogen, Ammonia, Total (as N)	mg/L	Max	2.0	Single Sample	62-600.740(2)(b)4. FAC
Phosphorus, Total (as P)	mg/L	Max	1.0	Annual Average	62-600.740(2)(b)1 FAC and 62-650
Phosphorus, Total (as P)	mg/L	Max	1.25	Monthly Average	62-600.740(2)(b)2 FAC
Phosphorus, Total (as P)	mg/L	Max	1.5	Weekly Average	62-600.740(2)(b)3. FAC
Phosphorus, Total (as P)	mg/L	Max	2.0	Single Sample	62-600.740(2)(b)4. FAC
Nitrogen, Total	lb/yr	Max	19342	Annual Total	403.067, FS
Nitrogen, Total	lb/mth	Max	Report	Monthly Total	403.067, FS
Phosphorus, Total (as P)	lb/yr	Max	2345	Annual Total	403.067, FS
Phosphorus, Total (as P)	lb/mth	Max	Report	Monthly Total	403.067, FS
Stream Stage	ft	Min	1.2	Single Sample	62-4.070 and 62-620.320, FAC (BPJ)
Rainfall	in	Max	Report	Single Sample	62-4.070 and 62-620.320, FAC (BPJ)
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	62-600.430 FAC
Chlorodibromomethane*	ug/kg	Max	34.0	Annual Average	62-302.530(35)(b)2 FAC
Cyanide, Total (as CN) *	ug/L	Max	5.2	Single Sample	62-302.530(24)
Dichlorobromomethane*	ug/kg	Max	22.0	Annual Average	62-302.530(35)(b)5
Hardness, Total (as CaCO ₃)	mg/L	Max	Report	Single Sample	62-302.530
Mercury, Total Recoverable*	ug/L	Max	Report	Single Sample	62-302.530(41) FAC
Phenolic Compounds, Total Recoverable*	ug/L	Max	1.0	Single Sample	62-302.530(53)(b)
Silver, Total Recoverable*	ug/L	Max	Report	Single Sample	62-302.530(60)

Unless otherwise noted, effluent limitations were developed by applying water quality criteria at the end of pipe.

In addition to the specified limits, the monthly average effluent CBOD₅ and total suspended solids concentrations shall not exceed 15% of the respective influent values (85% Removal).

Pollutants of concern were identified for WQBEL development based on an evaluation of all available information, including a characterization of the pollutants that may be discharged, fifth year inspection data, the sources of pollutants, existing controls on pollutants, available dilution, background pollutant levels in the receiving waters, and the toxicity of pollutants. An Administrative Order is issued with this permit, providing interim limits for some of the priority pollutants (*) that were identified as potential contaminants in the expanded effluent tests and need additional data to provide reasonable assurance.

- Technology based effluent limitations (TBELs) are minimum waste treatment requirements based on treatment technologies for reducing discharges of pollutants into receiving waters. TBELs are established, for domestic wastewater facilities, by state rule and statute in Chapters 62-600, 62-610, 62-620, F.A.C., and Section 403.086, F.S.; they may also be developed in accordance with best professional judgment. TBELs are included in the permit for the following pollutants of concern:

Parameter	Units	Monitoring Location	Monitoring Group
Flow (To river)	MGD	FLW-1	D-001
Chlorine, Total Residual (For Disinfection)	mg/L	EFA-1	D-001

Because there is no established relationship between fecal coliform and E. coli bacteria, limitations based on both the disinfection requirements for fecal coliform from subsection 62-600.440(5), F.A.C., and based on the bacteriological water quality standards for E. coli for discharges to Class III predominately fresh waters under Rule 62-302.530, F.A.C., have been included in the permit.

- Water quality based effluent limitations (WQBELs) are effluent limitations, which may be more stringent than a technology based effluent limitation, that have been determined necessary by the Department to ensure that water quality standards in a receiving body of water will not be violated. WQBELs are developed in accordance with Chapter 62-650, F.A.C., and are based on the characteristics of the discharge, the receiving water characteristics, and the criteria and standards in Chapters 62-4, 62-302, and the 62-600 series, F.A.C.; they may also be developed based on Total Maximum Daily Load (TMDL) allocations adopted in Chapter 62-304, F.A.C., or allocations developed as part of a Basin Management Action Plan (BMAP) or a Reasonable Assurance Plan (RAP). WQBELs are included in the permit for the following pollutants of concern:

Parameter	Units	Monitoring Location	Monitoring Group
BOD, Carbonaceous 5 day, 20C	mg/L	EFD-1	D-001
Solids, Total Suspended	mg/L	EFD-1	D-001
Coliform, Fecal	#/100mL	EFA-1	D-001
pH	s.u.	EFD-1	D-001
Chlorine, Total Residual (For Dechlorination)	mg/L	EFD-1	D-001
Nitrogen, Total	mg/L	EFD-1	D-001
Nitrogen, Ammonia, Total (as N)	mg/L	EFD-1	D-001
Phosphorus, Total (as P)	mg/L	EFD-1	D-001
Nitrogen, Total	lb/yr	EFD-1	D-001
Nitrogen, Total	lb/mth	EFD-1	D-001
Phosphorus, Total (as P)	lb/yr	EFD-1	D-001
Phosphorus, Total (as P)	lb/mth	EFD-1	D-001
Stream Stage	ft	OTH-1	D-001
Rainfall	in	OTH-2	D-001
Oxygen, Dissolved (DO)	mg/L	EFD-1	D-001
Chlorodibromomethane	ug/kg	EFD-1	D-001
Cyanide, Total (as CN)	ug/L	EFD-1	D-001
Dichlorobromomethane	ug/kg	EFD-1	D-001
Hardness, Total (as CaCO3)	mg/L	EFD-1	D-001
Mercury, Total Recoverable	ug/L	EFD-1	D-001
Phenolic Compounds, Total Recoverable	ug/L	EFD-1	D-001
Polycyclic Aromatic Hydrocarbons, Total	ug/L	EFD-1	D-001
Silver, Total Recoverable	ug/L	EFD-1	D-001

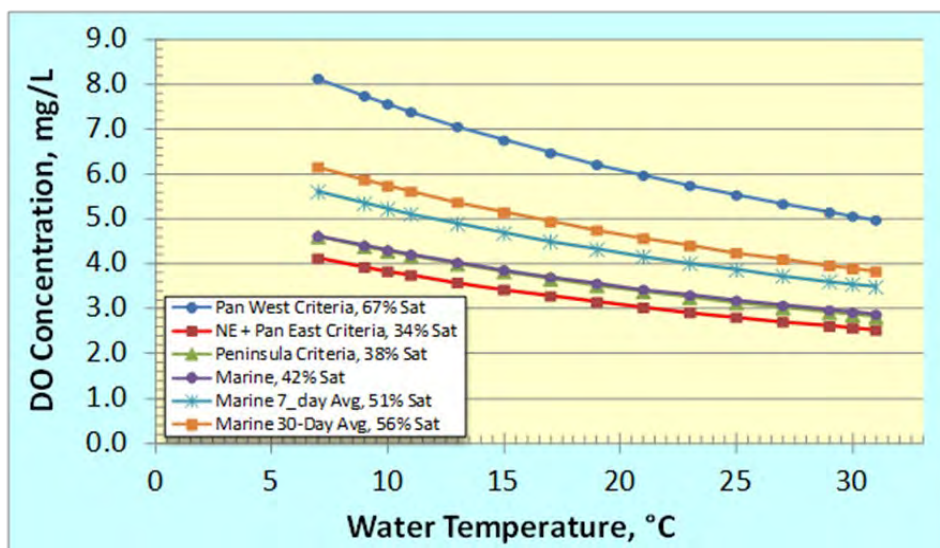
The Department has adopted a Total Maximum Daily Load (TMDL) for this segment of the St. Johns River. The Wasteload Allocation (WLA) for this facility is **19,342 lbs/year Total Nitrogen (TN) and 2,345 lbs/year Total**

Phosphorus (TP), based on a calendar year. The DEP TMDL as listed in Rule 62-304.520(6)(a), F.A.C. is in compliance with the Numeric Nutrient Criteria (NNC) for DEP Hierarchy 1 criteria under Rule 62-302.531(2)(a), F.A.C. Summarized data submitted in the Engineering report indicates compliance with these standards.

This facility is permitted for a continuous discharge of up to 1.0 MGD but, because it is a back-up to the reuse system, and an intermittent discharge, acute toxicity testing was previously required. Due to the intermittent nature of the discharge, and the expectation of even less frequent discharges, acute toxicity testing will continue to be required in this permit. Rule 62-302.500(1)(a)4, F.A.C. requires that surface waters of the State shall not be acutely toxic. In order to demonstrate compliance with this rule, the permit requires the performance of 96-hour static renewal multi-concentrate acute toxicity tests to be conducted on freshwater test species. Department guidelines require the use of freshwater test species to demonstrate unacceptable acute toxicity (“at the end of the discharge pipe”). Whole Effluent Toxicity Tests will be conducted on an annual basis for the duration of this permit.

For this segment of the St. Johns River (WBID# 2893C), dissolved oxygen (DO) met the verification threshold and total nitrogen and BOD were identified as the causative pollutants. DO was delisted from the 1998 303(d) List in Cycle 1, but was assessed as verified impaired in Cycle 2.

The single sample dissolved oxygen (DO) minimum of 5.0 was not changed to the new FDEP dissolved oxygen criteria (effective August 2013 and accepted by EPA September 2013) which is based on saturation, because the single sample limit of 5.0 is as stringent as, or more stringent than, the new criteria. As seen in the graph below, the state peninsula (area) criteria at 38% saturation and marine criteria at 42% are always below a DO of 5.0 independent of the temperature.



This facility has provided reasonable assurance that the discharge will not adversely affect the designated use of the receiving water. Effluent characterization of the discharge, historical discharge monitoring results, inspection sampling data, flow information and effluent characterizations of existing discharges to the receiving body, and water quality data for the receiving body have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards. The technical and scientific work that was conducted in developing the final effluent permit limits is included in the administrative record.

This facility is authorized to direct reclaimed water to Reuse System R-001, a slow-rate public access system, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	15.414	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
Flow (To Site 10)	MGD	Max	2.84	Annual Average	62-600.400(3)(b) FAC
		Max	Report	Monthly Average	62-600.400(3)
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.460 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.460 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.460 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(6)(a)3. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(6)(a)2. FAC
Coliform, Fecal, % less than detection	percent	Min	75	Minimum Total	62-610.460 & 62-600.440(6)(a)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(6)(b), 62-610.460(2), & 62-610.463(2) FAC
Solids, Total Suspended	mg/L	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
Flow (from Lake Monroe)	MGD	Max	Report	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
Nitrogen, Total	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC

Turbidity monitoring is not required due to the facility performs continuous TSS monitoring. [62-610.320(6)(g)]

Monitoring for total nitrogen (TN) and total phosphorus (TP) are required as allowed by Rule 62-600.650(3), FAC, to evaluate impacts of reclaimed water to ground and surface waters in an impaired water basin.

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (total through plant)	MGD	Max	7.3	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	3-Month Rolling Average	62-600.700(2)(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	62-600.660(1) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-600 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-600, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

4. IMPAIRMENT STATUS OF RECEIVING WATERS

Under Section 303(d) of the Clean Water Act, the Department is required to submit lists of impaired waters to EPA. The direct and downstream receiving water bodies for this facility's discharge to surface waters is listed on the 303(d) list. The DEP TMDL as listed in Rule 62-304.520(6)(a), F.A.C. is in compliance with the Numeric Nutrient Criteria (NNC) for DEP Hierarchy 1 criteria under Rule 62-302.531(2)(a), F.A.C. Summarized data submitted in the Engineering report indicates compliance with these standards.

5. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The wastewater permit for this facility FL0020141-020-DW1P expires on **October 4, 2025**. Several parameters with water quality standards are included for monitoring in this permit because they were detected at levels that may indicate the potential to exceed the standards, but the data is too limited to be able to make this determination. An Administrative Order is included to address this concern. The permit authorizes completion of the biosolids treatment system and the construction/installation of a new disc filtration system. Limitations based on both the disinfection requirements for fecal coliform from subsection 62-600.440(5), F.A.C., and based on the bacteriological water quality standards for E. coli for discharges to Class III predominately fresh waters under Rule 62-302.530, F.A.C., have been included in this permit.

6. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to a permitted BTF, treated to Class A or AA standards and certified as fertilizer (after completion of the new stabilization process), or disposed of in a Class I solid waste landfill.

See the table below for the rationale for the Class A biosolids limits and monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	85.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	4300.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Lead, Dry Weight, Sludge	mg/kg	Max	840.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	57.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Selenium Sludge Solid	mg/kg	Max	100.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	7500.0	Single Sample	62-640.650(3)(a)3. & 700(5)(a) FAC
pH	s.u.	Max	Report	Single Sample	62-640.650(1)(b) FAC
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	62-640.600(1)(a) FAC
Salmonella Sludge	MPN/4g	Max	3.0	Single Sample	62-640.600(1)(a) FAC
Monitoring Frequency	All Parameters				62-640.650(3)(a)4. FAC
Pathogen and vector attraction reduction monitoring	All Parameters				62-640.600 & 650(3)(a)1. FAC

See the table below for the rationale for the Class AA biosolids limits and monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	41.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	75.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	39.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	85.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	1500.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	4300.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Lead, Dry Weight, Sludge	mg/kg	Max	300.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	840.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	17.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	57.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
		Max	420.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
	mg/kg	Max	100.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Selenium Sludge Solid		Max	100.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	2800.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
		Max	7500.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
pH	s.u.	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
		Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	62-640.600(1)(a) FAC
Salmonella Sludge	MPN/4g	Max	3.0	Single Sample	62-640.600(1)(a) FAC
Monitoring Frequency		All Parameters			62-640.650(3)(a)4. & .850(4)(c) FAC
Pathogen and vector attraction reduction monitoring		All Parameters			62-640.600 & 650(3)(a)1. FAC

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

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Received)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Distributed & Marketed in FL)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. & 850(4)(a) FAC
Biosolids Quantity (Distributed & Marketed outside FL)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. & 850(4)(a) FAC
Monitoring Frequency		All Parameters			62-640.650(5)(a) FAC

7. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-520, 532, 600, 610, and 620, F.A.C.

8. PERMIT SCHEDULES

An Administrative Order accompanies this permit which includes a schedule and interim limits.

9. 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.

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

This permit is accompanied by AO-CD-20-WW-141, effective with issuance of this permit, which includes a schedule of compliance. The AO is hereby incorporated by reference. Interim limits are needed to provide the permittee additional time to determine if there is the reasonable potential to exceed water quality standards for several priority pollutants. The three scans performed for permit renewal were inconclusive for these parameters: cyanide, silver, PAHs, Total Phenolic compounds, mercury, CDBM, and DCBM. Additional data are needed to determine if there is reasonable potential that the water quality standards will be exceeded in the effluent.

11. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

12. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection here:

<https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/FL0020141/facility!search>

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft Permit and Public Notice to Applicant and EPA	June 29, 2020
Public Comment Period	Beginning: July 7, 2020 Ending: August 6, 2020
Proposed Permit to EPA	August 14, 2020
Notice of Intent to Issue	August 14, 2020
Notice of Permit Issuance	October 6, 2020

14. DEP CONTACT

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

Dennise Judy
Permitting and Waste Cleanup Program
Central District Office

3319 Maguire Blvd
Suite 232
Orlando, FL 32803-3767

Telephone No.: 407-897-4100



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: **FL0020141**

Wastewater facility name: Sanford/North WWTF

Permittee name: Sanford, City of

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: FL0020141

FACILITY NAME: Sanford/North WWTF

FACILITY ADDRESS: 1201 West Seminole Boulevard, Sanford, FL 32771

PERMITTEE NAME: Sanford, City of

MAILING ADDRESS: 300 N Park Ave, Sanford, Florida 32771- 1244

DATE OF SAMPLING: _____

Parameter	Quantity or Loading		Quality or Concentration	
	Sample Measurement	Units	Sample Measurement	Units
Treatment Plant: After Filter Monitoring Site No.				
Turbidity PARM Code 00070				NTU
TSS PARM Code 00530				mg/L
Treatment Plant: After Disinfection Monitoring Site No.				
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		

Table 2-21: Sanford Reclaimed Water System - Current Reclaimed Water Sites

Site	Acreage (ac)	Disposal Capacity	
		(MGD)	(kgal/month)
ACI PD	5.02	0.0200	608
Altamese Bentley Elementary	6.80	0.0180	548
Andres Flower Farm	14.00	0.0060	183
Bay Avenue Park	2.40	0.0140	426
Bel-Air / Palm Way	0.80	0.0032	97
Bel-Air / Rose Way	1.00	0.0039	119
Best Buy	31.00	0.0620	1,886
Big Inch - Spaghetti Bowl	3.00	0.0070	213
Big Inch - Goldsboro	3.00	0.0070	213
Big Inch - #2	4.30	0.0100	304
Calabria Cove Subdivision	6.40	0.0100	304
Celery Key	126.90	0.3807	11,580
Celery Lakes	32.00	0.0960	2,920
Celery Park Estates	23.94	0.0720	2,190
Cemetery	27.30	0.1059	3,221
Centennial Park	2.20	0.0051	155
Charleston Club Apts.	4.95	0.0180	548
Chase Park	6.80	0.0158	481
Chief Williams Park	0.90	0.0040	122
City Hall	1.50	0.0035	106
Coastline Park	4.20	0.0098	298
Country Club Park Subdivision	48.00	0.0600	1,825
County Complex	83.60	0.2000	6,083
Courtesy Acura	2.07	0.0080	243
Courtesy Honda	2.96	0.0120	365
Crown Colony Subdivision	6.93	0.0210	639

Table 2-21: Sanford Reclaimed Water System - Current Reclaimed Water Sites

Site	Acreage (ac)	Disposal Capacity	
		(MGD)	(kgal/month)
Cultural Arts Building	0.20	0.0100	304
Dakotas Subdivision	4.82	0.0070	213
Dutch Mill Nursery	8.00	0.0070	213
Elm Avenue Park	2.20	0.0051	155
Flagship	19.05	0.0572	1,738
Fort Mellon - Playground	8.65	0.0201	611
Fort Mellon - Softball Field	9.88	0.0230	700
Fort Mellon - Lake Carolla	3.71	0.0086	262
Fort Mellon - Civic Center	2.47	0.0058	176
Gateway PD	31.29	0.1250	3,802
Goldsboro Baseball Field	2.20	0.0051	155
Greystone Townhomes	84.95	0.1700	5,171
Groveview Addition	690.00	0.0535	1,627
Hamilton Elem. School	6.00	0.0300	913
Hood Avenue Parking Lot	3.10	0.0124	377
Hoops Farm	9.00	0.0600	1,825
Lake Gem Park	3.60	0.0279	849
Lake Mary Landings	15.85	0.0476	1,448
Lake Mary Medians	60.00	0.2400	7,300
Lake Mary Misc. Sites		0.0323	982
Lake Mary Soccer Fields	12.00	0.0480	1,460
Lake Mary Softball Fields	23.00	0.0920	2,798
Lake Mary Tri-Party		0.1500	4,563
Lake Mary Woods	86.64	0.0380	1,156
Mangoustine Medical Office	0.24	0.0010	30
Mayfair Club Subdivision	20.00	0.0800	2,433

Table 2-21: Sanford Reclaimed Water System - Current Reclaimed Water Sites

Site	Acreage (ac)	Disposal Capacity	
		(MGD)	(kgal/month)
Mayfair Golf Course	120.00	0.6309	19,190
Mayfair Oaks Subdivision	29.33	0.1170	3,559
Memorial Park	2.50	0.0100	304
Mid-Florida IMPC	50.00	0.2000	6,083
Misc. Residential Areas		0.4967	15,108
North Seminole Business Park	4.70	0.0141	429
Northgate PD	24.70	0.0988	3,005
Northstar Business Park	23.60	0.0183	557
Pamala Oaks Subdivision	4.92	0.0200	608
Pinehurst Park	10.00	0.0233	709
Public Works Complex	2.00	0.0080	243
Regency Oaks	27.16	0.0815	2,479
Retreat at Twin Lakes	28.00	0.0840	2,555
Russells Tree Farm	30.00	0.0120	365
Sam's Club	4.66	0.0180	548
Sanford Central Park II	45.50	0.1820	5,536
Sanford Middle School	11.90	0.0585	1,779
Sanford North WRF	15.40	0.0358	1,089
Sanford South WRC	5.00	0.0120	365
Seminole Comm. College	200.0	0.8000	24,333
Sem. Co / Lake Mary Tri-Party		3.0500	92,771
Seminole Co. Sch. Board	5.00	0.0110	335
Site 10	1,800.0	2.8900	87,904
Southside Park	2.20	0.0051	155
Speer Park	1.50	0.0116	353
St. Johns Business Park	11.89	0.0357	1,086

Table 2-21: Sanford Reclaimed Water System - Current Reclaimed Water Sites

Site	Acreage (ac)	Disposal Capacity	
		(MGD)	(kgal/month)
Stadium	8.00	0.0186	566
Sterling Meadows	62.24	0.1870	5,688
Sterling Woods Subdivision	62.00	0.1200	3,650
Stratford Apts.	7.44	0.0450	1,369
Timacuan Golf Course	130.00	0.7500	22,813
Towne Center Blvd.	4.04	0.0160	487
Traffic Median - North	0.70	0.0300	913
Tusca Bay	30.00	0.0900	2,738
Unicell Paper Co. - Irrigation	1.60	0.0040	122
Unicell Paper Co. - Process		0.5000	15,208
Wal-Mart	24.50	0.0490	1,490
Wal-Mart Out Parcels	7.52	0.0150	456
Wichlow Elementary	16.10	0.0640	1,947
Wyndham Place Apts.	4.62	0.0260	791
Total	4,378	13.368	407,291

The Sanford reclaimed water distribution system consists of the following components:

- Over sixty (60) miles of distribution system piping varying in size from 4-inch through 24-inch.
- A reclaimed water distribution pump station at the Sanford North WRF consisting of five (5) "canned" vertical turbine pumps designed to pump approximately 12.2 MGD to the various reclaimed water irrigation sites, with the largest pump out of service.

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