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March 13, 2023

Via Electronic Filing

Florida Public Service Commission
Office of Commission Clerk
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Application for Authority to Transfer - CSWR-Florida Utility Operating
Company, LLC; TKCB, Inc.

Dear Commission Clerk:

Attached please find an Application for Authority to Transfer filed by CSWR Florida Utility Operating Company, LLC relating to TKCB, Inc. A filing fee in the amount of \$750.00, as well as a Request for Confidential Classification as to Exhibit D, will be separately hand delivered to the Office of Commission Clerk.

Sincerely,

/s/ Thomas A. Crabb

Thomas A. Crabb
Susan F. Clark
Attorneys for Applicant
CSWR-Florida Utility Operating Company, LLC

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Application for transfer of wastewater facilities of TKCB, Inc. and Wastewater Certificate No. 562-S to CSWR-Florida Utility Operating Company, LLC, in Brevard County.

Docket No.: _____

APPLICATION FOR TRANSFER OF FACILITIES AND CERTIFICATE FROM A REGULATED UTILITY TO ANOTHER REGULATED UTILITY

CSWR-Florida Utility Operating Company, LLC (“CSWR-Florida UOC” or “Applicant”), pursuant to section 367.071, Florida Statutes, and rule 25-30.037(2), Florida Administrative Code, applies for transfer of the wastewater facilities of TKCB, Inc. and Wastewater Certificate No. 562-S in Brevard County.

FILING FEE

Pursuant to rule 25-30.020(2)(c), F.A.C., the filing fee of \$750.00 will be submitted concurrently with the filing of this application.

PART I. APPLICANT INFORMATION

A. Contact Information for Utility/Seller

Utility Name: TKCB, Inc.
Street Address: 616 Emerald Lake Drive
Cocoa, FL 32927
Mailing Address: 5600 North Cocoa Blvd.
Cocoa, FL 32927
Phone Number: (321) 639-1124
Fax Number: (321) 639-1134
FEIN: 59-2389300
Email address: taterry1971@yahoo.com
Website address: none
Water Certificate No.: none
Wastewater Certificate No.: 562-S

B. Contact Information for Seller’s Authorized Representative

Name: Thad Terry
Mailing Address: 5600 North Cocoa Blvd.
Cocoa, FL 32927
Phone Number: (321) 639-1124
Fax Number: (321) 639-1134
Email address: taterry1971@yahoo.com

C. Contact Information for Buyer/Applicant

Buyer's Name: CSWR-Florida Utility Operating Company, LLC
Office Street Address: 1630 Des Peres Road, Suite 140
St. Louis, MO 63131
Phone Number: (314) 736-4672
Fax Number: (314) 736-4743
FEIN: 38-4180174
Email address: regulatory@cswrgroup.com
New Utility Name: CSWR-Florida Utility Operating Company, LLC

The Buyer as defined in the purchase agreement is "Central States Water Resources, Inc., a Missouri corporation, or its assigns." Prior to closing, Central States Water Resources, Inc., or its affiliate, will assign all rights and interests to CSWR-Florida UOC.

D. Contact Information for Buyer's Authorized Representatives

Name: Susan F. Clark, Esq.
Thomas A. Crabb, Esq.
Mailing Address: Radey Law Firm
301 South Bronough Street, Suite 200
Tallahassee, FL 32301
Phone Number: (850) 425-6654
Fax Number: (850) 425-6694
Email addresses: sclark@radeylaw.com
tcrabb@radeylaw.com
sturner@radeylaw.com
dgueltzow@radeylaw.com

E. Contact Information for Person in Possession of Seller's Books and Records

Name: Thad Terry
Mailing Address: 5600 North Cocoa Blvd.
Cocoa, FL 32927
Phone Number: (321) 639-1124
Fax Number: (321) 639-1134
Email address: taterry1971@yahoo.com

If the Public Service Commission audits the books and records of the Utility/Seller as part of this docket, then the primary point of contact for the audit should be the Seller's Authorized Representative, Thad Terry. Applicant requests that Buyer's Authorized Representative, Tom Crabb (tcrabb@radeylaw.com; sturner@radeylaw.com), be copied on all audit correspondence, document and data requests, etc. from the Commission relating to the audit.

F. Buyer's Business Organization

The Applicant is a Florida limited liability company created on March 31, 2021, document number L21000150005. Applicant is not doing business under a fictitious name. Attached as **Exhibit A** are Applicant's Articles of Organization and documents from the Florida Department of State, Division of Corporations, showing Applicant's business name and active document number.

The Buyer/Applicant CSWR-Florida UOC is wholly owned by CSWR-Florida Utility Holding Company, LLC, a Florida limited liability company whose principal address is 1630 Des Peres Road, Suite 140, St. Louis, MO 63131.

PART II. TRANSFER OF CERTIFICATE

A. Description of Sale Agreement

Attached as **Exhibit B** is a copy of the executed Agreement for Sale of Utility System ("Agreement").

A closing date is not specified in the Agreement as closing is dependent upon, among other things, a Commission order authorizing transfer of the Seller's assets. All conditions that must be satisfied before closing are specified in Sections 8 and 9 of the Agreement.

The purchase price for the Seller's assets is located in Section 4 of the Agreement. The purchase price, less any earnest money, shall be payable in cash at closing by wired funds and shall be paid on the Closing Date as defined in Section 5 of the Agreement.

CSWR-Florida UOC is not acquiring any non-regulated assets or operations of the Seller and is not assuming any of Seller's liabilities or obligations. The transaction is limited to the acquisition of assets used to provide regulated utility service. As the list of assets being purchased, attached as **Exhibit C** is the Wastewater Utility Plant Accounts page from the Seller's 2021 Annual Report to the Commission.

In addition, Section 1 of the Agreement, and its Exhibits B through D, generally describe the property to be acquired, including land, improvements, and rights of way, tools, devices, equipment, furniture, fixtures, machinery, supplies, and other material tangible items; however, the dollar values of those items are not individually identified.

The purchase price will be paid in cash at closing. There is no other consideration between the parties, including salaries, retainer fees, stock, stock options, or assumption of any Seller's obligations.

Under the terms of the Agreement, CSWR-Florida UOC is not acquiring or assuming responsibility for pre-closing obligations of the Seller, including Seller's obligations related to customer deposits. Prior to closing, it would be Seller's responsibility to return any such deposits in accordance with Florida Commission rules and Seller's approved tariffs. Prior to closing,

CSWR-Florida UOC will review all leases and developer agreements and will assume or renegotiate those agreements on a case-by-case basis. Any customers or developers who paid advances to the Seller prior to closing will be given full credit for those payments after closing.

Upon closing, CSWR-Florida UOC will fulfill the commitments, obligations, and representations of the Seller with regard to utility matters.

CSWR-Florida UOC has or will obtain the books and records of the Seller, including all supporting documentation for rate base additions since the last time rate base was established. The books and records of CSWR-Florida UOC will be maintained using the NARUC Uniform System of Accounts.

CSWR-Florida UOC will comply with the requirements of Rule 25-30.110(1)(b) and (c), F.A.C., regarding maintenance of utility records at another location.

B. Financial Ability

CSWR-Florida UOC was created for the purpose of acquiring and operating water and wastewater systems in Florida as a public utility. As it has recently acquired its first systems in Florida, the Applicant does not yet have its own financial statements. In lieu of such information, the 2021 and 2020 audited financial statements of CSWR, LLC and its subsidiaries are provided in redacted form and attached as **Exhibit D**. An unredacted version of Exhibit D, along with a Request for Confidential Classification for the same, will be separately filed.

Attached as **Exhibit E** is the CSWR organization chart showing CSWR-Florida UOC and its affiliates. No partner or affiliated company has provided debt financing to CSWR, LLC (“CSWR”).

To fund the acquisition proposed in this application, CSWR will invest sufficient equity in CSWR-Florida UOC to (a) pay the purchase price and all costs related to the acquisition of assets currently owned by the Seller; (b) fund necessary capital improvements; and (c) provide working capital to sustain operations until fully compensatory rates are implemented and CSWR-Florida UOC becomes self-sufficient.

C. Technical Ability

1. Experience In The Water And Wastewater Industry

CSWR-Florida UOC is part of an affiliated group of holding and utility operating companies currently providing water and wastewater services to customers in Florida, Missouri, Arkansas, Kentucky, Texas, Louisiana, Tennessee, Mississippi, Arizona, South Carolina, and North Carolina. The affiliate group includes CSWR, which employs personnel with managerial and operational expertise necessary to provide essential services to its utility affiliates. The services CSWR provides include, but are not limited to, executive management, administrative, legal, accounting, finance, engineering, accounts payable, billing, and risk management. CSWR also invests equity capital used to acquire utility assets and systems (such as those for which

authority is sought by this application), make required capital improvements, and provide working capital necessary to operate those systems until they become self-sufficient.

Since their formation, CSWR and its affiliates have invested more than \$397 million to acquire and operate water and wastewater systems in Florida, Missouri, Arkansas, Kentucky, Louisiana, Texas, Mississippi, Tennessee, North Carolina, South Carolina, and Arizona. Combined, these systems currently serve approximately 136,000 water and 210,600 wastewater customers. In each of those jurisdictions, state utility regulators determined CSWR and its affiliates have the financial strength and the managerial and operational experience and expertise necessary to acquire, improve, own, and operate water and wastewater systems in a manner that serves the public interest.

CSWR's operating company affiliates have also filed or soon will file additional acquisition applications in Missouri, Texas, Kentucky, Arizona, North Carolina, Louisiana, Mississippi, California, and Tennessee.

CSWR's business plan is to purchase and recapitalize water and wastewater systems and to operate those systems as investor-owned regulated utilities. Many of the systems acquired are not providing safe and reliable service and are out of compliance with state utility commission rules and with federal and state environmental or public health laws. Many of the systems also lack the federal and/or state permits required to lawfully operate. Finally, many of the acquired systems have not increased rates for a decade or more and therefore lack the financial resources necessary to build, maintain, and make replacements to the systems.

In other states, CSWR's utility operating companies have acquired distressed systems, invested the capital necessary to construct or repair the physical facilities, and provided the managerial experience and expertise required to operate those systems in a way that satisfies customers, regulators, and investors alike. If this application is approved, CSWR-Florida UOC would hire one or more unaffiliated operations and maintenance firms (preferably local) that have knowledgeable and experienced personnel and that hold all Florida licenses necessary to manage daily operations of the system at issue in this application. CSWR-Florida UOC would also use an unaffiliated customer service firm – the same firm currently used by its affiliates outside Florida.

CSWR has developed a centralized computerized maintenance management system that monitors the performance of its water and wastewater systems and allows personnel to track ongoing maintenance and testing activities of all third-party contractors. In addition, CSWR uses GIS survey information to accurately map all infrastructure assets, which enables anticipatory and targeted infrastructure investment. CSWR's outside firms are required to provide 24-hour emergency service phone numbers to report service issues, provide on-call emergency service personnel who must respond within prescribed time limits, use a computerized maintenance management system for wastewater and drinking water utility assets, provide online bill payment options, and use up-to-date website bulletins about current service status.

While day-to-day operational, and customer service functions would be provided by contractors, all management, financial reporting, underground utility safety and location services,

Commission regulatory reporting, environmental regulatory reporting and management, operations oversight, utility asset planning, engineering planning, ongoing utility maintenance, utility record keeping, and final customer dispute management would be performed by personnel at CSWR's corporate office. CSWR personnel also would monitor the activities of contractors to make sure the systems are being operated and maintained properly and customer needs are being met.

Brief biographies of CSWR's key executive and operational leaders are attached as **Exhibit F**. Additional information regarding CSWR and its affiliates, including case studies showing the significant improvements made in some of the acquired systems can be found on CSWR's website: <https://www.centralstateswaterresources.com>.

2. Continued Operation Of The Utilities

CSWR-Florida UOC plans to use one or more appropriately qualified and licensed contract operators to handle day-to-day inspections, checks, sampling, reporting, and meter reading. The contract operator also would be responsible for necessary system repairs, as well as extraordinary issues that arise from time to time, to ensure proper facility operations. All contractor activities would be tracked by a computerized maintenance system. In addition, a computerized plant monitoring system would integrate repair and system operations data into a single water information management platform that includes all systems operated by CSWR-Florida UOC's affiliates. Contractors providing day-to-day operations and maintenance services are selected through a competitive bidding process.

The Applicant will use a contractor for customer service. The contractor's staff would field and process customer bill and service inquiries, make bill adjustments, address customer requests for payment plans, and interact with Commission Staff regarding billing issues as necessary. Billing contractor employees are trained to route any customer service complaints and inquiries to the service contractor.

The contractor providing billing and related services for CSWR affiliates in Missouri, Arkansas, Kentucky, Texas, Louisiana, Mississippi, Arizona, North Carolina, South Carolina, and Tennessee would likely be used in Florida. By using this contractor, Nitor Billing Services, LLC, CSWR-Florida UOC would have access to proprietary systems developed to meet the needs of the affiliate group and its customers. CSWR-Florida UOC also would benefit from economies of scale available from a systemwide customer service vendor.

As needed, CSWR-Florida UOC would implement operational changes to improve and enhance customer service. In addition, upon acquisition, customers would have access to a 24-hour phone line to report any utility service issues. Those calls would then be transferred into the computerized maintenance management system and converted into work orders, which creates a historical record of all reported service issues. The work order also would ensure contracted customer service personnel can commence work required to address customer service issues quickly and efficiently. The Applicant would ensure customers served by the system have access to customer service representatives during normal business hours to talk about any customer concerns. Additionally, CSWR-Florida UOC would establish a utility-specific webpage and

dedicated email address to keep customers informed about their utility service. Mirroring the relevant utility homepage information, the Applicant will also implement a dedicated social media page to offer another avenue of communication with customers about utility matters. The social media account will be staffed by customer service representatives who can quickly answer customer questions. Finally, the Applicant would offer online bill paying options to customers including e-checks and debit and credit cards.

D. Territory Description, Public Interest, and Facilities

1. Territory Description

Attached as **Exhibit G** is a copy of the legal description of the proposed service area in Brevard County, Florida - the same territory currently served by the Seller.

2. Public Interest

Approving the proposed transfer of the wastewater system is in the public interest. CSWR has demonstrated it has the managerial and operational expertise and experience necessary to own and operate many water and wastewater systems. It also has access to the capital necessary to repair and upgrade systems to ensure they comply with all health and environmental regulations and provide safe and reliable service to customers.

CSWR's utility operating companies have a proven track record of acquiring small, oftentimes distressed, water and wastewater systems, making the repairs and upgrades those systems require, and operating them in a way that pleases utility and environmental regulators alike. Utility and environmental regulators in several states have sought out CSWR affiliates to become the emergency operator of systems in need of immediate aid. The Missouri Public Service Commission and the Missouri Department of Natural Resources have recognized the solid track record CSWR affiliated utilities have established for acquiring, rehabilitating, maintaining, and operating troubled water and wastewater systems in that state. Moreover, CSWR-Florida was appointed by the Charlotte County circuit court as receiver for the abandoned North Charlotte water and wastewater facility. In all the states where we have been authorized to acquire systems, the public utility commission found that the group has the financial, technical, and managerial ability necessary to serve the public. Moreover, in many of our states, the regulators have approved multiple acquisitions, showing that CSWR has established a track record of service in the public interest.

As our website states, the mission of CSWR and its affiliated utilities is to bring safe, reliable, and environmentally responsible water resources to every community in the United States. As it works to accomplish that objective, the group is transforming how water utilities work by using technology and innovation to quickly assess and invest in reliable infrastructure that meets or exceeds stringent state and federal safety standards, ensuring all communities have access to safe, clean, and reliable water resources while protecting essential natural resources.

3. Condition Of The System

Pursuant to rule 25-30.037(2)(q) F.A.C., the system is in need of repairs and improvements. No governmental authorities are presently requiring repairs or improvements to the systems. If and when a more current and comprehensive engineering analysis of the system becomes available, CSWR-FL UOC will provide it as **Exhibit H** to this application.

4. Right To Continued Long-Term Use Of Land

Attached as **Exhibit I** is an unrecorded draft deed. CSWR-Florida UOC commits to filing the executed and recorded deed with the Commission within sixty (60) days after closing. See Sections 2 and 6.D. of the Agreement for additional information relating to title transfer.

5. Current Permits

Attached as **Exhibit J** is the Seller's current permit from the Florida Department of Environmental Protection ("DEP"). The Seller does not have a permit with a water management district since it is a wastewater only utility.

The DEP advises that it cannot process a transfer application for this permit until after title closing of the real estate, which cannot occur until after the Commission approves the acquisition. Accordingly, CSWR-Florida UOC commits to filing with the Commission a copy of the DEP transfer application within sixty (60) days of closing.

6. Most Recent DEP and/or County Health Department Reports

Attached as **Exhibit K** is a copy of the most recent DEP compliance inspection report. There are no secondary water quality standards reports since TKCB is a wastewater only utility.

7. Correspondence with the DEP, County Health Department, and Water Management District

Correspondence and reports submitted to DEP are available at the below link. For convenience, attached as **Exhibit L** are copies of the most recent correspondence with the DEP. There is no correspondence with the County Health Department or water management district within the past five years.

DEP - Regarding wastewater system (DEP Facility ID # FLA010353):
<https://prodenv.dep.state.fl.us/DepNexus/public/electronic-documents/FLA010353/facility!search>

8. Customer Complaints

The Seller advises it has not received any customer complaints regarding DEP secondary water quality standards during the past five years.

E. Proposed Tariff

Attached as **Exhibit M** is the Seller's current tariff sheets containing the Seller's current rates.

F. Accounting Information

1. Proposed Net Book Value; Acquisition Adjustment; Rate Base

Net Book Value

The best information currently available regarding the Net Book Value ("NBV") of the assets that CSWR-Florida UOC proposes to acquire is TKCB's 2021 Annual Report. As shown on page F-4 of that report (attached as **Exhibit N**), as of December 31, 2021, the NBV of TKCB's wastewater system was \$78,305 (Total Net Utility Plant less Total Net C.I.A.C.). Please note that based on the experience of CSWR operating company affiliates outside Florida, annual reports and the books and records of selling utilities may not capture all investment that can be categorized as utility plant under the Uniform System of Accounts. Therefore, CSWR-Florida UOC will not be able to definitively determine NBV until a thorough post-closing review of relevant plant and accounting records is completed.

Acquisition Adjustment

The agreed purchase price for TKCB's assets was reached through arms-length negotiations. As there is no water system involved, the entirety of the purchase price is allocated to the wastewater system assets for regulatory purposes. CSWR-Florida UOC seeks recognition of the full purchase price in its rate base for future ratemaking purposes. Accordingly, CSWR-Florida UOC requests a positive acquisition adjustment for the difference between the purchase price and the NBV, based on extraordinary circumstances as provided in rule 25-30.0371, F.A.C. The financial strength and managerial and operational experience of CSWR will provide benefits to customers in terms of cost-efficiencies, quality of service improvements, improvements in regulatory compliance and rate stability over the long-term. CSWR has a proven track record in delivering on promises to improve utility service and customer satisfaction.

At this time, CSWR-Florida UOC is unable to quantify the impact to customers of the requested acquisition adjustment due to the many variables that can impact rates. These variables include capital structure, ROI, amortization periods, and various other factors that could influence the projected impact.

The rule factors supporting the requested positive acquisition adjustment are discussed in more detail below.

Cost Efficiencies

CSWR's size and its consolidation of many small systems under one financing and managerial entity will result in cost efficiencies in the operation of the Seller's wastewater system, particularly in the areas of:

- PSC and environmental regulatory reporting;
- Managerial and operational oversight;
- Utility asset planning;
- Engineering planning;
- Ongoing utility maintenance;
- Utility record keeping;
- Customer service responsiveness; and
- Improved access to capital necessary to repair and upgrade the system to ensure compliance with all health and environmental requirements and ensure service to customers remains safe and reliable.

The Applicant believes that customers would benefit from economies of scale and other advantages available from CSWR. While this does not necessarily reflect cost savings compared to the current operations expenses of the Seller, the advantages of this acquisition are reflected in CSWR's resources pertaining to customer service, an advanced computerized maintenance management system, and personnel with years of experience across over 800 water and wastewater plants. After owning and operating the system for a short period of time, the Applicant will be able to accurately assess costs to more accurately reflect the actual operating needs and characteristics of the system.

Improvements in Quality of Service

- Provision of 24-hour emergency service phone numbers to report service issues;
- On-call emergency service personnel who are required to respond to emergency service calls within prescribed time limits;
- Use of a computerized maintenance management system that converts information into work orders creating a historical record of service issues to ensure that customer service personnel can quickly address service issues;
- Access to managerial and operational resources not generally available to systems of these sizes and the ability to supplement local personnel with the resources of CSWR and other CSWR-owned systems;
- Online bill payment options; and
- An updated website that provides another avenue for customer communication, bulletins on current service status, procedures for service initiation and discontinuation, and educational information relevant to utility service.

CSWR-Florida UOC believes that the quality of service will be improved by its access to resources. In particular, the quality of service relating to Operations & Maintenance and Customer Service will improve drastically.

CSWR uses the Computerized Maintenance Management System (CMMS) program Utility Cloud to facilitate field work, inspections, maintenance schedules, and reporting for all facilities. This allows CSWR to manage data, work, and compliance across plant and distributed field assets. Utility Cloud has been implemented in other jurisdictions to assist in avoiding compliance and equipment failures with real-time data monitoring across people, machines, and sensors throughout all our service areas.

The main benefit that Utility Cloud offers CSWR is that the system is a highly configurable, easy-to-use asset management tool that helps all parties distribute work, report on maintenance, and streamline compliance reports. With the system being highly configurable, CSWR can build out the systems efficiently and begin tracking maintenance and improvements on day one of ownership. Most of the operators of this system require only a 4-hour training session to be able to navigate, create and assign work, and complete the Work Orders. The ability to get CSWR's contract operators trained so quickly speaks volumes to how easy the system is to operate. That initial training is adequate for 90% of our operators.

Features of Utility Cloud that CSWR has implemented that have been beneficial to our operations and that have streamlined time-consuming processes consist of:

- Automating the completion and submission of compliance reports using the exact field data crews collect;
- Using custom accounts, security roles, and user rights to maintain the separation between projects and managing multiple contractors while storing all CSWR's data in one database;
- Managing and tracking maintenance history on all assets to assist in identifying potential capital improvement projects;
- Creating custom alerts to trigger as issues arise;
- Leveraging digital SOPs, manuals, and layouts helping to standardize complex work and to meet regulatory and OSHA requirements;
- Creating powerful workflows and reports for our compliance objectives;
- Integrating with the survey database to create a useable asset for field work tracking; and
- Using real-time data and leveraging analytical tools to trend plant performance.

Utility Cloud is pivotal in the operation and maintenance of facilities. The ability to create custom workflows gives us the ability to collect asset and task-specific data quickly and efficiently. Using this system allows CSWR to quickly implement new processes that apply to all our sites across the country with the click of a button. This is the type of configuration scalability that CSWR requires and Utility Cloud delivers.

At this time, CSWR-Florida UOC is not able to quantify the cost savings of these improvements as the benefits provided in other jurisdictions revolve around quality of service and environmental sustainability rather than cost.

Anticipated Improvements in Compliance with Regulatory Mandates

- Necessary upgrades to the systems;
- Assessment of the compliance history of the wastewater system to identify improvements to achieve regulatory compliance and bring the system to a maintainable condition; and
- Use of technology and innovation to quickly assess and invest in needed infrastructure to ensure regulatory and environmental standards are met and resources are protected.

Rate Stability Over the Long Term

Consolidation of the management and operation of the TKCB system with the other CSWR systems will allow it to benefit from economies of scale that would otherwise not be available. Economies of scale will reduce ongoing costs and moderate the need for rate increases thus contributing to rate stability. Additionally, at the appropriate time, CSWR anticipates proposing the use of consolidated or uniform rates for the Florida systems it operates. Use of uniform rates will also contribute to rate stabilization by reducing the number and frequency of rate cases and mitigation of rate shock that might result from capital investments necessary to meet environmental, health and regulatory standards. Uniform rates can also result in cost of capital savings by providing revenue stability that will reduce financial risk and in savings associated with rate collection.

Rate Base:

Rate base was last established by the Public Service Commission in 2021. See Docket No. 20210120-SU and Order No. PSC-2021-0435-PAA-SU. A subsequent change to rate base was made effective June 18, 2022, due to the 2022 Price Index. Please see the Seller's current tariff sheets in **Exhibit M** to this application for transfer.

2. Federal Income Tax Returns

CSWR-Florida UOC has obtained copies of the federal income tax returns of the Seller since the rate base was last established by the Commission (2021).

3. Regulatory Assessment Fees, Fines, or Refunds

Any outstanding regulatory assessment fees, fines, or refunds must be fully satisfied by the Seller prior to closing. No such outstanding assessment fees, fines, or refunds are known to the Applicant. CSWR-Florida UOC will become responsible for paying the regulatory assessment fees and filing the annual report upon closing. The Seller remains responsible for the regulatory assessment fees and annual report until closing.

4. Economies of Scale

In addition to this Application, CSWR-Florida UOC has five other transfer application dockets presently pending before the Commission: 20220061-SU (BFF Corp.); 20220062-WS (C.F.A.T. H2O, Inc.); 20220063-WS (Tradewinds Utilities, Inc.); 20220064-WS (Tymber Creek

Utilities, Inc.); and 20220149-WS (Sebring Ridge Utilities, Inc.). Four other utilities have already been approved for transfer: 20210093-WS (Aqarina Utilities, Inc.); 20210095-WU (Sunshine Utilities of Central Florida, Inc.); 20210133-SU (North Peninsula Utilities Corporation); and 20220019-WU (Neighborhood Utilities, Inc.). Customers currently served by the Seller's utility would benefit from the technical and operational advantages of becoming part of the group of utilities affiliated with Central States Water Resources, as discussed above.

Across the affiliate group, Central States currently serves approximately 136,000 water and 210,600 wastewater customers in 11 states. As the costs of the centralized technical and operational resources of CSWR are spread over more customers, more economies of scale will be achieved.

G. Noticing Requirements

Attached as **Exhibit O** is CSWR-Florida UOC's proposed notice of application. As soon as the notice is approved, CSWR-Florida UOC will send the notice to all applicable customers and governmental entities, and will then file affidavits of noticing and publication as required.

[remainder of page intentionally left blank; signature page to follow]

PART III. SIGNATURE

APPLICATION SUBMITTED BY:

A handwritten signature in black ink, appearing to be 'Josiah Cox', written over a horizontal line.

Josiah Cox, President, on behalf of
CSWR-Florida Utility Operating Company, LLC

3/3/23

Date

EXHIBIT A



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Limited Liability Company
CSWR-FLORIDA UTILITY OPERATING COMPANY, LLC

Filing Information

Document Number	L21000150005
FEI/EIN Number	38-4180174
Date Filed	03/31/2021
Effective Date	03/31/2021
State	FL
Status	ACTIVE
Last Event	LC AMENDMENT
Event Date Filed	07/11/2022
Event Effective Date	NONE

Principal Address

1630 DES PERES RD.
SUITE 140
ST. LOUIS, MO 63131

Changed: 09/20/2022

Mailing Address

13421 Manchester Road, Suite 103
St. Louis, MO 63131

Changed: 01/25/2023

Registered Agent Name & Address

C T CORPORATION SYSTEMS
1200 S PINE ISLAND ROAD
PLANTATION, FL 33324

Authorized Person(s) Detail

Name & Address

Title MGR

CENTRAL STATES WATER RESOURCES, INC.
1630 DES PERES RD., SUITE 140
ST. LOUIS, MO 63131

Annual Reports

Report Year	Filed Date
2022	02/03/2022
2023	01/25/2023

Document Images

01/25/2023 -- ANNUAL REPORT	View image in PDF format
07/11/2022 -- LC Amendment	View image in PDF format
02/03/2022 -- ANNUAL REPORT	View image in PDF format
03/31/2021 -- Florida Limited Liability	View image in PDF format

**Electronic Articles of Organization
For
Florida Limited Liability Company**

L21000150005
FILED 8:00 AM
March 31, 2021
Sec. Of State
jsdennis

Article I

The name of the Limited Liability Company is:

CSWR-FLORIDA UTILITY OPERATING COMPANY, LLC

Article II

The street address of the principal office of the Limited Liability Company is:

1650 DES PERES RD.
SUITE 303
ST. LOUIS, MO. US 63131

The mailing address of the Limited Liability Company is:

1650 DES PERES RD.
SUITE 303
ST. LOUIS, MO. US 63131

Article III

The name and Florida street address of the registered agent is:

C T CORPORATION SYSTEMS
1200 S PINE ISLAND ROAD
PLANTATION, FL. 33324

Having been named as registered agent and to accept service of process for the above stated limited liability company at the place designated in this certificate, I hereby accept the appointment as registered agent and agree to act in this capacity. I further agree to comply with the provisions of all statutes relating to the proper and complete performance of my duties, and I am familiar with and accept the obligations of my position as registered agent.

Registered Agent Signature: ROSE SONG

Article IV

The name and address of person(s) authorized to manage LLC:

Title: MGR
CSWR-FLORIDA UTILITY HOLDING COMPANY, LLC
1650 DES PERES RD., SUITE 303
ST. LOUIS, MO. 63131 US

L21000150005
FILED 8:00 AM
March 31, 2021
Sec. Of State
jsdennis

Article V

The effective date for this Limited Liability Company shall be:

03/31/2021

Signature of member or an authorized representative

Electronic Signature: MADISON A WELDE

I am the member or authorized representative submitting these Articles of Organization and affirm that the facts stated herein are true. I am aware that false information submitted in a document to the Department of State constitutes a third degree felony as provided for in s.817.155, F.S. I understand the requirement to file an annual report between January 1st and May 1st in the calendar year following formation of the LLC and every year thereafter to maintain "active" status.

L21000150005

(Requestor's Name)

(Address)

(Address)

(City/State/Zip/Phone #)

PICK-UP WAIT MAIL

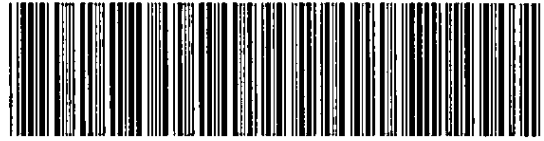
(Business Entity Name)

(Document Number)

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2022 JUN 11 PM 6:33
STATE OF FLORIDA
TALLAHASSEE, FLORIDA

FILED

OCT 5 2022
S. PRATHER

ARTICLES OF AMENDMENT
TO
ARTICLES OF ORGANIZATION
OF

CSWR - Florida Utility Operating Company, LLC
(Name of the Limited Liability Company as it now appears on our records.)
(A Florida Limited Liability Company)

The Articles of Organization for this Limited Liability Company were filed on 3/31/2021 and assigned
Florida document number L21000150005

This amendment is submitted to amend the following:

A. If amending name, enter the new name of the limited liability company here:

The new name must be distinguishable and contain the words "Limited Liability Company," the designation "LLC" or the abbreviation "L.L.C."

Enter new principal offices address, if applicable:
(Principal office address MUST BE A STREET ADDRESS)

1630 Des Peres Rd.
Suite 140
St. Louis, MO 63131

Enter new mailing address, if applicable:
(Mailing address MAY BE A POST OFFICE BOX)

B. If amending the registered agent and/or registered office address on our records, enter the name of the new registered agent and/or the new registered office address here:

Name of New Registered Agent: _____

New Registered Office Address: _____

Enter Florida street address

City Florida Zip Code

New Registered Agent's Signature, if changing Registered Agent:

I hereby accept the appointment as registered agent and agree to act in this capacity. I further agree to comply with the provisions of all statutes relative to the proper and complete performance of my duties, and I am familiar with and accept the obligations of my position as registered agent as provided for in Chapter 605, F.S. Or, if this document is being filed to merely reflect a change in the registered office address, I hereby confirm that the limited liability company has been notified in writing of this change.

If Changing Registered Agent, Signature of New Registered Agent

FILED
2021 JUL 11 PM 6:33
TALLAHASSEE, FLORIDA

If amending Authorized Person(s) authorized to manage, enter the title, name, and address of each person being added or removed from our records:

MGR = Manager
AMBR = Authorized Member

<u>Title</u>	<u>Name</u>	<u>Address</u>	<u>Type of Action</u>
_____	_____	_____	<input type="checkbox"/> Add
		_____	<input type="checkbox"/> Remove
		_____	<input type="checkbox"/> Change
_____	_____	_____	<input type="checkbox"/> Add
		_____	<input type="checkbox"/> Remove
		_____	<input type="checkbox"/> Change
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		_____	<input type="checkbox"/> Change
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		_____	<input type="checkbox"/> Change
_____	_____	_____	<input type="checkbox"/> Add
		_____	<input type="checkbox"/> Remove
		_____	<input type="checkbox"/> Change

EXHIBIT B

AGREEMENT FOR SALE OF UTILITY SYSTEM

THIS AGREEMENT ("*Agreement*"), is made and entered into this 29th day of September, 2022, by and between CENTRAL STATES WATER RESOURCES, INC., a Missouri corporation, or its assigns ("*Buyer*"), and TKCB, INC. a Florida corporation qualified and registered to transact business in the State of Florida ("*Seller*"), collectively ("*Parties*").

WHEREAS, Seller has developed and operates, as a regulated sewer corporation, sewer facilities in the area more particularly described and depicted in the documents attached hereto as **EXHIBIT A**, situated in Brevard County, Florida (hereinafter the "*System*"); and

WHEREAS, Buyer is a corporation, organized and existing under the constitution and the laws of the State of Missouri, with all the requisite power necessary to enter into the transaction described hereinafter; and

WHEREAS, Seller is a corporation, organized and existing under the constitution and the laws of the State of Florida, with all the requisite power necessary to enter into the transaction described hereinafter; and

WHEREAS, Seller desires to sell, and Buyer desires to purchase, all the assets, both real and personal, connected with the System including, but not limited to, all associated improvements for the conveyance of sewer to each of the customers connected to the service area; and

WHEREAS, the parties have reached an understanding with respect to the sale by Seller and the purchase by Buyer of all of the Property (as hereinafter defined) of the System.

NOW, THEREFORE, it is mutually agreed that:

1. **SALE OF PROPERTY**. For and in consideration of the receipt of the Purchase Price, as set forth below, and the covenants and promises hereinafter set forth, including but not limited to the independent consideration of Buyer expending funds to review the feasibility of this purchase, Seller agrees to provide Buyer with the rights set forth in Section 8 herein and elsewhere, and Seller agrees to sell to Buyer, and Buyer agrees to purchase from Seller, all of the following described property (the "*Property*");

A. The land, improvements thereon, easements, rights of way, permits, and leases, and other real property interests used or useful for operation of a sewer system in the System area depicted on **EXHIBIT A** and/or generally described in **EXHIBIT B**, attached hereto, located in Brevard County, Florida;

B. All of Seller's sewer service facilities, including but not limited to: All sewer lines, pipes, lagoon(s), treatment plant(s), pump/lift station(s), tanks, meters, valves, manholes, and any other appurtenances of the sewer system, and all machinery, equipment, supplies and other tangible items used in connection with the sewer system;

C. Any additional tools, devices, vehicles, mobile work equipment, furniture, fixtures, machinery, supplies and other tangible items, if any, located in Brevard County, Florida, and used or held for use in connection with the System as described in **EXHIBIT C**, attached hereto;

D. All of Seller's rights, title and interest in and to those agreements set out and described in **EXHIBIT D**, attached hereto;

E. All of Seller's rights, title and interest in and to any and all warranties, bonds or other financial assurances or guaranties, pertaining to, allocable to or arising out of the provision of sewer service and/or the System;

F. All of Seller's inventory, merchandise, and supplies pertaining to sewer service; and

G. All assets not described which are located in Brevard County, Florida, and used or useful to operate the System, expressly excepting therefrom, and from any other assets described in the paragraphs above of this Section, any and all cash, cash equivalents and banking deposits in existence prior to the Closing, any and all accounts receivable accrued prior to the Closing, and any customer deposits held by Seller.

2. **CONVEYANCES OF REAL ESTATE.** The real estate to be conveyed by Seller will include all facilities described herein and all interest of Seller in any sewer and other utility easements. The real estate will be conveyed by general warranty deed, in a form satisfactory to Buyer, and will vest marketable title in fact in the Buyer. Easements shall be assigned by written assignment or other means, in a form satisfactory to Buyer.

At Buyer's expense, Buyer shall obtain, at least thirty (30) calendar days prior to the Closing, a Commitment to issue an Owner's Policy of Title Insurance to Buyer in the amount of the Purchase Price issued by a company authorized to issue title insurance in the state of Florida, which policy shall insure the owner's title to be marketable as the same is described and defined in Title Examination Standards of The Florida Bar ("*Title Standards*"). After delivery of said title insurance commitment and Buyer's completion of the examination and/or review of the commitment and other relevant title information, Buyer shall notify Seller, in writing, of any objections thereto (the Parties agreeing that any objection falling within the said Title Standards shall not constitute a valid objection so long as Seller furnishes affidavits or other papers as described in such standards in order for the title company to delete the same). If there shall be no such notice of objection, then any exceptions in such Commitment or deficiencies in the title to the property noted on such Commitment shall be deemed waived and delivery of a deed in compliance with the terms of the Commitment shall be deemed compliance with the terms of this Agreement. If notice of any objections to defects in the title, as defined above, shall be delivered to Seller, then Seller shall have five (5) business days to correct the title and the Closing shall be postponed until such time, if necessary. If Seller elects not to, or cannot, correct such defects, then Buyer, at Buyer's option, may waive such defects and proceed to close or may cancel the contract and all obligations hereunder shall be null and void.

3. **REGULATORY APPROVAL.** Seller and Buyer shall act diligently and cooperate with each other to obtain any regulatory approvals required from the Florida Public Service Commission ("*FPSC*"), Florida Department of Environmental Protection ("*FDEP*"), or any other regulatory agency in the state of Florida, as determined by Buyer in its sole discretion, and to obtain transfer of Seller's permits, if any. Buyer and Seller agree to assist the other in this process when requested to do so.

4. **PURCHASE PRICE.** Buyer agrees to pay to Seller at the Closing **Four Hundred Twenty Five Thousand and 00/100 Dollars (\$425,000.00)** for purchase of the Property ("*Purchase Price*").

5. **CLOSING.** The Closing of the sale shall take place at a mutually agreeable location no later than forty-five (45) days after the effective date of any necessary regulatory authority approval, satisfaction of Seller's Representations and Warranties and Conditions Precedent set forth herein, and Buyer having obtained financing under terms acceptable to Buyer in Buyer's sole discretion, or at such other time as the parties hereto may mutually agree (the "*Closing*"). At the Closing, Seller shall have delivered to Buyer such deeds, bills of sale, endorsements, assignments and other sufficient instruments of transfer and conveyance as shall be effective to vest in Buyer such title to the Property to be sold as provided in this Agreement and as set forth in Section 6.D, and Buyer will deliver to Seller the Purchase Price. From time to time, at Buyer's request and expense, whether at or after the Closing and without further consideration, Seller shall execute and deliver such other instruments of conveyance and transfer and take such other action as Buyer reasonably may require to more effectively convey and transfer to Buyer any of the Property to be sold hereunder, and will assist Buyer in the collection or reduction to possession of such Property. Buyer will pay all sales, transfer and documentary taxes, if any, payable in connection with the sale, transfers and deliveries to be made to Buyer hereunder. All ad valorem real estate taxes and assessments levied or assessed against the Property shall be prorated according to the calendar year as of the Closing based on the most recent tax bill and assessments levied for the same, and Buyer shall receive a credit against the Purchase Price for the amount of taxes owed by Seller at the time of the Closing. Buyer shall pay the costs of recording all instruments required for the Closing to occur, the fees charged by the title company, and Buyer's attorneys' fees. Seller shall pay for all attorneys' fees incurred by Seller.

On the date of the Closing, Buyer shall accept and assume ownership and title to the Property to be conveyed hereunder and Buyer shall assume liability, and become responsible, for all obligations in connection with the Property going forward, excepting responsibility for any liabilities and/or obligations of Seller in connection with the Property that existed prior to the date of the Closing.

6. **SELLER'S REPRESENTATIONS AND WARRANTIES.**

The Seller represents and warrants as follows:

A. **Organization and Standing of Seller.** Seller is a corporation, organized and existing under the constitution and laws of the State of Florida in good standing with the Florida Secretary of State and Seller has all the requisite power and authority to sell the Property pursuant to the terms of this Agreement.

B. **Liabilities.** All liabilities or obligations of Seller, whether accrued, absolute, contingent or otherwise pertaining to or arising out from the Property are liabilities and obligations of the Seller and shall remain the obligations of Seller after the date of the Closing.

C. **Absence of Certain Changes.** After Buyer's inspection and acceptance of the Property, there shall not be:

i. Any material change in the use of the Property in connection with the business or operations of the System;

ii. Any damage, destruction or loss whether or not covered by insurance, materially and adversely affecting the Property.

D. **Title to Properties.** Within twenty (20) days prior to the Closing and with Buyer's assistance, Seller shall have obtained the legal right to transfer all of the Property. To the best of Seller's knowledge, unless Seller has disclosed any information in writing to the Buyer to the contrary, Seller owns the Property to be sold under this Agreement, in all cases, free and clear of all liens, mortgages, pledges, leases, options, rights of first refusal, conditional sales agreements, encumbrances or other charges, except liens for taxes not yet due or payable, easements or right of ways, streets, railways, pipelines, electric transmission and distribution lines, telephone lines, drainage rights and other similar rights or restrictions of record which do not, either individually or in the aggregate have a materially adverse effect on the value or utility of the Property to be sold hereunder.

Notwithstanding, but not in limitation of, the foregoing, Seller agrees to work with Buyer's surveyor prior to closing to establish, at Buyer's expense, the property boundaries and easement locations and to create a written plat of the distribution and collection lines showing the location of said lines with respect to lot lines, platted utility easements, if any, to the extent the same can be shown with reference to such lot lines and platted utility easements.

Within twenty (20) days prior to the Closing and with Buyer's assistance, Seller agrees to have identified any and all interests in land (including easements or license agreements) it has obtained in connection with its operation and maintenance of the System and will provide Buyer or Buyer's representatives copies of the same or a reference to the book and page number of the records of the Brevard County Recorder's Office where such easements are recorded. The cost of such identification and any related search being the sole responsibility of the Buyer.

Buyer shall have until twenty (20) calendar days prior to the Closing to determine: 1) if Seller lacks an easement or other interest necessary for operation of the System or 2) an easement is defective in title or interest conveyed. If it appears that Seller lacks a valid easement for any portion of the System, or any easement identified suffers from a defect in title or interest conveyed, Buyer at its option and in its sole discretion may: 1) cancel this Agreement, 2) independently negotiate with the owner of the affected property

toward acquisition of the treatment plant and collection lines easements or other easements, 3) notify Seller that Buyer will cancel the Agreement unless a necessary easement is acquired or a defect satisfactorily cured or remedied, and 4) undertake any action, which in Buyer's sole and absolute discretion, would correct an easement or remedy the situation caused by a lack of an easement or proper land interest. Buyer's failure to cancel this Agreement, however, shall not relieve Seller from any of its duties of indemnification set forth in subsequent paragraphs herein, nor shall such failure be construed as Buyer's waiver of any such provisions.

E. **Authority to Operate.** The Property, as described at Section 1 of this Agreement, constitute all of the assets presently owned by the Seller pertaining to the System. To the best of Seller's knowledge, the System is being conducted, and as of the date of the Closing, will be conducted in full compliance with requirements of all regulatory bodies exercising jurisdiction with regard to rates and conditions of service, and with local building and zoning codes. Seller agrees that from the Effective Date until either the termination of this Agreement or until after the Closing that Seller will not file any notices, requests, compliance documents, pleadings, or any other documents with any governmental or quasi-governmental authority that has jurisdiction over Seller in the operation, regulation or oversight of the System or any other endeavors of Seller (whether related to the System or not) without first providing at least ten (10) days prior notice to the Buyer for review and comment on such filing.

F. **Litigation.** There is no litigation or proceeding pending, or to the knowledge of Seller threatened, against or relating to Seller, the Property, or the System, nor does Seller know, or have reasonable grounds to know, of any basis for any such action, or of any governmental investigation relative to Seller, the Property, or the System, except as otherwise disclosed to Buyer.

G. **No Violation or Breach.** The performance of this Agreement by Seller, including any preconditions or surviving warranties or representations, is not in violation of any laws, statutes, local ordinances, state or federal regulations, court orders or administrative order or ruling, nor is such performance in violation of any loan documents, conditions or restrictions in effect for financing, whether secured or unsecured.

7. **BUYER'S REPRESENTATIONS AND WARRANTIES.**

Buyer represents and warrants as follows:

A. **Organization and Standing of Buyer.** Buyer is a corporation organized, existing under the constitution and laws of the State of Missouri in good standing, and has the requisite power to purchase the Property which are to be sold pursuant to the terms of this Agreement.

B. **Authority.** The execution and delivery of this Agreement by Buyer and the purchase of the Property as contemplated hereby have been duly authorized by Buyer, and all necessary action on the part of Buyer has been taken to authorize the execution and delivery of this Agreement and to consummate the sale contemplated hereby.

8. **CONDITIONS PRECEDENT FOR BUYER TO CLOSE.** All obligations of Buyer under this Agreement are subject to the fulfillment, prior to or at the Closing, of each of the following conditions:

A. **Regulatory Approval.** The FPSC and FDEP shall have, if necessary, authorized or approved the sale, transfer or disposition of the Property to Buyer from Seller, the proposed financing, and any schedule of compliance for proposed utility improvement projects for regulatory compliance deemed necessary by Buyer, each in form and substance (including without limitation with respect to the terms and conditions contained in such approval) acceptable to Buyer in Buyer's sole and absolute discretion. Both Parties shall diligently pursue the required approvals and authorizations contemplated herein. In the event the Parties are unable to obtain the required regulatory approval or authorization to complete the transactions contemplated herein, Buyer may terminate this Agreement by providing written notice to Seller at Buyer's sole and absolute discretion.

B. **Representations and Warranties True at Closing.** Seller's representations and warranties contained in this Agreement shall be true at the time of the Closing as though such representations and warranties were made at such time.

C. **Performance.** Seller shall have performed and complied with all agreements and conditions required by this Agreement to be performed or complied with by Seller prior to or at the closing; including the payment of all taxes and assessments, or portions thereof, attributable to periods prior to or ending on the date of the Closing, to include FPSC assessments.

D. **Feasibility.** Completion of Buyer's examination, testing and inspection of the Property, the securing of any and all licenses, permits or governmental approvals Buyer deems necessary for Buyer's proposed uses of the Property, and any other due diligence determined by the Buyer as necessary in order to determine the feasibility of this acquisition, the results of any of the foregoing to be satisfactory to Buyer, in its sole and absolute discretion. For purposes of this Agreement, the period from the date this Agreement is fully executed by both parties to the date that is twenty (20) days prior to the Closing, shall be referred to herein as the "*Inspection Period.*" During the Inspection Period, Buyer, its employees, agents and contractors, shall have the right to enter onto any property owned by Seller that is related to the operation of the System, as it deems necessary or desirable, on reasonable prior notice to Seller to perform and complete architectural, environmental, engineering and/or other surveys, studies, inspections and tests on the Property; to review zoning laws and applicable building codes; to obtain all necessary city, county, and state zoning approval, site plan or subdivision approvals, licenses and permits to authorize the uses of the Property as intended by Buyer.

E. **No Casualty.** The Property shall not have been adversely affected in any material way as a result of any strike, lockout, accident or other casualty or act of God or the public enemy, or any judicial, administrative or governmental proceeding.

F. **Buyer's Right to Terminate.** If Buyer determines, in its sole and absolute discretion, that any of the aforementioned conditions have not been met, Buyer shall have the right to terminate this Agreement at any time prior to the Closing upon written notice to Seller.

9. **CONDITIONS PRECEDENT FOR SELLER TO CLOSE.** All obligations of Seller under this Agreement are subject to the fulfillment, prior to or at the Closing, of each of the following conditions:

A. **Representations and Warranties True at Closing.** Buyer's representations and warranties contained in this Agreement shall be true at the time of the Closing as though such representations and warranties were made at such time.

B. **Performance.** Buyer shall have performed and complied with all agreements and conditions required by this Agreement to be performed or complied with by Buyer prior to or at the Closing.

10. **INDEMNIFICATION.** Seller shall, and hereby does agree to indemnify and hold harmless Buyer, at any time after the Closing against and in respect of:

A. All liabilities or obligations of Seller, whether accrued, absolute, contingent or otherwise, and including all liabilities or obligations arising out of the transactions entered into, or any state of facts existing, prior to the date of the Closing, including, without limitation, such liabilities or obligations as are described in paragraph B of Section 6 hereof;

B. Any claim, damage or deficiency resulting from any misrepresentation, untrue warranty, breach of warranty, or nonfulfillment of any agreement on the part of Seller under this Agreement or from any misrepresentation in or omission from any certificate or other instrument furnished or to be furnished to Buyer under this Agreement;

C. Any claim, liability, damage or obligation arising out of or attributable to, directly or indirectly,

the storage or disposal of hazardous waste or materials prior to the date of the Closing;

D. All actions, suits, proceedings, demands, assessments, judgments, costs (including attorney's fees) and expenses incident to any of the foregoing.

Seller shall reimburse Buyer, on demand, for any payment involuntarily made, required by law to be made, or with the consent of Seller made by Buyer at any time after the date of closing in respect of any liability, obligation or claim to which the indemnity and hold harmless by Seller contained in this section relates.

11. **FEES AND COMMISSIONS.** Each Party represents that it has not retained any broker or finder and is not paying, and is not obligated to pay, any finder's fee, commission or other transactional fee in connection with the transactions contemplated by this Agreement. Each Party shall pay its own fees for attorneys, accountants, appraisers or others engaged by it in the course of negotiating or executing this Agreement and in closing and completing the transactions hereunder provided. Fees for professional advisors retained jointly by the Parties for their mutual benefit shall be equally divided.

12. **HAZARD INSURANCE & CASUALTY LOSS.** Seller shall maintain current hazard insurance in force on the Property until the Closing. The risk of loss to the Property shall pass to Buyer upon delivery of possession of the Property to Buyer. If an event of casualty occurs to the Property prior to the Closing, the Buyer may elect to either move to the Closing and accept any insurance proceeds as full satisfaction for the damage to the Property or the Buyer may terminate this Agreement. Buyer shall notify Seller as to which option it elects within five (5) days prior to the Closing.

13. **BENEFIT.** All of the terms of this Agreement shall be binding upon, and inure to the benefit of, and be enforceable by, the respective legal representatives of Seller, its successors and assigns, and the successors and assigns of Buyer.

14. **GOVERNING LAW.** This Agreement is being delivered and is intended to be performed in the State of Florida, and shall be construed and enforced in accordance with the laws of such state.

15. **COUNTERPARTS.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument. This Agreement shall not be binding until executed by all Parties.

16. **NO THIRD-PARTY BENEFICIARIES.** This Agreement shall not confer any rights or remedies upon any Person other than the Parties and their respective successors and permitted assigns.

17. **ENTIRE AGREEMENT.** This Agreement (including the documents referred to herein) constitutes the entire agreement among the Parties and supersedes any prior understandings, agreements or representations by or among the Parties, written or oral, to the extent they have related in any way to the subject matter hereof.

18. **SUCCESSION AND ASSIGNMENT.** This Agreement shall be binding upon and inure to the benefit of the Parties named herein and their respective successors and permitted assigns. Buyer shall be permitted to assign its rights in this Agreement to an affiliated entity that the Buyer controls without need of consent by the Seller by providing written notice to the Seller of such assignment. Other than the foregoing permitted assignment, no Party may assign either this Agreement or any of its rights, interests or obligations hereunder without the prior written approval of Buyer and Seller, said approval not to be unreasonably withheld.

19. **HEADINGS.** The section headings contained in this Agreement are inserted for convenience only and shall not affect in any way the meaning or interpretation of this Agreement.

20. **NOTICES.** All notices, demands, consents, requests or other communications required to or permitted to be given pursuant to this Agreement shall be in writing, shall be given only in accordance with the provisions of this Section, shall be addressed to the parties in the manner set forth below, and shall be conclusively deemed to have been properly delivered: (a) upon receipt when hand delivered during normal business hours

(provided that, notices which are hand delivered shall not be effective unless the sending party obtains a signature of a person at such address that the notice has been received); (b) upon receipt when sent by facsimile if sent between the hours of 8:00 a.m. and 5:00 p.m. (the recipient's time) on a business day to the number set forth below with written confirmation of a successful transmission by the sender's facsimile machine; (c) when sent by electronic mail if (1) identified in the subject line as a notice under this Agreement, (2) sent between the hours of 8:00 a.m. and 5:00 p.m. on a business day to the email address set forth below, and (3) acknowledged as received by the recipient, by reply or separate email, (d) upon the day of delivery if the notice has been deposited in an authorized receptacle of the United States Postal Service as first-class, registered or certified mail, postage prepaid, with a return receipt requested (provided that, the sender has in its possession the return receipt to prove actual delivery); or (e) one (1) business day after the notice has been deposited with FedEx, United Parcel Service or other reliable overnight courier to be delivered by overnight delivery (provided that, the sending party receives a confirmation of actual delivery from the courier). The addresses of the parties to receive notices are as follows:

If to Buyer:

Josiah Cox, President
Central States Water Resources, Inc.
1630 Des Peres Road, Suite 140
St. Louis, MO 63131
Facsimile: (314) 238-7201

With a Copy to:

James A. Beckemeier
Beckemeier LeMoine Law
13421 Manchester Rd., Suite 103
Saint Louis, Missouri 63131
Phone: (314) 965-2277
Facsimile: (314) 965-0127
E-mail: jim@bl-stl.com

If to Seller:

Thad Terry, President
TKCB, Inc.
5600 North Cocoa Blvd.
Cocoa, FL 32927
Phone: (321) 639-1124
Facsimile: (321) 639-1134
Email: _____

Any Party may change the address to which notices, requests, demands, claims and other communications hereunder are to be delivered by giving the other Party notice in the manner herein set forth.

21. **AMENDMENTS AND WAIVERS.** No amendment of any provision of this Agreement shall be valid unless the same shall be in writing and signed by Buyer and Seller. No waiver by any party of any default, misrepresentation or breach of warranty or covenant hereunder, whether intentional or not, shall be deemed to extend to any prior or subsequent default, misrepresentation or breach of warranty or covenant hereunder or affect in any way any rights arising by virtue of any prior or subsequent such occurrence.

22. **SEVERABILITY.** Any term or provision of this Agreement that is invalid or unenforceable in any situation in any jurisdiction shall not affect the validity or enforceability of the remaining terms and provisions hereof or the validity or enforceability of the offending term or provision in any other situation or in any other jurisdiction.

23. **EXPENSES.** Buyer and Seller shall each bear its own costs and expenses (including legal and

accounting fees and expenses) incurred in connection with the preparation of this Agreement and activities necessary for the Closing.

24. **CONSTRUCTION.** The Parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises, this Agreement shall be construed as if drafted jointly by the Parties and no presumption or burden of proof shall arise favoring or disfavoring any Party by virtue of the authorship of any of the provisions of this Agreement. Any reference to any federal, state, local or foreign statute or law shall be deemed also to refer to all rules and regulations promulgated thereunder, unless the context requires otherwise. The word "including" shall mean including without limitation.

25. **INCORPORATION OF EXHIBITS.** The Exhibits identified in this Agreement are incorporated herein by reference and made a part hereof.

26. **DEFAULT; ATTORNEY'S FEES.** If either Party shall default in their performance under this Agreement, which default results in the expenditure of attorneys' fees to enforce the terms of this Agreement or to recover damages for breach of this contract, then the prevailing party shall be entitled to receive their reasonable and actually incurred attorneys' fees and costs in addition to any other damages that the Party is entitled to recover at law or in equity.

27. **AUTHORITY TO EXECUTE.** Each person whose signature appears hereon represents, warrants and guarantees that he or she has been duly authorized and has full authority to execute this Agreement on behalf of the party on whose behalf this Agreement is executed.

28. **CONFIDENTIALITY.** Buyer and Seller shall keep confidential this Agreement, this transaction, and all information learned in the course of this transaction, except to the extent disclosure is required by law or court order or to enable third parties to advise or assist Buyer to conduct its due diligence or either party to close this transaction.

IN WITNESS WHEREOF, the Parties have duly executed this Agreement as of the day and year first above written.

SELLER:

TKCB, INC.

By: 
Thad Terry, President

BUYER:

CENTRAL STATES WATER RESOURCES,
INC.

By: 
Josiah Cox (Sep 29, 2022 10:05 CDT)
Josiah Cox, President

EXHIBIT A

Service Area Description

[SERVICE AREA MAP & LEGAL DESCRIPTION TO BE FINALIZED PRIOR TO CLOSING]

EXHIBIT B

Description of Land, Improvements thereon, Easements, Rights of Way, Permits and Leases
(The legal description(s) of the Land, Improvements thereon, Easements, Rights of Way shall be determined by survey and title commitments, which shall be inserted prior to the Closing).

[TO BE FINALIZED PRIOR TO CLOSING]

The following described lots, tracts or parcels of land, lying, being and situate in the County of Brevard State of Florida:

All interests in land used or useful in operation of the Sewer System that services the area set forth on **EXHIBIT A**, including but not limited to easements, rights of way and permits, and including the real property described in Commitment File No. **[FILE NUMBER]**, issued by **[TITLE COMPANY]**, as agent for **[UNDERWRITER]**.

EXHIBIT C

Personal Property and Equipment

(meters, tools, devices, mobile work equipment, furniture, fixtures, machinery, supplies, and other tangible items)

[TO BE FINALIZED PRIOR TO CLOSING]

All Property set forth herein shall be transferred to Buyer free and clear of all liens, pledges, leases, options, rights of first refusal, conditional sales agreements or any other such encumbrances.

All personal property comprising the Sewer System that services the area set forth on **EXHIBIT A**, including but not limited to, the sewer lines, pipes, lagoon(s), treatment plant(s), pump/lift station(s), tanks, meters, valves, and any other appurtenances of the Sewer System, and all machinery, equipment, supplies and other tangible items used in connection with the Sewer System.

Additional Personal Property

EXHIBIT D

Rights Via Agreements, Contracts, Misc.

[TO BE FINALIZED PRIOR TO CLOSING]

TKCB_CSWR Purchase Agreement

Final Audit Report

2022-09-29

Created:	2022-09-29
By:	Kimberly Faulkner (kfaulkner@cswrgroup.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAh_Ozq1A0ZfMT5vvEdaDdA_0TISi6X11h

"TKCB_CSWR Purchase Agreement" History






-  Document created by Kimberly Faulkner (kfaulkner@cswrgroup.com)
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EXHIBIT C

TKCB, INC.
WASTEWATER UTILITY PLANT IS SERVICE
DECEMBER 31, 2021

Acct. No.	Account Name	Previous Year	Additions	Retirement	Current Year
(a)	(b)	(c)	(d)	(e)	(f)
351	Organization	\$ -	\$ -	\$ -	\$ -
352	Franchise	\$ -	\$ -	\$ -	\$ -
353	Land and Land Rights	\$ 36,203	\$ -	\$ -	\$ 36,203
354	Structures and Improvements	\$ 1,324	\$ 4,879	\$ -	\$ 6,203
355	Power Generation Equipment	\$ -	\$ -	\$ -	\$ -
360	Collection Sewers - Force	\$ -	\$ -	\$ -	\$ -
361	Collection Sewers - Gravity	\$ 2,000	\$ -	\$ -	\$ 2,000
362	Special Collecting Structures	\$ -	\$ -	\$ -	\$ -
363	Services to Customers	\$ -	\$ -	\$ -	\$ -
364	Flow Measuring Devices	\$ -	\$ -	\$ -	\$ -
365	Flow Measuring Installations	\$ -	\$ -	\$ -	\$ -
370	Receiving Wells	\$ 5,878	\$ 15,810	\$ -	\$ 21,688
371	Pumping Equipment	\$ -	\$ -	\$ -	\$ -
380	Treatment and Disposal Equipment	\$ 7,230	\$ 9,550	\$ -	\$ 16,780
381	Plant Sewers	\$ -	\$ -	\$ -	\$ -
382	Outfall Sewer Lines	\$ -	\$ -	\$ -	\$ -
389	Other Plant and Misc. Equipment	\$ -	\$ -	\$ -	\$ -
390	Office Furniture and Equipment	\$ -	\$ -	\$ -	\$ -
391	Transportation Equipment	\$ -	\$ -	\$ -	\$ -
392	Stores Equipment	\$ -	\$ -	\$ -	\$ -
393	Tools, Shop and Garage Equipment	\$ -	\$ -	\$ -	\$ -
394	Laboratory Equipment	\$ -	\$ -	\$ -	\$ -
395	Power Operated Equipment	\$ -	\$ -	\$ -	\$ -
396	Communication Equipment	\$ -	\$ -	\$ -	\$ -
397	Miscellaneous Equipment	\$ -	\$ -	\$ -	\$ -
398	Other Tangible Plant	\$ -	\$ -	\$ -	\$ -
	Total Wastewater Plant	\$ 52,636	\$ 30,239	\$ -	\$ 82,875

EXHIBIT D

CSWR, LLC and Subsidiaries

Consolidated Financial Statements

December 31, 2021 and 2020



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Independent Auditor's Report

RSM US LLP

Board of Directors
CSWR, LLC and Subsidiaries

Report on the Audit of the Financial Statements Opinion

We have audited the consolidated financial statements of CSWR, LLC and Subsidiaries (the Company), which comprise the consolidated balance sheets as of December 31, 2021 and 2020, the related consolidated statements of operations, member's equity, and cash flows for the years then ended, and the related notes to the consolidated financial statements (collectively, the financial statements).

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of their operations and their cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Company and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Company's ability to continue as a going concern within one year after the date that the financial statements are issued (or within one year after the date that the financial statements are available to be issued when applicable).

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

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In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Company's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the financial statements as a whole. The accompanying consolidating balance sheet as of December 31, 2021, and the related consolidating statement of operations for the year then ended is presented for purposes of additional analysis and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.

RSM US LLP

St. Louis, Missouri
March 31, 2022

CSWR, LLC and Subsidiaries
As of December 31, 2021 and 2020

Consolidated Balance Sheets

	<u>2021</u>	<u>2020</u>
Current Assets		
Cash		
Accounts Receivable, Net		
Other Current Assets		
Total Current Assets		
Property, Plant and Equipment, Net		
Non-Current Assets		
Preliminary Survey and Investigation		
Other Long-Term Assets		
Total Non-Current Assets		
Goodwill		
Intangible Assets		
Total Assets		
Current Liabilities		
Accounts Payable		
Notes Payable - Current		
Other Current Liabilities		
Total Current Liabilities		
Long-Term Liabilities		
Notes Payable, Net of Current Portion		
Contributions in Aid of Construction		
Other Long-Term Liabilities		
Total Long-Term Liabilities		
Commitments and Contingencies (See Note 10)		
Member's Equity		
Paid-In Capital		
Retained Deficit		
Total Member's Equity		
Total Liabilities and Member's Equity		

See notes to consolidated financial statements

CSWR, LLC and Subsidiaries

For the years ended December 31, 2021 and 2020

Consolidated Statements of Operations

	<u>2021</u>	<u>2020</u>
Operating Revenue		
Operating Revenue		
Operating Expense		
Operations and Maintenance		
General and Administrative		
Depreciation and Amortization		
Total Operating Expense		
Operating Loss		
Other Expense		
Interest		
Total Other Expense		
Net Loss		

See notes to consolidated financial statements

CSWR, LLC and Subsidiaries

For the years ended December 31, 2021 and 2020

Consolidated Statements of Member's Equity

	Paid-In Capital	Retained Deficit	Total Member's Equity
Balance at December 31, 2019			
Capital Contributions			
Net Loss			
Balance at December 31, 2020			
Capital Contributions			
Net Loss			
Balance at December 31, 2021			

See notes to consolidated financial statements

CSWR, LLC and Subsidiaries

For the years ended December 31, 2021 and 2020

Consolidated Statements of Cash Flows

	<u>2021</u>	<u>2020</u>
Cash Flows from Operating Activities		
Net Loss		
Adjustments to reconcile net loss to net cash used in operating activities		
Depreciation and amortization		
Amortization of deferred financing costs to interest expense		
Loss on disposal of preliminary survey and investigation expense		
Loss on disposal of property, plant and equipment		
Interest capitalized to notes payable		
Interest capitalized to deferred financing costs		
Change in assets (increase) decrease		
Accounts receivable, net		
Other current assets		
Other long-term assets		
Change in liabilities - increase (decrease)		
Current liabilities		
Other long-term liabilities		
Net cash used in Operating Activities		
Cash Flows from Investing Activities		
Purchase of property, plant and equipment		
Acquisition of preliminary survey and investigation		
Net cash used in Investing Activities		
Cash Flows from Financing Activities		
Payments on notes payable		
Contributions in aid of construction		
Capital contributions		
Net cash provided by Financing Activities		
Net Increase in Cash		
Cash, Beginning of Period		
Cash, End of Period		

See notes to consolidated financial statements

NOTE 01: NATURE OF OPERATIONS AND BASIS OF PRESENTATION

Principles of Consolidation

The accompanying consolidated financial statements include the accounts of CSWR, LLC ("CSWR") and its wholly owned subsidiaries, Missouri Central States Water Resources, LLC ("Missouri Central States"), Arkansas Central States Water Resources, LLC ("Arkansas Central States"), Kentucky Central States Water Resources, LLC ("Kentucky Central States"), Texas Central States Water Resources, LLC ("Texas Central States"), Louisiana Central States Water Resources, LLC ("Louisiana Central States"), Arizona Central States Water Resources, LLC ("Arizona Central States"), North Carolina Central States Water Resources, LLC ("North Carolina Central States"), Mississippi Central States Water Resources, LLC ("Mississippi Central States") and Tennessee Central States Water Resources, LLC ("Tennessee Central States"), collectively "the Company".

The accounts of Missouri Central States' wholly owned subsidiaries are included. Those subsidiaries are: Hillcrest Utility Holding Company, Inc. ("Hillcrest"), Raccoon Creek Utility Holding Company, Inc. ("Raccoon Creek"), Indian Hills Utility Holding Company, Inc. ("Indian Hills"), Elm Hills Utility Holding Company, Inc. ("Elm Hills"), Confluence Rivers Utility Holding Company, Inc. ("Confluence Rivers") and Osage Utility Holding Company, Inc. ("Osage"), which in turn each own operating subsidiaries that carry out day-to-day operations of the Company.

The accounts of Arkansas Central States' wholly owned subsidiaries are also included. Those subsidiaries are: Hayden's Place Utility Holding Company, LLC ("Hayden's Place"), St. Joseph's Glen Utility Holding Company, LLC ("St. Joseph's Glen"), Sebastian Lake Utility Holding Company, LLC ("Sebastian Lake"), Eagle Ridge Utility Holding Company, LLC ("Eagle Ridge"), Flushing Meadows Utility Operating Company, LLC ("Flushing Meadows") and Oak Hill Utility Holding Company, LLC ("Oak Hill"), which in turn each own operating subsidiaries that carry out day-to-day operations of the Company.

The accounts of Kentucky Central States' wholly owned subsidiary, Bluegrass Water Utility Holding Company, LLC ("Bluegrass") are included. Bluegrass owns an operating subsidiary that carries out the day-to-day operations of the Company.

The accounts of Texas Central States' wholly owned subsidiary, CSWR-Texas Utility Holding Company, LLC ("CSWR-Texas") are included. CSWR-Texas owns an operating subsidiary that carries out the day-to-day operations of the Company.

The accounts of Louisiana Central States' wholly owned subsidiary, Magnolia Water Utility Holding Company, LLC ("Magnolia") are included. Magnolia owns an operating subsidiary that carries out the day-to-day operations of the Company.

The accounts of Arizona Central States' wholly owned subsidiary, Cactus State Water Utility Holding Company, LLC ("Cactus State") are included. Cactus State owns an operating subsidiary that carries out the day-to-day operations of the Company.

The accounts of North Carolina Central States' wholly owned subsidiary, Red Bird Water Utility Holding Company, LLC ("Red Bird") are included. Red Bird owns an operating subsidiary that carries out the day-to-day operations of the Company.

NOTE 01: NATURE OF OPERATIONS AND BASIS OF PRESENTATION (continued)

The accounts of Mississippi Central States' wholly owned subsidiary, Great River Utility Holding Company, LLC ("Great River") are included. Great River owns an operating subsidiary that carries out the day-to-day operations of the Company.

The accounts of Tennessee Central States' wholly owned subsidiary, Limestone Water Utility Holding Company, LLC ("Limestone") are included. Limestone owns an operating subsidiary that carries out the day-to-day operations of the Company.

The Company has additional, inactive subsidiaries which, while included in the Company's financial statements, are immaterial to the consolidated financial results.

All significant inter-company transactions and account balances have been eliminated in consolidation.

Nature of Operations and Acquisition

The Company is a private water and wastewater utility company. The Company's primary purpose, through its subsidiaries, is to establish and maintain compliant water and wastewater treatment facilities for underserved communities and private facility owners by creating economically viable options compliant with the Clean Water Act and the Safe Drinking Water Act. The Company holds certificates of public convenience and necessity granted by the Missouri Public Service Commission, ("Missouri PSC"), under which the Company provides water and wastewater services in Missouri. In the state of Kentucky, the Company holds certificates of public convenience and necessity granted by the Kentucky Public Service Commission, ("Kentucky PSC"), under which the Company provides water and wastewater services in Kentucky. In the state of Texas, the Company holds certificates of public convenience and necessity granted by the Public Utility Commission of Texas, ("Texas PUCT"), under which the Company provides water and wastewater services in Texas. In the state of Louisiana, the Company has been granted authority to operate water and wastewater systems by the Louisiana Public Service Commission, ("Louisiana PSC"). In the state of Arizona, the Company holds certificates of public convenience and necessity granted by the Arizona Corporation Commission, ("Arizona ACC"), under which the Company provides water and wastewater services in Arizona. In the state of North Carolina, the Company holds certificates of public convenience and necessity granted by the North Carolina Public Service Commission, ("North Carolina PSC"), under which the Company provides water services in North Carolina. In the state of Mississippi, the Company holds certificates of public convenience and necessity granted by the Mississippi Public Service Commission, ("Mississippi PSC"), under which the Company provides water and wastewater services in Mississippi. In the state of Tennessee, the Company holds certificates of public convenience and necessity granted by the Tennessee Public Service Commission, ("Tennessee PSC"), under which the Company provides water and wastewater services in Tennessee. The Company also provides water and wastewater services in Arkansas; however, Arkansas Central States' subsidiaries are currently under the water and sewer revenue threshold that requires rate regulation from the Arkansas Public Service Commission, ("Arkansas PSC").

The Company is a wholly owned subsidiary of US Water Systems, LLC. (the "Parent").

NOTE 02: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The Company's policy is to prepare its consolidated financial statements on the accrual basis of accounting in conformity with accounting principles generally accepted in the United States of America (GAAP). The Company also maintains its accounts in accordance with the Uniform System of Accounts of the National Association of Regulatory Utility Commissioners as modified and adopted by the regulatory commissions in the states where it operates. The Company also applies the accounting guidance for regulated operations.

Use of Estimates

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, the actual results could differ from those estimates.

Recognition of Revenue

The Company recognizes revenue in accordance with Accounting Standards Codification ("ASC") 606. Under ASC 606, a performance obligation is a promise within a contract to transfer a distinct good or service, or a series of distinct goods and services, to a customer. Revenue is recognized when performance obligations are satisfied and the customer obtains control of promised goods or services. The amount of revenue recognized reflects the consideration which the Company expects to be entitled to receive in exchange for goods or services. Under the standard, a contract's transaction price is allocated to each distinct performance obligation. For contracts within the scope of ASC 606, the Company recognizes revenue through the following steps: 1) identifies the contract with a customer; 2) identifies the performance obligations within the contract; 3) determines the transaction price; 4) allocates the transaction price to the performance obligations in the contract; and 5) recognizes revenue when, or as, the Company satisfies each performance obligation.

The Company's revenues from contracts with customers are discussed below. Customer payments for contracts are generally due within 30 days of billing and none of the contracts with customers have payment terms that exceed one year; therefore, the Company elects to apply the significant financing component practical expedient, and no amount of consideration has been allocated as a financing component.

The Company's revenue is generated from water and wastewater services delivered to customers. These contracts contain a single performance obligation, the delivery of water and wastewater services, as the promise to transfer the individual service is not separately identifiable from other promises within the contract and is not distinct. Revenue is recognized over time, as water and sewer services are provided, and includes amounts billed to customers on a cycle basis and unbilled amounts based on one month of service. The amounts the Company has a right to invoice are determined by a periodic flat fee, metered usage or both where applicable, indicating that the invoice amount corresponds directly to the value transferred to the customer. The Company elects to use the right to invoice and the disclosure of remaining performance obligations practical expedients for these revenues.

Income Taxes

CSWR, LLC has elected to be treated as a partnership for federal income tax purposes and does not record income taxes. Instead, its taxable earnings and losses are allocated in accordance with the Operating

NOTE 02: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Agreement and are included in the income tax returns of the member. Accordingly, no provision is made for federal and state income taxes in the consolidated financial statements. The Company's subsidiaries have elected to be treated as "C" Corporations. Income taxes are provided for the tax effects of transactions reported in the consolidated financial statements and consist of taxes currently due, plus deferred taxes related primarily to net operating loss timing differences.

The Company and subsidiaries have assessed their federal and state tax positions and determined there were no uncertainties or possible related effects that need to be recorded as of or for the periods ended December 31, 2021 and 2020.

The federal and state income tax returns of the Company for the years ended December 31, 2021 and 2020 are subject to examination by the respective taxing authorities, generally for three years after they were filed.

Fair Value of Financial Instruments

In accordance with ASC 820, the carrying value of cash and cash equivalents, accounts receivable, accounts payable and notes payable approximates fair value. There are no assets and liabilities that are measured and recognized at fair value as of December 31, 2021 and 2020, on a recurring basis.

Accounts Receivable

Accounts receivable includes utility customer accounts receivable, which represent amounts billed to water and wastewater customers on a cycle basis. Accounts receivable also includes unbilled revenue for services provided but not yet billed to customers. Credit is extended based on the guidelines of the applicable state regulatory body and collateral is generally not required.

The Company provides an allowance for doubtful accounts equal to the estimated losses that will be incurred in the collection of accounts receivable. This estimate is based on historical experience coupled with a review of the current status of existing receivables. The allowance and associated accounts receivable are reduced when the receivables are determined to be uncollectible. The allowance at December 31, 2021 and 2020 was [REDACTED] and [REDACTED], respectively.

Property, Plant and Equipment

Property, plant and equipment is generally stated at cost. Major additions and improvements are capitalized and, where rate regulated, placed in service subject to review and revaluation by the applicable state regulatory body, while maintenance and repairs are expensed as incurred. When assets are sold or otherwise disposed of, the related cost and accumulated depreciation are removed from the accounts. Any gain or loss arising from such disposition is included as income or expense in the period of disposition.

Depreciation is computed using the straight-line method over the estimated useful lives of the assets. The estimated lives for computing depreciation on property, plant and equipment are:

Utility Plant in Service - Sewer	10-50 Years
Utility Plant in Service - Water	10-50 Years
Furniture, Fixtures, and Other	7-20 Years

NOTE 02: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Preliminary Survey and Investigation Charges

The Company capitalizes all expenditures for preliminary surveys, plans, investigations and other expenditures made for the purpose of determining the feasibility of the acquisition of system assets. When the acquisition of system assets occurs, these costs are reclassified to the appropriate utility plant account. If the initiative is abandoned, the costs are expensed in the period in which Management makes the determination.

Regulation

The Company's Missouri, Kentucky, Texas, Louisiana, Mississippi, Tennessee, Arizona and North Carolina utilities are subject to economic regulation by the respective PSCs. The Missouri PSC, Kentucky PSC, Texas PUC, Louisiana PSC, Mississippi PSC, Tennessee PSC, Arizona ACC and North Carolina PSC generally authorize revenue at levels intended to recover the estimated costs of providing service, plus a return on net investments, or rate base. The Missouri PSC approved a rate increase April 8, 2020 with an effective date of July 1, 2020 for Confluence Rivers and a rate increase December 30, 2020 with an effective date of January 29, 2021 for Elm Hills. The Kentucky PSC approved a rate increase August 2, 2021 with an effective date of August 1, 2021 for Bluegrass. The Louisiana PSC approved a rate increase November 2, 2021 with an effective date of December 1, 2021 for Magnolia. Regulators may also impose certain penalties or grant certain incentives.

Due to timing and other differences in the collection of utility revenue, an incurred cost that would otherwise be charged to expense by a non-regulated entity is (at the direction of the state PSC) to be deferred as a regulatory asset if it is probable that the cost is recoverable in future rates. Conversely, GAAP requires the recording of a regulatory liability for amounts collected in rates to recover costs expected to be incurred in the future or amounts collected in excess of costs incurred and refundable to customers. The Company had a regulatory asset of [REDACTED] with accumulated amortization of [REDACTED] and [REDACTED] at December 31, 2021 and 2020, respectively. Amortization expense for each of the periods ended December 31, 2021 and 2020 was [REDACTED]. This amount is recorded as Other Current Assets on the Company's consolidated balance sheet as of December 31, 2021 and was recorded as Other Long-Term Assets at December 31, 2020. As part of the Company's acquisitions in Arizona, through its Cactus State subsidiary, the Arizona ACC authorized the recording of deferred debits, a form of regulatory asset, totaling [REDACTED]. These amounts are recorded as Other Long-Term Assets on the consolidated balance sheet. As a provision of the Company's 2021 Louisiana rate case proceeding through its Magnolia subsidiary, the Louisiana PSC approved a regulatory asset be recorded for the net operating losses realized on systems acquired in Louisiana after December 31, 2020. As of December 31, 2021, the amount of this regulatory asset was [REDACTED] and is recorded as Other Long-Term Assets on the consolidated balance sheet. During the period ended December 31, 2021 the company recorded amounts that management believes are likely to be recognized as regulatory assets recoverable in rates during future periods. These amounts are recorded as Other Long-Term Assets on the consolidated balance sheet and totaled [REDACTED] at December 31, 2021.

The Company's net regulatory liability for removal costs recoverable through rates at December 31, 2021 and 2020 was [REDACTED] and [REDACTED] respectively. Salvage expense of the liability for removal costs was [REDACTED] for each of the periods ended December 31, 2021 and 2020. These liabilities are included in Property, Plant and Equipment, Net as a subset of accumulated depreciation.

NOTE 02: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Contributions in Aid of Construction

Regulated utilities may receive advances for construction and/or contributions in aid of construction from customers, home builders, real estate developers, home-owners associations, etc., to fund construction necessary to extend or enhance services or operating facilities to new areas. Advances that are no longer refundable are reclassified as contributions of capital. Contributions are permanent collections of plant assets or cash for a specific capital construction project. For tariff ratemaking purposes, the amount of such contributions generally serves as a rate base reduction since the contributions represent non-investor supplied funds. Generally, the Company depreciates utility plants funded by contributions and amortizes its contributions balance as a reduction to depreciation and amortization expense, producing a result which is functionally equivalent to reducing the original cost of the utility plant for the contributions. Amortization of contributions in aid of construction was ██████████ and ██████████ for the periods ended December 31, 2021 and December 31, 2020, respectively.

Goodwill and Other Intangible Assets

Included in the Company's financials are goodwill and intangible assets which are the result of pushdown accounting from its parent. Goodwill arising from business combinations is generally determined as the excess of the fair value of the consideration transferred, plus the fair value of any noncontrolling interests in the acquiree, over the fair value of the net assets acquired and liabilities assumed as of the acquisition date. Goodwill and intangible assets acquired in a purchase business combination and determined to have an indefinite useful life are not amortized but tested for impairment at least annually or more frequently if events and circumstances exist that indicate that a goodwill impairment test should be performed. The Company has selected December 31 as the date to perform the annual impairment test. The Company has recognized no impairment losses to date. Intangible assets with definite useful lives are amortized over their estimated useful lives to their estimated residual values. Goodwill, the Trade Name and Certificate of Convenience and Necessity have an indefinite life on the consolidated balance sheets. There are no intangible assets with a definite life on the consolidated balance sheets.

Impairment of Long-Lived Assets

Long-lived assets of the Company, which consist primarily of property, plant and equipment, intangible assets and regulatory assets are reviewed for impairment when changes in circumstances or events occur. These circumstances or events could include a decline in the market value or physical condition of a long-lived asset, an adverse change in the way long-lived assets are used, changes in macroeconomic conditions, industry and market conditions, or overall financial performance. In the case of regulatory assets, this could include regulatory disallowances or abandonments. When these circumstances or events occur, the Company determines whether it is more likely than not that the fair value of those assets is less than their carrying amount. If the Company determines this to be likely, an impairment charge would be recognized. During the periods ended December 31, 2021 and 2020, no impairment charges were recognized.

New Accounting Pronouncements

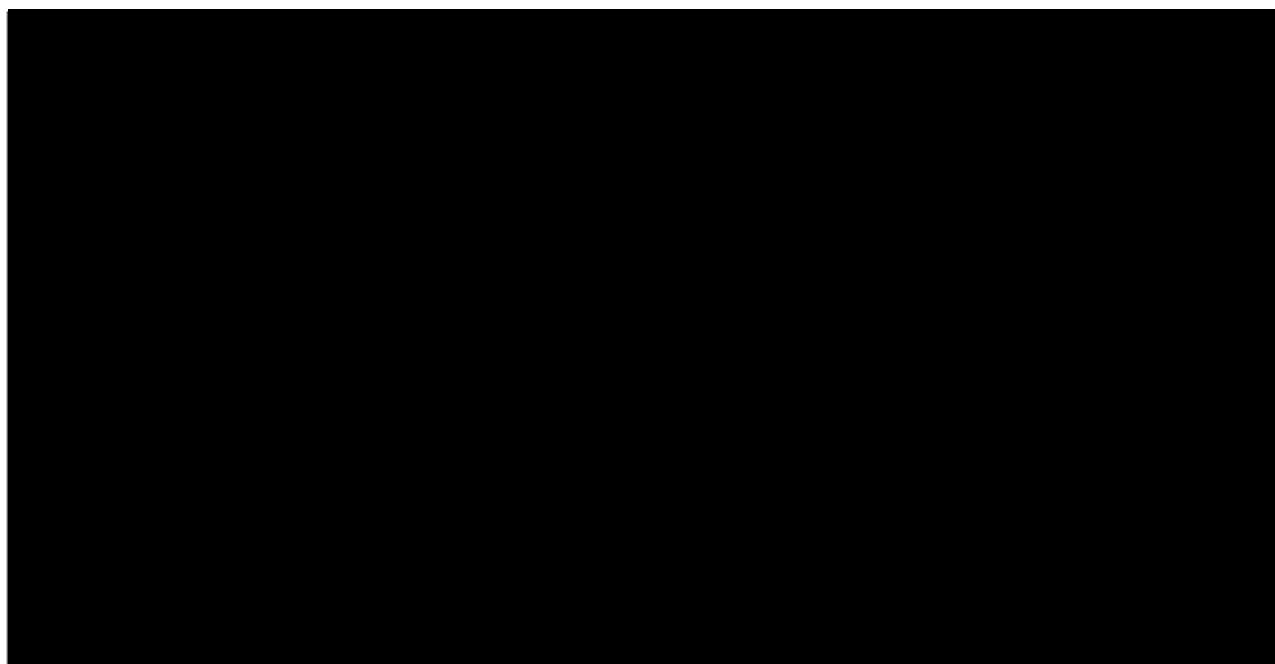
In February 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2016-02, Leases, which amends the existing guidance on accounting for leases, and is effective for fiscal years beginning after December 15, 2021 for entities other than public business entities. This ASU requires the recognition of lease assets and liabilities on the consolidated balance sheet and the disclosure of key information about leasing arrangements. Early adoption is permitted and modified

NOTE 02: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

retrospective application is required for leases that exist or are entered into after the beginning of the earliest comparative period in the consolidated financial statements. The Company is currently evaluating the impact, if any, of adopting ASU 2016-02 on the Company's consolidated financial statements and related disclosures.

In June 2016, the FASB issued ASU 2016-13, Financial Instruments-Credit Losses. The standard requires financial assets (including accounts receivable) measured at amortized cost basis to be presented at the net amount expected to be collected. Thus, the consolidated statement of operations will reflect the measurement of credit losses for newly recognized financial assets as well as the expected increases or decreases of expected credit losses that have taken place during the period. This standard is effective for fiscal years beginning after December 15, 2022. The Company is currently in the process of evaluating the impact, if any, of adoption of this ASU on the consolidated financial statements.

NOTE 03: ASSET PURCHASES



NOTE 04: CONSOLIDATED STATEMENTS OF CASH FLOWS

Cash paid for interest during the periods ending December 31, 2021 and December 31, 2020 was [REDACTED] and [REDACTED], respectively. The Company did not have any cash paid for income taxes during the periods ended December 31, 2021 and 2020.

As of December 31, 2021, [REDACTED] in property, plant and equipment and [REDACTED] in preliminary survey and investigation charges were funded by accounts payable and other current liabilities. Preliminary survey and investigation charges totaling [REDACTED] were reclassified to property, plant, and

NOTE 04: CONSOLIDATED STATEMENTS OF CASH FLOWS (continued)

equipment during the period ending December 31, 2021. The asset purchases during the period ending December 31, 2021 included [REDACTED] of assets which had previously been funded by contributions in aid of construction.

As of December 31, 2020, [REDACTED] in property, plant and equipment and [REDACTED] in preliminary survey and investigation charges were funded by accounts payable and current liabilities. Preliminary survey and investigation charges totaling [REDACTED] were reclassified to property, plant, and equipment during the period ending December 31, 2020.

NOTE 05: CASH CONCENTRATION

As of December 31, 2021 and 2020, the Company's cash balance per depositor exceeded federally insured limits.

NOTE 06: PROPERTY, PLANT AND EQUIPMENT

Depreciation has been computed over the estimated useful life of each asset using the straight-line method. Interest costs have been capitalized based on the average outstanding capital expenditures. In addition, certain technical and engineering related studies associated with the project have also been capitalized and included in the basis of the assets.

Major classes of property, plant and equipment consist of the following:

	<u>2021</u>	<u>2020</u>
Utility Plant in Service - Sewer	[REDACTED]	[REDACTED]
Utility Plant in Service - Water	[REDACTED]	[REDACTED]
Furniture, Fixtures and Other	[REDACTED]	[REDACTED]
Less: Accumulated Depreciation	[REDACTED]	[REDACTED]
In Service Property, Plant and Equipment - Net	[REDACTED]	[REDACTED]
Construction Work in Progress	[REDACTED]	[REDACTED]
Property, Plant & Equipment Net	[REDACTED]	[REDACTED]

Depreciation and amortization expense for the periods ended December 31, 2021 and 2020 totaled [REDACTED] and [REDACTED] which consisted of [REDACTED] and [REDACTED] in depreciation on property, plant and equipment, net amortization expense of the regulatory assets and liabilities [REDACTED] and [REDACTED] respectively, as disclosed in Note 2, and [REDACTED] and [REDACTED] in reduction of expense for amortization of contributions in aid of construction as disclosed in Note 2, respectively.

NOTE 07: NOTES PAYABLE – RELATED PARTY

The Company, through its subsidiaries, entered into agreements with [REDACTED], a related party through common ownership, at various times between 2016 and 2018, for a maximum principal amount of [REDACTED]. Associated with the agreements were construction notes payable to provide financing for the construction, improvements, and equipment for the Company’s subsidiaries. During the construction period, all interest accrued on the loan was rolled into the principal balance of the loan. Interest is accrued at fixed rates of 13% or 14%. For some of these construction notes payable, the Company was not obligated to make any payments of interest or principal on the accrued interest or the principal amount owed until the first calendar month immediately following the construction completion date, at which point principal and interest payments are due monthly at various maturities between October 2036 and December 2041. As of December 31, 2021 and 2020, the outstanding loan balance, including accrued interest and origination fee, was [REDACTED] and [REDACTED] and unamortized deferred financing costs were [REDACTED] and [REDACTED] respectively. The outstanding loan balance, including capitalized interest and origination fee, less unamortized financing costs is as follows as of December 31:

	2021	2020
Notes Payable balance, including accrued interest and origination fee	[REDACTED]	[REDACTED]
Unamortized deferred financing costs	[REDACTED]	[REDACTED]
Current portion of notes payable	[REDACTED]	[REDACTED]
Notes Payable, net of current portion	[REDACTED]	[REDACTED]

Future maturities of notes payable are as follows:

Periods ending December 31,

2022	[REDACTED]
2023	[REDACTED]
2024	[REDACTED]
2025	[REDACTED]
2026	[REDACTED]
Thereafter	[REDACTED]

The agreements are secured by specific portions of the Company’s subsidiaries’ assets and require adherence to specific restrictive covenants. For the periods ending December 31, 2021 and 2020 the Company had not satisfied certain covenant obligations. Through the date of issuance of the independent auditors report the debt has not been called and as of December 31, 2021, the lender provided written covenant waivers evidencing that no event of default has occurred which would cause the lender to exercise before April 1, 2023, its options to pursue the remedies outlined in the loan agreements.

NOTE 07: NOTES PAYABLE -RELATED PARTY (continued)

Deferred Financing Costs

Costs incurred in connection with financing activities are deferred and amortized to interest expense using the straight-line method over the terms of the related debt agreement. The straight-line method approximates the deferred interest method. Unamortized deferred financing costs of [REDACTED] and [REDACTED] are included in the accompanying consolidated balance sheets as a reduction of debt at December 31, 2021 and 2020, respectively. Amortization expense included in interest expense was [REDACTED] for the periods ended December 31, 2021 and 2020.

NOTE 08: OPERATING LEASE

The Company has a lease agreement for office space. During 2020, the prior lease agreement expired and the Company entered a new agreement. Under the expiring lease agreement, the Company paid monthly rent payments of [REDACTED] per month through March 2020. The Company's current lease has a term of five years and requires monthly rent payments of [REDACTED] beginning April, 2020.

Total future minimum commitments related to the lease is as follows:

2022 -	[REDACTED]
2023 -	[REDACTED]
2024 -	[REDACTED]
2025 -	[REDACTED]
Total -	[REDACTED]

The current lease agreement included a leasehold incentive as reimbursement for costs related to improving the leasehold and preparing the space for the Company's use. This incentive totaled [REDACTED] and was a receivable, included in Other Current Assets on the consolidated balance sheet, to the Company at December 31, 2020 and was received in 2021. The incentive also results in a liability which is to be amortized over the life of the lease as a reduction of rent expense. The Leasehold Incentive Liability is recorded as Other Long-Term Liabilities on the Company's consolidated balance sheet, net of accumulated amortization of [REDACTED] and [REDACTED] for the periods ended December 31, 2021 and 2020, respectively. Rent expense amounted to [REDACTED] and [REDACTED] for the periods ended December 31, 2021 and December 31, 2020, respectively. Amortization expense of the Leasehold Incentive Liability amounted to [REDACTED] and [REDACTED] for the periods ended December 31, 2021 and 2020, respectively.

NOTE 09: EMPLOYEE BENEFIT PLAN

The Company has a retirement plan for its employees which allows participants to make contributions by salary reduction pursuant to Section 401(k) of the Internal Revenue Code. The Company can make a discretionary profit-sharing contribution to employees any time during the year. Employees vest immediately in their contributions and the Company's profit-sharing contributions. The Company's contributions to the 401(k) plan totaled [REDACTED] and [REDACTED] for the periods ended December 31, 2021 and 2020, respectively.

NOTE 10: COMMITMENTS AND CONTINGENCIES

The Company is involved in various claims and legal actions arising in the ordinary course of business. In the opinion of the Company's management, the probable resolution of such contingencies will not have a material adverse effect on the financial position, cash flows or results of operations of the Company.

NOTE 11: INCOME TAXES AND LOSS CARRYFORWARD

Deferred income tax provisions/benefits for the Company's C-Corp subsidiaries are calculated for certain transactions and events because of differing treatments under GAAP and the currently enacted tax laws of the federal, state, and local governments. The Company accounts for federal income taxes in accordance with FASB ASC 740, whereby deferred taxes are provided on temporary differences arising from assets and liabilities whose bases are different for financial reporting and income tax purposes. Current deferred federal income taxes relate primarily to timing differences including a net operating loss carryforward and certain expenses that are not deductible for tax purposes. Deferred income tax assets and liabilities are computed for those temporary differences that have future tax consequences using the currently enacted tax laws and rates that apply to the periods in which they are expected to affect taxable income.

The net deferred tax asset consists of the following components as of December 31:

	<u>2021</u>	<u>2020</u>
Estimated tax benefit for accumulated net operating losses		
Allowance for doubtful accounts		
Deferred tax asset/(liability)		
Less valuation allowance		
Deferred tax asset/(liability) - net		

The deferred tax assets as of December 31, 2021 and 2020 are a result of net operating losses for federal and state taxes that are available for carryforward to future periods and certain timing differences. There is a degree of uncertainty inherent in determining if it is more likely than not that the benefits from certain net operating loss carryforwards and other deferred tax assets may not be realized. Management has assessed this risk and has provided a valuation allowance of [REDACTED] and [REDACTED] on these deferred tax assets as of December 31, 2021 and 2020, respectively until the Company's subsidiaries starts to generate taxable income.

CSWR, LLC and Subsidiaries
Notes to the Consolidated Financial Statements

NOTE 12: SUBSEQUENT EVENTS

Subsequent to year end, the Company paid approximately [REDACTED] to acquire certain operating assets, primarily property, plant and equipment, that provide water supply and distribution services, and sewer collection and treatment services in Missouri, Texas, Arizona and Louisiana. The assets acquired are expected to approximate the amount paid.

Additionally, subsequent to year end, the Company amended the lease for its corporate offices in St Louis, Missouri. The amendment expanded the leased space and included a lease term ending March 31, 2025. The average monthly lease amount increased to approximately [REDACTED] with annual increases over the lease term. The lease term will commence after improvements to the leased space are completed by the landlord.

Total future minimum commitments related to the amended lease is as follows:

2022 -	[REDACTED]
2023 -	[REDACTED]
2024 -	[REDACTED]
2025 -	[REDACTED]
Total -	[REDACTED]

Management has evaluated subsequent events through the date of the independent auditors' report, March 31, 2022, the date these consolidated financial statements were available to be issued.

CONSOLIDATING BALANCE SHEETS

	Consolidated	Consolidation Elimination	CSWR, LLC	Missouri-CSWR	Hillcrest	Raccoon Creek	Indian Hills	Confluence Rivers	Elm Hills	Osage	Louisiana-CSWR	Magnolia	Kentucky-CSWR	Bluegrass	Texas-CSWR	CSWR-Texas
Current Assets																
Cash																
Accounts Receivable																
Other Current Assets																
Total Current Assets																
Property, Plant & Equipment, Net																
Misc Long-Term Assets																
Preliminary Survey & Investigation																
Investment in Associated Companies																
Unamortized Debt Expense																
Receivable from Associated Company																
Other Long-Term Assets																
Total Misc Long-Term Assets																
Goodwill																
Intangible Assets																
Deferred Income Tax Asset																
Total Assets																
Current Liabilities																
Accounts Payable																
Notes Payable-Current Portion																
Other Current Liabilities																
Total Current Liabilities																
Long-Term Liabilities																
Notes Payable																
Payable to Associated Companies																
Contributions in Aid of Construction																
Other Long-Term Liabilities																
Total Long-Term Liabilities																
Deferred Income Tax Liability																
Capitalization																
Paid-In Capital																
Retained Deficit																
Total Capitalization																
Total Liabilities and Capitalization																

CONSOLIDATING BALANCE SHEETS

	Tennessee- CSWR	Limestone	Mississippi- CSWR	Great River	Arizona-CSWR	Cactus State	North Carolina- CSWR	RedBird	Arkansas- CSWR	Hayden's Place	St. Joseph's Glen	Sebastian Lake	Eagle Ridge	Oak Hill	Flushing Meadows	Inactive Entities																																																																																																																																																																																																																																
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CONSOLIDATING STATEMENT OF OPERATIONS

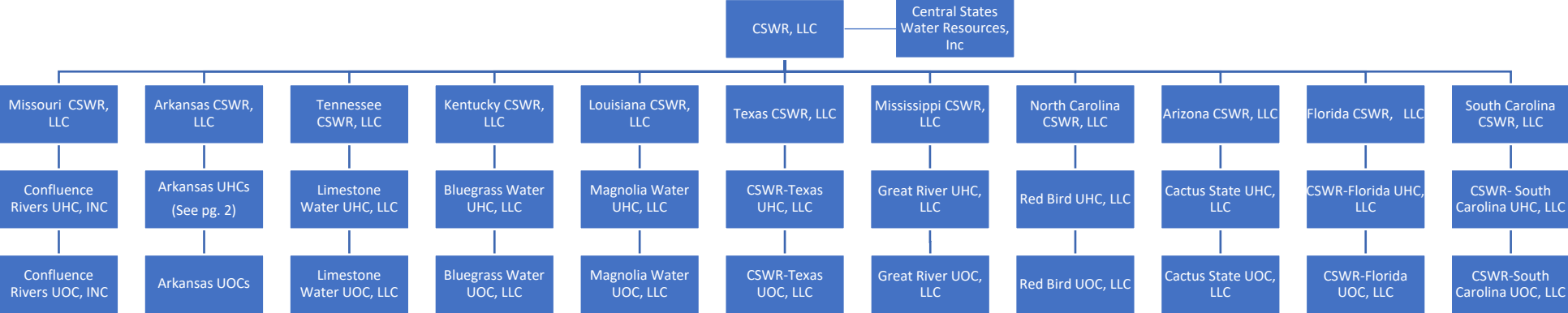
	Consolidated	CSWR, LLC	Missouri- CSWR	Hillcrest	Raccoon Creek	Indian Hills	Confluence Rivers	Elm Hills	Osage	Louisiana- CSWR	Magnolia	Kentucky- CSWR	Bluegrass	Texas-CSWR	CSWR-Texas
Operating Revenue															
Operating Revenue															
Operating Expense															
Operations and Maintenance															
General and Administrative															
Depreciation and Amortization															
Total Operating Expense															
Operating Loss															
Other Income (Expense)															
Interest															
Total Other Income (Expense)															
Net Loss before Taxes															
Net Income (Loss)															

CONSOLIDATING STATEMENT OF OPERATIONS

	Tennessee- CSWR	Limestone	Mississippi- CSWR	Great River	Arizona- CSWR	Cactus State	North Carolina- CSWR	RedBird	Arkansas- CSWR	Hayden's Place	St. Joseph's Glen	Sebastian Lake	Eagle Ridge	Oak Hill	Flushing Meadows	Inactive Entities
Operating Revenue																
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Operations and Maintenance																
General and Administrative																
Depreciation and Amortization																
Total Operating Expense																
Operating Loss																
Other Income (Expense)																
Interest																
Total Other Income (Expense)																
Net Loss before Taxes																
Net Income (Loss)																

EXHIBIT E

Central States Water Resources Corporate Entity Organizational Chart



Arkansas CSWR Organizational Chart Detail

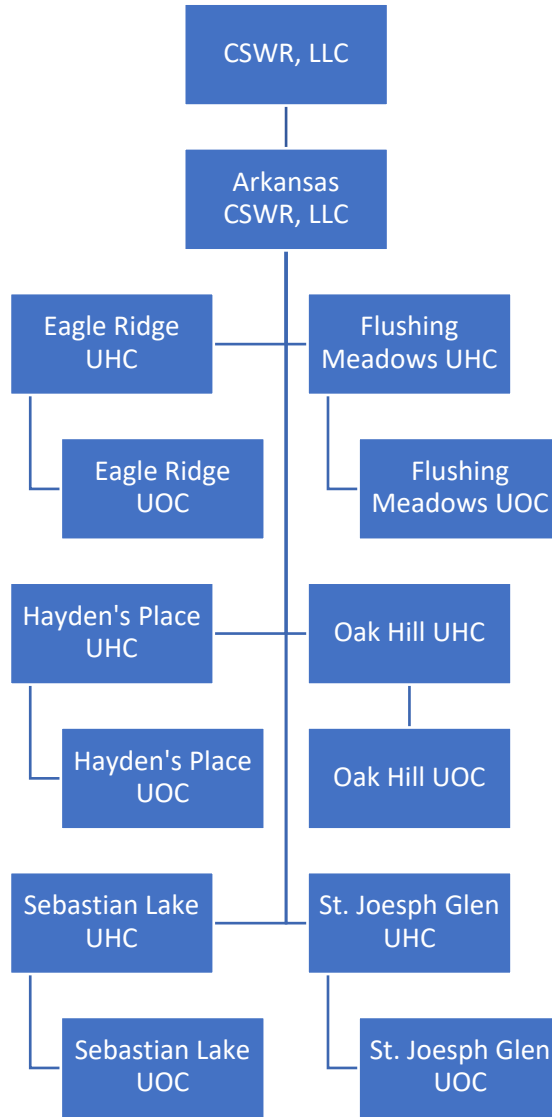


EXHIBIT F

Josiah Cox – President

Mr. Cox is President of Red Bird Utility Operating Company, LLC, Red Bird Utility Holding Company, LLC, and also of, Central States Water Resources, LLC, (“CSWR”). Both companies are part of an affiliated group that provides water and/or wastewater utility services to more than 300 customers in 11 states.

Mr. Cox received a Bachelor of Science degree with a major in Environmental Science from the University of Kansas where he was also a student-athlete. Professionally he has worked at the Kansas state biological survey, where he performed a wildlife habitat study. He then worked at a civil engineering firm where he was involved in various facets of the land development process including permitting, entitlement, civil design, project management, and construction management. He focused mainly on the water and wastewater side of the civil engineering business and participated in every aspect of that business from waste-load allocation studies (now known as the anti-degradation processes), to design, permitting, project management, and construction management. He also ran the firm's environmental consulting division and was the second private consultant to submit a Water Quality Impact Assessment in the state of Missouri in 2003. He later joined the engineering firm's executive leadership team and helped run all the firm's operations.

Beginning in 2005, he formed a full-service civil engineering, environmental consulting, general contracting, and construction management firm. He gained extensive experience with rural communities in every facet of the water and wastewater compliance process, including environmental assessment, permitting, design, construction, operation and community administration of the actual water and wastewater (sewerage) systems. The firm performed stream sampling and built waste- load allocation models to determine receiving water-body protective permit-able effluent pollutant loads. They did full engineering design of multiple whole community water and wastewater infrastructure systems including wells, water distribution, water treatment, water storage, wastewater conveyance, and wastewater treatment plants and delivered these designs through federal and state administered permitting processes in Missouri. The engineering firm also administered the construction of these water and wastewater systems from green field site selection all the way through system startup and final engineering sign-off. During this time, Mr. Cox also began the Master of Business Administration (MBA) program at Washington University in St. Louis, from which he earned his advanced degree and graduated in 2007.

Additionally beginning in 2008, Mr. Cox took over the operations of an existing rural sewer district and to date he still operates a system, managing the functioning, testing, and maintenance of this system. He also acts as the administrator for this municipal system, performing all the billing, emergency response, accounts payable/accounts receivable, collections, budgeting, customer service, and public town meetings required to service the community.

In late 2010, after working on several small, distressed water and wastewater systems, Mr. Cox created a business plan to acquire and recapitalize failing systems as investor-owned, regulated water and wastewater utility companies. In early 2011, he went to the capital markets to raise money to implement his plan, and over a period of approximately three years met with more than fifty- two infrastructure investment groups in an attempt to raise necessary financing. In

February 2014, he was able to raise sufficient debt and equity capital to start CSWR. In 2018, he attracted an additional large institutional private equity investor, which allowed CSWR to expand the scope of its business plan. Since its formation, CSWR has acquired, and is currently operating more than 800 water and/or wastewater systems in Arizona, Arkansas, Florida, Kentucky, Louisiana, Missouri, Mississippi, North Carolina, South Carolina, Tennessee, and Texas.

Marty Moore – Chief Financial Officer

Marty Moore is the Chief Financial Officer of CSWR, LLC, and has held this position since April 2020. As CFO, Mr. Moore provides leadership, direction, and oversight of the finance and accounting teams, managing the process for financial forecasting, budgeting, and reporting in addition to overseeing the human resources and risk management functions.

After receiving a Bachelor of Business Administration in Accounting from Abilene Christian University, Mr. Moore gained a wide range of financial management experience. Moore's extensive senior-level finance and operational expertise includes serving as CFO of international automation equipment manufacturer Baldwin Technology Co., a company he helped Barry- Wehmiller/Forsyth Capital take private in 2012. Prior to that, Mr. Moore held senior leadership positions with Summit Marketing, Consolidated Terminals, Barnhill's Buffet Inc., and Global Materials Services. He began his career at Arthur Andersen. Moore most recently led finance and corporate services as CFO of Gardner Capital, a national affordable housing and renewable energy developer, investor, and tax credit syndicator. He has an extensive background in mergers and acquisitions and works alongside Mr. Cox in accelerating the company's already rapid growth trajectory.

Todd Thomas – Vice President

Todd Thomas holds the office of Senior Vice President of CSWR. Mr. Thomas received his Bachelor of Science in Civil Engineering from The Missouri University of Science and Technology, and a Master of Business Administration from Washington University in St. Louis.

Before joining CSWR, Mr. Thomas was President of Brotcke Well and Pump, Vice President of Operations and Business Development of the Midwest for American Water Contract Operations, and General Manager of Midwest Operations for Environmental Management Corporation. Mr. Thomas currently serves on the Technical Advisory Team for the Public Water Supply District 2 of St. Charles County, MO. Mr. Thomas's past positions in related industries has provided him with extensive experience in water and sewer utilities. He has in depth, firsthand knowledge about the amount of damage resulting from the lack of maintenance on a well system, and he understands how much money and effort are required to restore a well system after neglect.

In his position as Senior Vice President at CSWR, Mr. Thomas's primary responsibilities include utility operations along with the acquisition, development, and rate stabilization of CSWR- affiliated utilities. Those duties include operations, maintenance, capital planning, and regulatory compliance for all affiliate-owned facilities. He is responsible for the management of all operations and maintenance service providers, and engineering firms.

Mike Duncan –Vice President

Mike Duncan is the Vice President of CSWR and was promoted to that position in October 2020. As Vice President, he has played an integral role in researching, preparing, filing, and processing acquisition applications in Missouri, Kentucky, Tennessee, Louisiana, Texas, North Carolina, and Mississippi. He also has taken a leading role in preparing and filing rate cases in Missouri, Kentucky, and Louisiana.

After receiving his Bachelor of Arts degree from Washington University in St. Louis, the first eleven years of his career were spent as an administrator and later director at a non-profit organization in St. Louis, Missouri. As Executive Director, Mr. Duncan oversaw accounting, finance, human resources, IT, and communications for the organization. During his employment he earned his Master of Business Administration from the Olin School of Business at Washington University. Prior to joining CSWR, he spent two years as Director of Operations with NAPA Auto Tire & Parts, a partner-owned chain of auto parts stores, overseeing projects related to distribution, logistics, IT, and general management.

Jake Freeman – Director of Engineering

Jake Freeman is the Director of Engineering of CSWR and has held this position since January 2019. As Director of Engineering, he oversees the engineering, surveying, and facility construction upgrades for all newly acquired CSWR water and wastewater utilities including those in Arizona, Arkansas, Florida, Kentucky, Louisiana, Missouri, Mississippi, North Carolina, South Carolina, Tennessee, and Texas. He also oversees ongoing capital upgrade projects on all CSWR affiliated and operated facilities.

After receiving a Bachelor of Science degree in Mechanical Engineering from the University of Missouri – Columbia, Mr. Freeman spent the first two years of his career working for Corrigan Mechanical, a design-build mechanical contractor in St. Louis, where he designed, estimated, and managed plumbing, HVAC and process piping construction projects in Missouri and southern Illinois. He then spent eleven years performing similar tasks for Brotcke Well & Pump, a well and pump service contractor servicing water wells and water treatment equipment throughout Missouri, Illinois, Kentucky, and Kansas. Prior to his employment with CSWR, he held the position of Vice President of Brotcke Well & Pump and Principal for their engineering services and managed their newly opened office in Kansas City.

Jo Anna McMahon - Vice President of Government Affairs

Jo Anna McMahon is the Vice President of Government Affairs for CSWR. Ms. McMahon holds several top water and wastewater certifications throughout the country. She received her Bachelor of Business Administration degree from the University of Arkansas at Little Rock, and will be graduating in May 2023 with a Master of Business Administration degree from Washington University in St. Louis, Missouri.

Before joining CSWR, Ms. McMahon worked for both public and private utilities, respectively serving both municipality and military installations. Ms. McMahon has extensive experience as both an Operations Coordinator and as a Specification Specialist.

In her previous position as Director for Environmental Health and Safety at CSWR, her responsibilities included managing daily operations of wastewater and water treatment facilities of various sizes ranging from 3,600 gallons per day (gpd) to 64,000,000 gpd. Throughout that time, Ms. McMahon led teams of operators in creating and executing infrastructure improvement plans, managing and developing employees, and providing a standard of excellence in customer service while keeping facilities and operations within regulatory compliance throughout Louisiana, Kansas, and Arkansas.

Ms. McMahon's previous employment equipped her with invaluable experience in water and sewer utilities. She has a wide range of firsthand experience in managing water and wastewater treatment facilities safely and in a financially and operationally sound manner.

Chelsie Carter - Director of Customer Experience

Chelsie Carter is the Director of Customer Experience at CSWR. Ms. Carter joined CSWR in 2021 as Customer Experience Manager and was promoted to Director level within seven months, leading an overhaul of the CSWR's customer service functions during a period of dramatic growth.

Ms. Carter first earned a Bachelor of Science degree followed by her Master of Business Administration from Lindenwood University. She has a strong background in training and management as well as extensive experience with utility providers. Prior to joining CSWR, she led the Accounts Receivable division at the St. Louis Metropolitan Sewer District, where she also served as the point of contact for dozens of major accounts. Areas of oversight included billing \$34M per month in customer invoices, customer service for 430,000 customers, processing an average of \$1M in payment remittance per day and collecting more than \$92M in delinquent accounts. Ms. Carter also spent 16 years with American Water, starting as the supervisor for the Customer Call Center and working her way up to Business Services Specialist. In this role she was the point of contact for the Public Service Commission on customer-related issues and resolutions. She has provided direction and support for several rate cases, acquisitions, and software implementations.

Since joining CSWR, Ms. Carter continues to oversee the entire customer life cycle, focusing on improving the customer experience in the areas of self-service, software systems and processes.

EXHIBIT G

DESCRIPTION OF TERRITORY SERVED

The following territory in Brevard County, Florida

Township 24 South, Range 35 East

Section 1

A PARCEL OF LAND LYING IN THE EAST ½ OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BEING A PORTION OF CANAVERAL GROVES SUBDIVISION, PHASES 1 AND 2, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH ¼ CORNER OF SAID SECTION 1 AND RUN S 01° 01' 56" W ALONG THE WEST LINE OF THE NORTHEAST ¼, A DISTANCE OF 50 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF CANAVERAL GROVES BOULEVARD, THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 01° 01' 56" WEST ALONG SAID WEST LINE, A DISTANCE OF 1362.29 FEET; THENCE SOUTH 88° 45' 34" EAST, A DISTANCE OF 320 FEET MORE OR LESS; THENCE SOUTH 1650 FEET MORE OR LESS TO A POINT 150 FEET SOUTH OF EMERALD LAKES DRIVE; THENCE EAST 1000 FEET MORE OR LESS TO THE WEST RIGHT-OF-WAY LINE OF SHARPES LAKE AVENUE; THENCE NORTHWESTERLY ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 1700 FEET MORE OR LESS TO A POINT; THENCE NORTH A DISTANCE OF 450 FEET MORE OR LESS TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF LAKE ERIE PLACE; THENCE SOUTH 88° 45' 34" EAST A DISTANCE OF 560 FEET MORE OR LESS TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF LAKE SUPERIOR DRIVE; THENCE NORTH 01° 14' 26" EAST A DISTANCE OF 50 FEET; THENCE SOUTH 88° 45' 34" EAST A DISTANCE OF 70.25 FEET; THENCE NORTH 01° 14' 48" EAST A DISTANCE OF 108.18 FEET; THENCE SOUTH 88° 29' 58" EAST A DISTANCE OF 25 FEET; THENCE NORTH 01° 14' 48" EAST A DISTANCE OF 1225.69 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CANAVERAL GROVES BOULEVARD; THENCE NORTH 88° 28' 48" WEST A DISTANCE OF 1338.84 FEET TO THE POINT OF BEGINNING.

EXHIBIT H

EXHIBIT H

**Engineering analysis of the system –
to be filed as a supplement if/when it becomes available**

EXHIBIT I

THIS INSTRUMENT PREPARED BY:

Charles L. Cooper
Bryant Miller Olive P.A.
1545 Raymond Diehl Rd., Ste. 300
Tallahassee, FL 32308

Property Appraiser's ID #:

Consideration: \$ _____

Doc Stamps: \$ _____

_____ [Space Above This Line For Recording Data] _____

WARRANTY DEED

This Warranty Deed is made this ____ day of _____, 2023, by TKCB, Inc., a Florida corporation ("Grantor") whose post office address is 5600 North Cocoa Blvd., Cocoa, FL 32927, to CSWR-FLORIDA UTILITY OPERATING COMPANY, LLC, a Florida limited liability company ("Grantee") whose post office address is 1630 Des Peres Rd., Suite 140, St. Louis, MO 63131.

"Grantor" and "Grantee" are used for singular or plural, as context requires.

WITNESSETH, that Grantor, for the sum of \$10 and other good and valuable consideration, the receipt of which is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto Grantee the following described property:

See Exhibit "A" attached hereto and by reference made a part hereof.

This conveyance is subject to easements, restrictions, reservations, and limitations of record, if any, **and together with** all the easements, tenements, hereditaments and appurtenances thereto belonging or in anywise benefitting or appertaining, to have and to hold the same in fee simple forever.

And, Grantor hereby covenants with Grantee that Grantor is lawfully seized of said land in fee simple; that Grantor has good right and lawful authority to sell and convey said land; that Grantor hereby fully warrants the title to said land; and that Grantor will defend the same against the lawful claims of all persons whomever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2023, and the following [insert any other exceptions].

[Signature page to follow]

In Witness Whereof, Grantor has signed and sealed these presents the day and year above written.

Signed, sealed and delivered as to Grantor
in the presence of:

TKCB, Inc., a Florida corporation

By: _____
Thad Terry

Print Name: _____

Title: President

Print Name: _____

STATE OF _____

COUNTY OF _____

The foregoing instrument was sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this ____ day of ____, 2023, by Thad Terry as President of TKCB, Inc., on behalf of the company. He (____) is personally known to me or (____) produced _____ as identification.

Notary Public
My Commission Expires:

EXHIBIT A

PARCEL 1:

TRACT A, SUN LAKE ESTATES UNIT ONE, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 31, PAGE 26, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

PARCEL 2:

THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHEAST QUARTER (NE 1/4) AND THE SOUTH ONE-HALF (S 1/2) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BREVARD COUNTY, FLORIDA.

LESS AND EXCEPT:

SUN LAKE ESTATES UNIT ONE, AS RECORDED IN PLAT BOOK 31, PAGE 26, PUBLIC RECORDS OF SAID BREVARD COUNTY.

AND LESS AND EXCEPT:

SUN LAKE ESTATES UNIT TWO, AS RECORDED IN PLAT BOOK 31, PAGE 54, PUBLIC RECORDS OF SAID BREVARD COUNTY.

AND LESS AND EXCEPT:

A PARCEL OF LAND LYING IN THE EAST 1/2 OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BEING A PORTION OF CANAVERAL GROVES SUBDIVISION, RECORDED IN SURVEY BOOK 2, PAGE 58 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH 1/4 CORNER OF SAID SECTION 1, AND RUN SOUTH 01°01'56"W, ALONG THE WEST LINE OF THE NORTHEAST 1/4, A DISTANCE OF 2444.14 FEET TO A POINT ON THE NORTH LINE OF LOT 17 OF SAID CANAVERAL GROVES SUBDIVISION; THENCE RUN SOUTH 89°27'30" EAST, ALONG THE NORTH LINE OF LOTS 17 AND 18, BLOCK 1, A DISTANCE OF 340.00 FEET TO THE NORTHEAST CORNER OF SAID LOT 18, BLOCK 1; THENCE RUN SOUTH 01°02'22" WEST, ALONG THE EAST LINE OF SAID LOT 18, A DISTANCE OF 63.52 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 01°02'22" WEST, ALONG SAID EAST LINE AND IT'S SOUTHERLY EXTENSION, A DISTANCE OF 287.15 FEET TO A POINT ON THE SOUTH RIGHT OF WAY LINE OF DETROIT AVENUE (A 60 FOOT WIDE RIGHT OF WAY) AS SHOWN ON SAID SUBDIVISION MAP; THENCE RUN SOUTH 89°20'45" EAST, ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 5.01 FEET TO THE NORTHWEST CORNER OF LOT 7, BLOCK 15 OF SAID SUBDIVISION; THENCE RUN SOUTH 01°02'22" WEST, ALONG THE WEST LINE OF SAID LOT 7, A DISTANCE OF 256.70 FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 148.31 FEET; THENCE RUN SOUTH 01°14'26" WEST, A DISTANCE OF 7.50 FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 110.00 FEET; THENCE RUN SOUTH 01°14'26" WEST, A DISTANCE OF 50.50 FEET; THENCE RUN SOUTH 88°45'34"

EAST, A DISTANCE OF 528.00 FEET; THENCE RUN NORTH 01°14'26" EAST, 50.00 FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 45.29 TO A POINT ON THE CENTERLINE OF A 30 FOOT WIDE FLORIDA GAS TRANSMISSION EASEMENT; THENCE RUN NORTH 22°09'21" WEST, ALONG SAID CENTERLINE, A DISTANCE OF 1292.52 FEET TO AN ANGLE POINT; THENCE RUN NORTH 01°14'26" EAST, ALONG SAID CENTERLINE, A DISTANCE OF 428.68 FEET TO A POINT ON THE SOUTH LINE OF SUN LAKE ESTATES, UNIT ONE, RECORDED IN PLAT BOOK 31, PAGE 26 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA; THENCE RUN NORTH 88°45'34" WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 269.37 FEET TO AN ANGLE POINT; THENCE RUN NORTH 01°01'56" EAST, ALONG SAID SOUTH LINE, A DISTANCE OF 28.01 FEET TO AN ANGLE POINT; THENCE RUN NORTH 88°45'34" WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 80.00 FEET TO A POINT ON THE EAST LINE OF THE 320 FOOT WIDE FLORIDA POWER AND LIGHT CO. EASEMENT, PER OFFICIAL RECORDS BOOK 594, PAGE 145 OF SAID PUBLIC RECORDS; THENCE RUN SOUTH 01°01'56" WEST, ALONG SAID EAST LINE, A DISTANCE OF 891.14 FEET; THENCE RUN SOUTH 88°30'58" EAST, A DISTANCE OF 150.00 FEET; THENCE RUN SOUTH 01°01'56" WEST, A DISTANCE OF 200.00 FEET; THENCE RUN NORTH 88°30'58" WEST, A DISTANCE OF 130.01 FEET TO THE POINT OF BEGINNING.

BEING PART OF LOT 19 AND ALL OF LOTS 20 AND 21, BLOCK 1, CANAVERAL GROVES SUBDIVISION SECTION 1, AND PART OF LOTS 4, 6, 7, 13, 14, 15, 16 AND ALL OF LOT 5, BLOCK 15, CANAVERAL GROVES SUBDIVISION SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST AS RECORDED IN SURVEY BOOK 2, PAGE 50, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

AND LESS AND EXCEPT THAT PORTION OF THE NORTHEAST QUARTER OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BREVARD COUNTY, FLORIDA CONTAINED IN THE FOLLOWING DESCRIPTION:

A PARCEL OF LAND LYING IN THE EAST 1/2 OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BREVARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE CENTER OF SAID SECTION 1; THENCE S 89°27'30" E, ALONG THE SOUTH LINE OF THE NE 1/4 OF SAID SECTION 1, A DISTANCE OF 909.94 FEET TO A POINT ON THE CENTERLINE OF A 30 FOOT GAS TRANSMISSION LINE EASEMENT PER OFFICIAL RECORDS BOOK 587, PAGE 29 OF THE PUBLIC RECORDS OF SAID BREVARD COUNTY AND THE POINT OF BEGINNING; THENCE N 22°09'21" W, ALONG SAID CENTERLINE, A DISTANCE OF 614.87 FEET; THENCE, CONTINUE ALONG SAID CENTERLINE, N 01°14'26", A DISTANCE OF 428.68 FEET TO A POINT ON THE SOUTH RIGHT OF WAY LINE OF LAKE ERIE PLACE AND THE LIMITS OF THE PLAT OF SUN LAKE ESTATES UNIT TWO, AS RECORDED IN PLAT BOOK 31, PAGE 54 OF SAID PUBLIC RECORDS; THENCE ALONG THE LIMITS OF SAID PLAT OF SUN LAKE ESTATES UNIT TWO, THE FOLLOWING BEARINGS AND DISTANCES: S 88°45'34" E, A DISTANCE OF 544.00 FEET; THENCE N 01°14'26" E, A DISTANCE OF 50.00 FEET; THENCE S 88°45'34" E, A DISTANCE OF 95.25 FEET; THENCE N 01°14'48" E, A DISTANCE OF 108.18; THENCE S 88°29'53" E, A DISTANCE OF 25.00 FEET; THENCE N 01°14'48" E, A DISTANCE OF 25.00 FEET TO THE SW CORNER OF VISTA DEL LAGO UNIT NO. 2, AS RECORDED IN PLAT

BOOK 26, PAGE 105, OF SAID PUBLIC RECORDS; THENCE S 88°29'40" E, ALONG THE SOUTH LINE OF SAID VISTA DEL LAGO UNIT NO. 2 AND THE SOUTH LINE OF VISTA DEL LAGO UNIT NO. 3, AS RECORDED IN PLAT BOOK 28, PAGE 9, OF SAID PUBLIC RECORDS, A DISTANCE OF 1334.46 FEET TO A POINT ON THE EAST LINE OF SAID SECTION 1; THENCE S 01°27'58" W, ALONG SAID EAST LINE, A DISTANCE OF 1684.48 FEET TO THE NE CORNER OF LOT 32, BLOCK 1, CANAVERAL GROVES SUBDIVISION OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, AS RECORDED IN SURVEY BOOK 2, PAGE 58 OF SAID PUBLIC RECORDS; THENCE N 89°06'58" WEST, ALONG THE NORTH LINE OF SAID LOT 32, A DISTANCE OF 175.04 FEET TO THE NW CORNER OF SAID LOT 32, BLOCK 1; THENCE S 31°19'08" W, A DISTANCE OF 374.95 FEET TO THE NE CORNER OF LOT 30, BLOCK 1, OF SAID CANAVERAL GROVES SUBDIVISION; THENCE N 88°39'40" W, ALONG THE NORTH LINE OF SAID LOT 30 AND LOT 29, BLOCK 1, A DISTANCE OF 324.67 FEET TO THE NW CORNER OF SAID LOT 29, BLOCK 1; THENCE N 26°01'06" W, A DISTANCE OF 953.00 FEET TO THE NE CORNER OF LOT 23, BLOCK 1 OF SAID CANAVERAL GROVES SUBDIVISION TO A POINT ON THE SOUTH LINE OF THE NE 1/4 OF SAID SECTION 1; THENCE N 89°27'26" W, ALONG SAID SOUTH LINE, A DISTANCE OF 623.87 FEET TO THE POINT OF BEGINNING.

PARCEL 3:

THE EAST 170 FEET OF THE WEST 510 FEET OF THE NORTH 1/2 OF THE NORTH 1/2 OF THE NORTH 1/2 OF THE SOUTHEAST 1/4, OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BREVARD COUNTY, FLORIDA.

ALSO KNOWN AS TRACT 19, BLOCK 1 OF MAP RECORDED IN BREVARD COUNTY, FLORIDA, SURVEY BOOK 2, AT PAGE 58, INCLUDING ONE-HALF OF ROAD AND A PROPOSED CANAL.

LESS AND EXCEPT:

A PARCEL OF LAND LYING IN THE EAST 1/2 OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BEING A PORTION OF CANAVERAL GROVES SUBDIVISION, RECORDED IN SURVEY BOOK 2, PAGE 58 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH 1/4 CORNER OF SAID SECTION 1, AND RUN SOUTH 01°01'56"W, ALONG THE WEST LINE OF THE NORTHEAST 1/4, A DISTANCE OF 2444.14 FEET TO A POINT ON THE NORTH LINE OF LOT 17 OF SAID CANAVERAL GROVES SUBDIVISION; THENCE RUN SOUTH 89°27'30" EAST, ALONG THE NORTH LINE OF LOTS 17 AND 18, BLOCK 1, A DISTANCE OF 340.00 FEET TO THE NORTHEAST CORNER OF SAID LOT 18, BLOCK 1; THENCE RUN SOUTH 01°02'22" WEST, ALONG THE EAST LINE OF SAID LOT 18, A DISTANCE OF 63.52 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 01°02'22" WEST, ALONG SAID EAST LINE AND ITS SOUTHERLY EXTENSION, A DISTANCE OF 287.15 FEET TO A POINT ON THE SOUTH RIGHT OF WAY LINE OF DETROIT AVENUE (A 60 FOOT WIDE RIGHT OF WAY) AS SHOWN ON SAID SUBDIVISION MAP; THENCE RUN SOUTH 89°20'45" EAST, ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 5.01 FEET TO THE NORTHWEST CORNER OF LOT 7, BLOCK 15 OF SAID SUBDIVISION; THENCE RUN SOUTH 01°02'22" WEST, ALONG THE WEST LINE OF SAID LOT 7, A DISTANCE OF 256.70 FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 148.31 FEET; THENCE RUN SOUTH 01°14'26" WEST, A DISTANCE OF 7.50

FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 110.00 FEET; THENCE RUN SOUTH 01°14'26" WEST, A DISTANCE OF 50.50 FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 528.00 FEET; THENCE RUN NORTH 01°14'26" EAST, 50.00 FEET; THENCE RUN SOUTH 88°45'34" EAST, A DISTANCE OF 45.29 TO A POINT ON THE CENTERLINE OF A 30 FOOT WIDE FLORIDA GAS TRANSMISSION EASEMENT; THENCE RUN NORTH 22°09'21" WEST, ALONG SAID CENTERLINE, A DISTANCE OF 1292.52 FEET TO AN ANGLE POINT; THENCE RUN NORTH 01°14'26" EAST, ALONG SAID CENTERLINE, A DISTANCE OF 428.68 FEET TO A POINT ON THE SOUTH LINE OF SUN LAKE ESTATES, UNIT ONE, RECORDED IN PLAT BOOK 31, PAGE 26 OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA; THENCE RUN NORTH 88°45'34" WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 269.37 FEET TO AN ANGLE POINT; THENCE RUN NORTH 01°01'56" EAST, ALONG SAID SOUTH LINE, A DISTANCE OF 28.01 FEET TO AN ANGLE POINT; THENCE RUN NORTH 88°45'34" WEST, ALONG SAID SOUTH LINE, A DISTANCE OF 80.00 FEET TO A POINT ON THE EAST LINE OF THE 320 FOOT WIDE FLORIDA POWER AND LIGHT CO. EASEMENT, PER OFFICIAL RECORDS BOOK 594, PAGE 145 OF SAID PUBLIC RECORDS; THENCE RUN SOUTH 01°01'56" WEST, ALONG SAID EAST LINE, A DISTANCE OF 891.14 FEET; THENCE RUN SOUTH 88°30'58" EAST, A DISTANCE OF 150.00 FEET; THENCE RUN SOUTH 01°01'56" WEST, A DISTANCE OF 200.00 FEET; THENCE RUN NORTH 88°30'58" WEST, A DISTANCE OF 130.01 FEET TO THE POINT OF BEGINNING.

BEING PART OF LOT 19 AND ALL OF LOTS 20 AND 21, BLOCK 1, CANAVERAL GROVES SUBDIVISION SECTION 1, AND PART OF LOTS 4, 6, 7, 13, 14, 15, 16 AND ALL OF LOT 5, BLOCK 15, CANAVERAL GROVES SUBDIVISION SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST AS RECORDED IN SURVEY BOOK 2, PAGE 50, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

EXHIBIT J



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:
Sun Lake Estates

RESPONSIBLE OFFICIAL:
Thad Terry, Owner
5600 US Hwy 1N
Sharps, Florida 32927
(321) 639-1124
matlantisinvest@CFL.rr.com

PERMIT NUMBER: FLA010353
FILE NUMBER: FLA010353-007-DW3P
ISSUANCE DATE: May 1, 2020
EFFECTIVE DATE: October 28, 2020
EXPIRATION DATE: October 27, 2030

FACILITY:

Sun Lake Estates WWTF
616 Emerald Lake Dr
Cocoa, FL 32926-4671
Brevard County
Latitude: 28°25' 31.54" N Longitude: 80°46' 42.66" W

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

WASTEWATER TREATMENT:

This is an existing 0.099 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant (designed capacity 0.135 MGD AADF) consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

REUSE OR DISPOSAL:

Land Application R-001 is an existing 0.206 MGD annual average daily flow designed capacity rapid infiltration basin (RIB) system limited to 0.099 MGD AADF, the permitted capacity of the treatment plant. R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins with a total wetted area of 6.82 acres located approximately at latitude 28°25' 34" N, longitude 80°46' 43" W.

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 18 of this permit.

PERMITTEE: Sun Lake Estates
 FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
 EXPIRATION DATE: October 27, 2030

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. 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 direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.7.:

Parameter	Units	Max./Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (Flow to R-001)	MGD	Max Max	0.099 Report	Annual Average Monthly Average	5 Days/Week	Recording Flow Meter with Totalizer	FLW-1	See I.A.3
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	Monthly	Grab	EFA-1	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab	EFA-1	
Coliform, Fecal	#/100 mL	Max Max Max	200 800 Report	Annual Average Single Sample Monthly Geometric Mean	Monthly	Grab	EFA-1	See I.A.4 and I.A.5
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFA-1	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab	EFA-1	See I.A.6
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Monthly	Grab	EFA-1	
Nitrogen, Total	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab	EFA-1	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab	EFA-1	

PERMITTEE: Sun Lake Estates
FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
EXPIRATION DATE: October 27, 2030

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

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter at chlorine contact tank.
EFA-1	Chlorine contact tank effluent.

3. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
4. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. All other fecal coliform effluent limitations included in permit condition I.A.1 apply regardless of the number of values reported. [62-600.440(5)(b)]
5. To report the "90th percentile,"
- Place the bacteria results in ascending order (from lowest to highest value) and assign each sample a number, 1 for the lowest value.
 - Multiply the total number of samples by 0.9 to determine the 90th percentile level.
 - Report the value of the sample that corresponds to the 90th percentile level (e.g., 10 samples \times 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 \times 0.9 = 10.8, report the value of the 11th sample if rounding).
- [62-600.440(5)(a)3]
6. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-610.510] [62-600.440(5)(c) and (6)(b)]

PERMITTEE: Sun Lake Estates
 FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
 EXPIRATION DATE: October 27, 2030

B. 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.B.7.:

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	0.099 Report Report	Annual Average Monthly Average Quarterly Average	5 Days/Week	Recording Flow Meter with Totalizer	FLW-1	See I.B.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	Annually	Grab	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	Annually	Grab	INF-1	See I.B.3

PERMITTEE: Sun Lake Estates
FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
EXPIRATION DATE: October 27, 2030

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

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter at chlorine contact tank.
CAL-1	Calculate from daily flow.
INF-1	Raw influent to surge tank.

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. 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:
- a. 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;
 - 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]

6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]

PERMITTEE: Sun Lake Estates
 FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
 EXPIRATION DATE: October 27, 2030

7. 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, if any. 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 may submit either paper or electronic DMR forms. If submitting electronic DMR forms, 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/>. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms.

If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Central District Office at the address specified in Permit Condition I.B.8. by the twenty-eighth (28th) of the month following the month of operation.

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

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

Electronic submittal is preferred, by sending to DEP_CD@dep.state.fl.us .

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

Phone Number - (407)897-4100

[62-620.305]

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

PERMITTEE: Sun Lake Estates
 FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
 EXPIRATION DATE: October 27, 2030

II. BIOSOLIDS MANAGEMENT REQUIREMENTS

A. Basic Requirements

1. Biosolids generated by this facility may be transferred to BCUD/ Sykes Creek WRF (FLA0102695) 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)]
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.B.7.

Parameter	Units	Max./ Min	Biosolids Limitation		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Landfilled)	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	Weight of biosolids measured or calculated (based on volume and %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. 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)]

C. 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)]

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

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

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

[62-640.880(4)]

D. Receipt

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

III. GROUND WATER REQUIREMENTS

A. Construction Requirements

1. 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 IV land application system(s), all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for Land Application Site R-001 shall extend horizontally 100 feet from the application site and vertically to the base of the surficial aquifer. *[62-520.200(27)] [62-520.465]*
2. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. *[62-520.400 and 62-520.420(4)]*
3. If the concentration for any constituent listed in Permit Condition III.6. 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)]*

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4. 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.5., 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] [62-610.510]
5. The following monitoring wells shall be sampled for Reuse System R-001 located at Land Application Site RIB-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-1	SUN LAKE ESTATES/BACK GMS3005A14849	28°25' 31"	80°46' 46"	10	Surficial	Background	Existing
MWC-3	SUN LAKE ESTATES/COMP. GMS3005A14851	28°25' 55"	80°46' 43"	10	Surficial	Compliance	Existing
MWI-2	SUN LAKE ESTATES/INTER. GMS3005A14850	28°25' 45"	80°46' 44"	10	Surficial	Intermediate	Existing

[62-520.600] [62-610.510]

6. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.5.:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Semi-Annually; twice per year
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Semi-Annually; twice per year
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Semi-Annually; twice per year
Chloride (as Cl)	250	mg/L	Grab	Semi-Annually; twice per year
Coliform, Fecal	4	#/100mL	Grab	Semi-Annually; twice per year
pH	6.5-8.5	s.u.	Grab	Semi-Annually; twice per year
Turbidity	Report	NTU	Grab	Semi-Annually; twice per year

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

7. 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)] [62-610.510(3)(b)]
8. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210] [62-600.670(3)]
9. 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)]
10. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.B.7. [62-520.600(11)(b)] [62-600.670] [62-600.680(1)] [62-620.610(18)]

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11. 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)(1)]*

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

A. Part IV Rapid Infiltration Basins (RIBs)

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518]*
2. The maximum annual average loading rate to the RIBs shall be limited to 1.11 inches per day (as applied to the entire bottom area). *[62-610.523(3)]*
3. The RIBs normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4)]*
4. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. *[62-610.523(6) and (7)]*
5. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414]*
6. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-610.800(9)]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of 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 III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 1/2 hour/day for 5 days/week and one visit each weekend. The lead/chief operator must be a Class C operator, or higher.

2. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. *[62-699.311(1)]*

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

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

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3. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

C. Recordkeeping Requirements

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by 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)]

VI. SCHEDULES

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

Improvement Action	Completion Date
1. Submit an updated capacity analysis report in accordance with permit condition V.B.1.	Five years from the date of permit issuance

[62-620.320(6)]

2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or

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- b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

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

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. [62-625.500]

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):
 - 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

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- 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. *[62-610.518(1) and 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)]*
13. The permittee shall provide notice to the Department of the following:
 - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.Notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility. If pretreatment becomes necessary, this permit may be modified to require the permittee to develop and implement a local pretreatment program in accordance with the requirements of Chapter 62-625, F.A.C.

[62-620.625(2)]

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)]*

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4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
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)]*

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12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
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.

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- 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)]*
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 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 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.

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(2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Central District Office within 24 hours from the time the permittee becomes aware of the circumstances.

- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Central District Office shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. *[62-620.610(21)]*

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
- (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.b.(1) through (3) of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.b. through d. of this permit.

[62-620.610(22)]

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
- (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;

PERMITTEE: Sun Lake Estates
FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
EXPIRATION DATE: October 27, 2030

- (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



Reggie Phillips
Environmental Administrator
Permitting and Waste Cleanup Program

Attachment(s):
Discharge Monitoring Report

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME:	Sun Lake Estates Homeowners Association	PERMIT NUMBER:	FLA010353-007-DW3P	DMR EFFECTIVE DATE:	December 1, 2020
				EXPIRATION DATE:	October 27, 2030
MAILING ADDRESS:	5600 N Highway 1n Sharps, Florida 32927-	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Sun Lake Estates WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	616 Emerald Lake Dr Cocoa, FL 32926-4671	MONITORING GROUP DESCRIPTION:	Rapid Infiltration Basin, including Influent		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Brevard	MONITORING PERIOD	From: _____	To: _____	
OFFICE:	Central District				

Parameter		Quantity or Loading	Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Flow to R-001)	Sample Measurement									
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.099 (An.Avg.)	MGD						5 Days/Week	Flow Totalizer
Flow (Flow to R-001)	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD						5 Days/Week	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		Monthly	Grab
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		Monthly	Grab
Solids, Total Suspended	Sample Measurement									
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement			20.0 (An.Avg.)			mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement									
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement			60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		Monthly	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: Sun Lake Estates WWTF

MONITORING GROUP R-001

PERMIT NUMBER: FLA010353-007-DW3P

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		Monthly	Grab
Coliform, Fecal	Sample Measurement									
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement				Report (Mo.Geo.Mn.)	800 (Max.)	#/100mL		Monthly	Grab
pH	Sample Measurement									
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)	s.u.		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement									
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)		mg/L		5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement									
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement					12.0 (Max.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement									
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement									
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement									
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement									
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	mg/L		Monthly	Grab
Flow (Total Through Plant)	Sample Measurement									
PARM Code 50050 P Mon. Site No. FLW-1	Permit Requirement		0.099 (An.Avg.)	MGD					5 Days/Week	Flow Totalizer

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sun Lake Estates WWTF

MONITORING GROUP R-001

PERMIT NUMBER: FLA010353-007-DW3P

NUMBER:

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
		Report (Qt.Avg.)	Report (Mo.Avg.)	MGD							
Flow (Total Through Plant)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement									5 Days/Week	Flow Totalizer
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 P Mon. Site No. CAL-1	Permit Requirement					Report (Mo.Avg.)	percent			Monthly	Calculated

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME: Sun Lake Estates Homeowners Association
 MAILING ADDRESS: 5600 N Highway 1n
 Sharps, Florida 32927-

PERMIT NUMBER: FLA010353-007-DW3P

FACILITY: Sun Lake Estates WWTF
 LOCATION: 616 Emerald Lake Dr
 Cocoa, FL 32926-4671

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: R-001
 MONITORING GROUP DESCRIPTION: Rapid Infiltration Basin, including Influent

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

COUNTY: Brevard
 OFFICE: Central District

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

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement							
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement			Report (Mo.Avg.)	mg/L		Annually	Grab
Solids, Total Suspended (Influent)	Sample Measurement							
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement			Report (Mo.Avg.)	mg/L		Annually	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):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME: Sun Lake Estates Homeowners Association
 MAILING ADDRESS: 5600 N Highway 1n
 Sharps, Florida 32927-

PERMIT NUMBER: FLA010353-007-DW3P

FACILITY: Sun Lake Estates WWTF
 LOCATION: 616 Emerald Lake Dr
 Cocoa, FL 32926-4671

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

REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

COUNTY: Brevard
 OFFICE: Central District

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

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

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FLA010353-007-DW3P
From: _____ To: _____

Facility: Sun Lake Estates WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Flow (Flow to R-001) MGD	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	
Code	80082	50060	74055	50050	00620	00600	00665	00530	00400	
Mon. Site	EFA-1	EFA-1	EFA-1	FLW-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-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: Sun Lake Estates WWTF
 Permit Number: FLA010353-007-DW3P
 County: Brevard

Monitoring Well ID: MWB-1
 Well Type: Background
 Description: SUN LAKE
 ESTATES/BACK
 GMS3005A14849

Report Frequency: Semi-annually
 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	Semi-Annually; twice per year				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Coliform, Fecal	74055		Report	#/100mL	Grab	Semi-Annually; twice per year				
pH	00400		Report	s.u.	Grab	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	Grab	Semi-Annually; twice per year				

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: Sun Lake Estates WWTF
 Permit Number: FLA010353-007-DW3P
 County: Brevard

Monitoring Well ID: MWC-3
 Well Type: Compliance
 Description: SUN LAKE
 ESTATES/COMP.
 GMS3005A14851

Report Frequency: Semi-annually
 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	Semi-Annually; twice per year				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-Annually; twice per year				
Coliform, Fecal	74055		4	#/100mL	Grab	Semi-Annually; twice per year				
pH	00400		6.5-8.5	s.u.	Grab	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	Grab	Semi-Annually; twice per year				

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: Sun Lake Estates WWTF
 Permit Number: FLA010353-007-DW3P
 County: Brevard

Monitoring Well ID: MWI-2
 Well Type: Intermediate
 Description: SUN LAKE
 ESTATES/INTER.
 GMS3005A14850

Report Frequency: Semi-annually
 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	Semi-Annually; twice per year				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Coliform, Fecal	74055		Report	#/100mL	Grab	Semi-Annually; twice per year				
pH	00400		Report	s.u.	Grab	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	Grab	Semi-Annually; twice per year				

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.

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

PERMIT NUMBER: FLA010353-007

FACILITY NAME: Sun Lake Estates

FACILITY LOCATION: 616 Emerald Lake Dr, Cocoa, FL 32926-4671
Brevard County

NAME OF PERMITTEE: Thad Terry, Owner, Sun Lake Estates

PERMIT WRITER: Mohamed Abouelkheir

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA010353-007-DW3P

Application Submittal Date: February 24, 2020

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: Private

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity: 0.099 MGD Annual Average Daily Flow

Proposed Increase in Permitted Capacity: 0.00 MGD Annual Average Daily Flow

Proposed Total Permitted Capacity: 0.099 MGD Annual Average Daily Flow

d. Description of Wastewater Treatment

This is an existing 0.099 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant (designed capacity 0.135 MGD AADF) consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

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

Land Application R-001 is an existing 0.206 MGD annual average daily flow designed capacity rapid infiltration basin (RIB) system limited to 0.099 MGD AADF, the permitted capacity of the treatment plant. R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins with a total wetted area of 6.82 acres located approximately at latitude 28°25' 34" N, longitude 80°46' 43" W.

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not discharge to surface waters.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

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

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Flow to R-001)	MGD	Max	0.099	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
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.420(3)(b)1. FAC
		Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(b)2. FAC
		Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(b)3. FAC
		Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(b)4. FAC
Coliform, Fecal	#/100mL	Max	200	Annual Average	62-610.510 & 62-600.440(5)(a)1. FAC
		Max	800	Single Sample	62-610.510 & 62-600.440(5)(a)4. FAC
		Max	Report	Monthly Geometric Mean	62-610.510 & 62-600.440(5)(a)2. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-610.510 & 62-600.440(5)(c) FAC
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	62-610.510(1) FAC
Nitrogen, Total	mg/L	Max	Report	Annual Average	62-600.650(3), F.A.C.
		Max	Report	Monthly Average	62-600.650(3), F.A.C.
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-600.650(3), F.A.C.
		Max	Report	Monthly Average	62-600.650(3), F.A.C.

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Total Through Plant)	MGD	Max	0.099	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	Quarterly Average	62-600.700(2)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	62-600.650(3) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	62-600.650(3) 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

This facility does not discharge to surface waters. However, the R-001 land application system is in a nutrient-impaired basin (Upper St. Johns Basin), although there is no assessment available for the Lake Wilson Canal Outlet WBID 3048. When effluent is land applied it infiltrates into groundwater and has the potential to deliver nutrient loads to the aquifer and hydrologically connected surface waters. Monitoring for total nitrogen and total phosphorus is included for R-001, land application system in permit condition, in order to provide reasonable assurance that the discharge to ground waters will not cause or contribute to the nutrient impairment in the basin.

5. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA010353-007-DW3P expires on October 27, 2030.

6. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to Brevard County Regional Facility (FLA0102695) or disposed of in a Class I solid waste landfill.

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

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. 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, 601, 610, and 620, F.A.C.

8. PERMIT SCHEDULES

Improvement Action	Completion Date
1. Submit an updated capacity analysis report in accordance with permit condition V.B.1.	Five years from the effective date of the permit

9. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

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

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

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 during normal business hours at the location specified in item 14. Copies will be provided at a minimal charge per page.

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Permit Issuance

May 1, 2020

14. DEP CONTACT

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

Mohamed Abouelkheir, Engineering Specialist
Mohamed.Abouelkheir@FloridaDep.gov
Central District Office

3319 Maguire Blvd
Suite 232
Orlando, FL 32803-3767

Telephone No.: (407)897-2966

EXHIBIT K



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

November 14, 2019

Thad Terry, Owner
Sun Lake Estates Homeowners Association
616 Emerald Lake Drive
Cocoa, FL 32926

Re: Compliance Assistance Offer
Sun Lake Estates WWTF
DW FLA010353
Brevard County

Dear Mr. Terry:

A(n) inspection/file review was conducted at your property on October 31, 2019. During this inspection, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matter(s).

Specifically,

Potential non-compliance with the requirements of chapter 403, Florida Statutes, chapters 62-620 Florida Administrative Code were observed. Please see the attached inspection report for a full account of Department observations and recommendations.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Carolyn Hall of the Central District Office at (407) 897 -4114 or via e-mail at Carolyn.X.Hall@floridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

Sun Lake Estates; FLA010353.:
Compliance Assistance Offer
Page 2 of 2
November 14, 2019

David Smicherko

David Smicherko, Manager
Central District
Florida Department of Environmental Protection


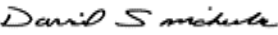
Enclosures: Inspection Report (with attachments)

cc: Jerry Padrick JPadrick67@bellsouth.net

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER COMPLIANCE INSPECTION REPORT

Facility Name and Physical Address Sun Lake Estates 616 Emerald Lake Drive Cocoa, FL 32926		WAFR ID FLA010353	County Brevard	Entry Date 10/31/2019	Entry Time 10:18 AM	
		Facility Phone # 321-639-8440		Exit Date 10/31/2019	Exit Time 10:59 AM	
LAT	28	°	25	'	31.54	''
LONG	80	°	46	'	42.66	''
Name(s) of Field Representatives(s) and Title Jerry Padrick, Operator		Operator Certification # C-0007051	Email JPadrick67@bellsouth.net	Phone 321-508-4714		
Name & Address of Permittee / Designated Rep. Thad Terry 5600 N US Highway 1 Cocoa, FL 32927		Title Owner	Email N/A	Phone 321-639-8440		
Inspection Type	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> I	Samples Taken(Y/N): N	Sample ID#: N/A	Samples Split (Y/N) : N
X Domestic <input type="checkbox"/> Industrial						

FACILITY COMPLIANCE AREAS EVALUATED							
IC = In Compliance; MC = Minor Out of Compliance; NC = Out of Compliance; SC = Significant out of Compliance; NA = Not Applicable; NE = Not Evaluated Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a "♦"							
	PERMITS/ORDERS		SELF MONITORING PROGRAM		FACILITY OPERATIONS		EFFLUENT/DISPOSAL
IC	1. ♦ Permit	IC	3. Laboratory	IC	6. Facility Site Review	IC	9. ♦ Effluent Quality
NC	2. ♦ Compliance Schedules	IC	4. Sampling	IC	7. Flow Measurement	IC	10. ♦ Effluent Disposal
		NC	5. ♦ Records & Reports	IC	8. ♦ Operation & Maintenance	IC	11. Biosolids
						IC	12. ♦ Groundwater
NA	14. Other					IC	13. ♦ SSO Survey

Facility and/or Order Compliance Status:	<input type="checkbox"/> In-Compliance	<input checked="" type="checkbox"/> Out-Of-Compliance	<input type="checkbox"/> Significant-Out-Of-Compliance
Recommended Actions: Compliance Assistance Offer			
Name(s) and Signature(s) of Inspector(s) Carolyn Hall 		District Office/Phone Number (407) 897-4114	Date 11/5/2019
Name and Signature of Reviewer David Smicherko 		District Office/Phone Number CD 407 897 4169	Date 11/12/2019

Single Event Violations (*SNC SEVs)

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
<input type="checkbox"/>	Permit	Effluent Violations - Unapproved Bypass	Wastewater was diverted from a portion of the treatment process without department approval.	UNBY
<input type="checkbox"/>	*Permit	Permit Violations - Discharge Without a Valid Permit	The facility was operating without a permit or with an expired permit.	UPHI
<input type="checkbox"/>	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
<input type="checkbox"/>	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
<input type="checkbox"/>	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
<input type="checkbox"/>	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
<input type="checkbox"/>	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
<input type="checkbox"/>	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
<input type="checkbox"/>	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
<input type="checkbox"/>	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
<input type="checkbox"/>	Effluent Quality	Effluent Violations - Narrative Effluent Violation	The facility violated a permit or enforcement narrative effluent limit.	XNEV
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Reported Fish Kill	The facility had a discharge of wastewater that resulted in a fish kill.	XFSH
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Failure to Maintain Records or Meet Record Keeping Requirements	The facility failed to keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system.	SSO2
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Failure to monitor	The facility failed to collect and/or analyze bacteriological samples for sewage spills that reached surface waters.	SSO3
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Failure to report violation that may endanger public health 122.41(l)(7)	The facility failed to report a sewage spill within 24 hours of discovery.	SSO4
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Improper Operation and Maintenance	The facility failed to perform routine preventative maintenance to keep the collection/transmission system in good working order.	SSO5

Facility Treatment Summary: An existing 0.099 million gallon per day (MGD) annual average daily flow (AADF) (rerated from 0.135 MGD AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins (RIBs).

1. ♦Permit: In-Compliance

Current Permit available on-site?	Yes
Date Permit issued	October 28, 2015
Date Permit Expires	October 27, 2020
Permit Renewal Application due by	April 30, 2020.
Administrative or Judicial Orders?	N/A

2. ♦Compliance Schedules: Out-of-Compliance

Compliance Schedule in Permit met?	No
Compliance Schedules in Order are being met?	Not Applicable

2.1 Deficiency: At the time of inspection the facility failed to meet the schedule in the permit/order.

Improvement Action	Completion Date
1. Remove the grit from the surge tank	02/15/2016
2. Repair tank leaks	02/15/2016
3. Register for and begin using the Departments EzDMR system, per condition I.B.7 of this permit	Within 6 months of effective date of permit

Rule/Permit Reference: 403.161(1)(b), F.S. It shall be a violation of this chapter, and it shall be prohibited for any person: (b) To fail to obtain any permit required by this chapter or by rule or regulation, or to violate or fail to comply with any rule, regulation, order, permit, or certification adopted or issued by the department pursuant to its lawful authority.

Corrective Action: Please complete the improvement actions and notify the department by email once completed.

2.2 Observation: At the time of inspection the leaks had been patched but are still have minor seepage in four areas of the plant. The grit has not been removed from the surge tank which could be a partial cause to the excessive foaming throughout the facility aeration basins.

3. Laboratory: In-Compliance

Contract Lab Name and Certification #	Test America
Facility DOH Certification #	E-84282

4. Sampling: In-Compliance

Sampling conducted during inspection?	Yes
Sampling observed during inspection?	No
Sampling conducted at locations identified by the permit?	Yes
Safe access to sampling locations?	Yes

- 4.1 Observation: At the time of inspection the operator took a total chlorine residual of .5 mg/L and a pH sample of 7.4. Samples were pulled from the correct sampling location of EFA-1, chlorine contact chamber effluent.

5. Records and Reports: In-Compliance

Documents/Records reviewed	Time frame
Discharge Monitoring Reports (DMRs)	9/01/2018 to 9/30/2019

5.1 Deficiency: The Annual Average Daily Flow (AADF) as computed from the Discharge Monitoring Reports (DMRs) from October 2018 was .40 million gallons per day (MGD), which exceeded the plant design capacity of .099 MGD.

Rule/Permit Reference: Chapter 62-620.610(18)(a), F.A.C. - 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.

Corrective Action: The exceedance was reported on the DMR as required. No other flow exceedances were noted during the DMR review period. No further action is required at this time.

5.2 Observation:

- There is no RPZ on site.
- A copy of the operation and maintenance manual was available on site.
- A valid operator certification was on site for Jerry Padrick (C-0007051) and Eva Padrick (D-0022210) with both expiring on April 30th, 2021.
- The operators log book was bound and properly numbered. All sampling and maintenance were logged.
- The operator is meeting the onsite staffing requirements of five days per week plus one weekend day for a total of a half hour each day.

6 Facility Site Review: In-Compliance

6.2 Observation: Access Control- The facility was fenced, locked, and had the appropriate advisory signs. There were no odors, or excessive noise noted. There is no RPZ on site. There was some minor seepage in four areas on the east side of the plant. There was corrosion noted on the piping across the top of the facility. The operator notes it is scheduling to be painted.

6.3 Observation: Headworks- Influent comes in from the lift station through the bar screen and into the surge tank. The surge tank contains two operational pumps. Debris is cleaned from bar screen each visit and disposed of into a covered screening container.

6.4 Observation: Aeration- The facility contains three aeration basins. There are two operational blowers on site. Each blower had belt guards. The basins appeared to be adequately mixing however there was excessive foam throughout the basins. The RAS was in the correct position. The color was brown to dark brown. The operator notes a surfactant issue and a small air leak that is scheduled to be patched.

6.5 Observation: Clarifier- The facility contains one clarifier. The clarifier had some ashing. The stilling was clean, and the simmer was operational. The weirs were level and without fouling. The effluent leaving the weir appeared clear.

6.6 Observation: Disinfection/ Chlorine Contact Chamber- The facility contains one chlorine contact chamber with baffles. Sodium hypochlorite is used for disinfection. There is one Stenner hypo pump that was operational. Effluent leaving the chamber was clear.

6.7 Observation: Lift Station- The facility contains one lift with two operational pumps. The lift station is within the facility fence. Audible and visual alarms were present.

6.8 Observation: Digester- The facility contains two sludge holding basins. One is smaller and used as needed. Each digester had sufficient storage, no odors, and no vectors were detected.

6 Flow Measurement: In-Compliance

Flow meter present and location as per permit?	Yes
Easy access to flow meter?	Yes
Date of last flow meter calibration	December 18, 2018

6.1 Observation: The flow calibration is done annually by Jerry Padrick.

7 ♦Operation and Maintenance: In-Compliance

Facility being operated as per permit?	Yes
--	-----

8 ♦ **Effluent Quality:** In-Compliance

DMRs review period	9/30/2018-8/31/2019
Any exceedances?	No

9 ♦ **Effluent Disposal:** In-Compliance

Facility discharging?	Yes
Discharge location(s) as per permit?	Yes

9.1 Observation: The facility contains four Rapid Infiltration Basins (RIBs) along the powerline easement. They are fenced with signage at each entry point. The berms were maintained and without excessive vegetation. Each RIB had sufficient storage.

10 **Biosolids:** In-Compliance

10.1.1 Observation: At the time of inspection the most recent biosolid hauling record on site was from June 28th, 2019. All Service Sanitation hauled 4,000 gallons of sludge.

11 ♦ **Groundwater Quality:** In-Compliance

DMRs review period	09/01/2018 to 09/30/2019
Any exceedances?	See Observation
All monitoring wells accessible, secured & locked?	See Observation

11.1 Observation: Prior to inspection there was no monitoring well sampling data in the data base past the first part of 2018. On inspection entry the operator provided a hard copy of the most recent sampling data. This copy was turned in to the front desk for data entry. There does not appear to be any exceedances. At the time of inspection, I was able to access one monitoring well on the south west side of the RIBs. The well was locked and had the concrete pad but was not numbered. It was recommended to address the rust on the outside of the piping.

12 ♦ **SSO Survey:** In-Compliance

12.1 Observation: During the review period of September 01, 2018 through September 30, 2019 there were no spills reported.

13 **Other:** Not Applicable

EXHIBIT L



Florida Department of Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

September 14, 2018

Thad Terry, Owner
Sun Lake Estates
616 Emerald Lake Drive
Cocoa, FL 32926

Re: Sun Lake Estates
DW Facility ID #FLA010353
Brevard County

Dear Mr. Terry:

Department personnel conducted an inspection of the above-referenced facility on August 14, 2018. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Megan Warr at 407-897-2915 or via e-mail at Megan.Warr@FloridaDEP.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Reggie Phillips".

Reggie Phillips, Manager
Central District
Florida Department of Environmental Protection



Enclosure: Inspection Report

cc: FDEP: Reggie Phillips; Megan Warr
Jerry Padrick, JPadrick67@bellsouth.net

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER COMPLIANCE INSPECTION REPORT**

Facility Name and Physical Address Sun Lake Estates 616 Emerald Lake Drive Cocoa, FL 32926		WAFR ID FLA010353	County Brevard	Entry Date 8/14/2018	Entry Time 8:00 AM	
		Facility Phone # 321-639-8440		Exit Date 8/14/2018	Exit Time 9:00 AM	
LAT	28	°	25	'	31.54	''
LONG	80	°	46	'	42.66	''
Name(s) of Field Representatives(s) and Title Jerry Padrick, Operator		Operator Certification # 007051	Email JPadrick67@bellsouth.net	Phone 321-508-4714		
Name & Address of Permittee / Designated Rep. Thad Terry 5600 N US Highway 1 Cocoa, FL 32927		Title Owner	Email N/A	Phone 321-639-8440		
Inspection Type	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> I	Samples Taken(Y/N): N	Sample ID#: N/A	Samples Split (Y/N) : N
X Domestic <input type="checkbox"/> Industrial						

FACILITY COMPLIANCE AREAS EVALUATED							
IC = In Compliance; MC = Minor Out of Compliance; NC = Out of Compliance; SC = Significant out of Compliance; NA = Not Applicable; NE = Not Evaluated Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a "♦"							
	PERMITS/ORDERS		SELF MONITORING PROGRAM		FACILITY OPERATIONS		EFFLUENT/DISPOSAL
IC	1. ♦Permit	IC	3. Laboratory	IC	6. Facility Site Review	NC	9. ♦Effluent Quality
NC	2. ♦Compliance Schedules	IC	4. Sampling	IC	7. Flow Measurement	IC	10. ♦Effluent Disposal
		IC	5. ♦Records & Reports	IC	8. ♦Operation & Maintenance	IC	11. Biosolids
						IC	12. Groundwater
NA	14. Other					NA	13. ♦SSO Survey

Facility and/or Order Compliance Status:	<input type="checkbox"/> In-Compliance	<input checked="" type="checkbox"/> Out-Of -Compliance	<input type="checkbox"/> Significant-Out-Of-Compliance
Recommended Actions: Click or tap here to enter text.			
Name(s) and Signature(s) of Inspector(s) Megan Warr 		District Office/Phone Number Central District – 407-897-2915	Date 9/13/2018
Name and Signature of Reviewer Reggie Phillips 		District Office/Phone Number Central District – 407-897-4132	Date 9/13/2018

Single Event Violations

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
<input type="checkbox"/>	Effluent Disposal	General	Operation of unpermitted disposal system at a permitted facility.	EDUN
<input type="checkbox"/>	Laboratory	General	The laboratory is not certified by the Department of Health.	LNCE
<input type="checkbox"/>	Permit	General	Unauthorized discharge from the collection system with a high potential for water quality or health impacts	UNBP
<input type="checkbox"/>	Permit	General	The facility is operating without a wastewater permit.	UPHI
<input type="checkbox"/>	Records and Reports	General	Falsification of any record or report	FARR
<input type="checkbox"/>	Records and Reports	General	The Permittee failed to report noncompliance to the Department within 24 hours as required by 62-620.610(20), F.A.C.	RSWP

Facility Treatment Summary: 0.099 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

1. Permit: In-Compliance

Current Permit available on-site?	Yes
Date Permit issued	10/28/2015
Date Permit Expires	10/27/2020
Permit Renewal Application due by	4/30/2020
Administrative or Judicial Orders?	N/A

1.1 Additional Comments: Please note the permit renewal application due date in the table above. A complete permit renewal application must be submitted at least 180 days before the expiration date of this permit.

2. Compliance Schedules: Out-of-Compliance

Compliance Schedule in Permit met?	No
Compliance Schedules in Order are being met?	Not Applicable

2.1 Deficiency:

Leaks are observed on the east side of the clarifier.

Rule/Permit Reference:

Permit Condition VI.1.2- Repair tank leaks.

Corrective Action:

Repair leaks from tank. The operator provided photos on 9/12/18 showing that all tank leaks have been repaired. No further corrective action required at this time.

2.2 Observation:

- The additional items noted in the compliance schedule items had been completed at the time of inspection.

3. Laboratory: In-Compliance

Contract Lab Name and Certification #	Test America, Savannah – E87052 Test America, Tampa – E84282 Environmental Conservation Lab Inc. (ENCO) – E83182
Facility DOH Certification #	N/A

4. Sampling: In-Compliance

Sampling conducted during inspection?	No
Sampling observed during inspection?	Yes

Sampling conducted at locations identified by the permit?	Yes
Safe access to sampling locations?	Yes

4.1 Observation:

- Chlorine residual 0.58 mg/L at the time of inspection.
- Chlorine meter is verified daily with secondary standards. Standards expiration date: May 2020.

5. Records and Reports: In-Compliance

Documents/Records reviewed	Timeframe
Discharge Monitoring Reports (DMRs)	From 08/01/17 to 07/31/18

5.1 Observation:

- The DMRs throughout the above stated review period were all received by the Department on time and complete.
- The operators log book was properly bound with number pages. The records are organized, concise, and include sampling results and relevant maintenance. Entries indicate the operator is visiting the site six days per week and meeting the minimum onsite time requirement per the permit.
- The flow meter calibration records were available onsite. Calibration last performed 8/9/2018.
- The operations and maintenance manual is available onsite.
- The facility utilizes well water, therefore no RPZ certification is applicable for the site.
- The operator license for Jerry Padrick is valid and available onsite. Class C license number 007051.

6. Facility Site Review: In-Compliance

6.1 Observation:

- *Access Control*- The facility grounds for the plant were properly locked and secured by a fence.
- *Headworks*- The facility contains one manual barscreen. The headworks is cleaned approximately twice per week and screenings are placed into a covered container.
- *Aeration Basin/Blower*- The facility contains two blowers and two aeration basins. Both blowers are operational and have proper belt guards. The contents in the aeration chambers were light brown in color, appeared to be well mixed, and all aerators were operational. No excessive noise or odor were observed. Foam was observed in the aeration basins, however the operator attributed the foam due to infiltration/inflow (I/I) caused by a recently damaged manhole which was properly reported on the DMR.
- *Clarifier*- The facility contains one clarifier. The skimmer was functioning and the surface of the clarifier was mostly clear. The weir appeared level, clean, and to be functioning properly.

- *Disinfection*- Sodium hypochlorite is used for disinfection on site. The chlorine contact chamber contained clear effluent, proper baffles, and lacked solids.
- *Digester/ Sludge Holding Tank*- The facility contains a two-stage sludge holding basins. There is sufficient storage available, no excessive odors were noticed, and no vectors were observed.
- *Lift Station*- The facility contains one lift station. It is contained within the locking fence of the water treatment grounds with a visual alarm.
- No filtration is applicable at this facility.

7. Flow Measurement: In-Compliance

Flow meter present and location as per permit?	Yes
Easy access to flow meter?	Yes
Date of last flow meter calibration	08/09/18

8. Operation and Maintenance: In-Compliance

Facility being operated as per permit?	Yes
--	-----

9. Effluent Quality: Out-of-Compliance

DMRs review period	From 08/01/17 to 07/31/18
Any exceedances?	Yes

9.1 Deficiency:

The following exceedances were noted during the review period:

Month	Monitoring Location	Parameter	Result	Limit (mg/L)
October 2017	R001	Flow	0.107 MGD	0.099 MGD
June 2018	R001	Total Nitrate	16.0 mg/L	12.0 mg/L

Rule/Permit Reference:

Permit Condition I(A)1 - During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.7

Corrective Action:

The flow exceedance is attributed to Hurricane Irma. Per the DMR and operator comments, the Nitrate exceedance was a result of an I/I issue due to a manhole damaged during roadwork done by an unrelated party. The manhole has since been repaired and no continual issues have been observed. No further corrective actions are requested at this time.

10. Effluent Disposal: In-Compliance

Facility discharging?	Yes
Discharge location(s) as per permit?	Yes

10.1 Observation:

- The facility contains four dual-cell rapid infiltration basins (RIBs). Loading is rotated between the four eastern cells, with the western cells connected via an overflow for periods of excessive wet weather or high flow.
- All RIBs were fully drained at the time of inspection. Vegetation is well maintained.

11. Biosolids: In-Compliance

11.1 Observation:

- All Service Sanitation hauls biosolids approximately every 6-8 weeks to the BCUD Viera Regional Facility.
- Biosolids hauling records are maintained onsite. Last hauled on 8/10/2018 per onsite records.

12. Groundwater Quality: In-Compliance

DMRs review period	From 08/01/17 to 07/31/18
Any exceedances?	Yes
All monitoring wells accessible, secured & locked?	Yes

12.1 Observation:

- A review of the groundwater monitoring reports indicated pH levels below the level of compliance (6.8-8.5 SU) in May 2018 at 6.0 SU. However the background well results indicated a natural background pH of 3.8 SU. The low pH from the compliance well is determined to be a result of the natural environmental conditions, rather than non-compliance or negligence by the facility.

13. SSO Survey: Not Applicable

14. Other: Not Applicable



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

November 14, 2019

Thad Terry, Owner
Sun Lake Estates Homeowners Association
616 Emerald Lake Drive
Cocoa, FL 32926

Re: Compliance Assistance Offer
Sun Lake Estates WWTF
DW FLA010353
Brevard County

Dear Mr. Terry:

A(n) inspection/file review was conducted at your property on October 31, 2019. During this inspection, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matter(s).

Specifically,

Potential non-compliance with the requirements of chapter 403, Florida Statutes, chapters 62-620 Florida Administrative Code were observed. Please see the attached inspection report for a full account of Department observations and recommendations.

It is the Department's desire that you are able to adequately address the aforementioned issues so that this matter can be closed. Your failure to respond promptly may result in the initiation of formal enforcement proceedings.

Please address your response and any questions to Carolyn Hall of the Central District Office at (407) 897 -4114 or via e-mail at Carolyn.X.Hall@floridaDEP.gov. We look forward to your cooperation with this matter.

Sincerely,

Sun Lake Estates; FLA010353.:
Compliance Assistance Offer
Page 2 of 2
November 14, 2019

David Smicherko

David Smicherko, Manager
Central District
Florida Department of Environmental Protection


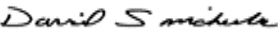
Enclosures: Inspection Report (with attachments)

cc: Jerry Padrick JPadrick67@bellsouth.net

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER COMPLIANCE INSPECTION REPORT

Facility Name and Physical Address Sun Lake Estates 616 Emerald Lake Drive Cocoa, FL 32926		WAFR ID FLA010353	County Brevard	Entry Date 10/31/2019	Entry Time 10:18 AM	
		Facility Phone # 321-639-8440		Exit Date 10/31/2019	Exit Time 10:59 AM	
LAT	28	°	25	'	31.54	''
LONG	80	°	46	'	42.66	''
Name(s) of Field Representatives(s) and Title Jerry Padrick, Operator		Operator Certification # C-0007051	Email JPadrick67@bellsouth.net	Phone 321-508-4714		
Name & Address of Permittee / Designated Rep. Thad Terry 5600 N US Highway 1 Cocoa, FL 32927		Title Owner	Email N/A	Phone 321-639-8440		
Inspection Type	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> I	Samples Taken(Y/N): N	Sample ID#: N/A	Samples Split (Y/N) : N
X Domestic <input type="checkbox"/> Industrial						

FACILITY COMPLIANCE AREAS EVALUATED							
IC = In Compliance; MC = Minor Out of Compliance; NC = Out of Compliance; SC = Significant out of Compliance; NA = Not Applicable; NE = Not Evaluated Significant Non-Compliance Criteria Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked by a "♦"							
	PERMITS/ORDERS		SELF MONITORING PROGRAM		FACILITY OPERATIONS		EFFLUENT/DISPOSAL
IC	1. ♦ Permit	IC	3. Laboratory	IC	6. Facility Site Review	IC	9. ♦ Effluent Quality
NC	2. ♦ Compliance Schedules	IC	4. Sampling	IC	7. Flow Measurement	IC	10. ♦ Effluent Disposal
		NC	5. ♦ Records & Reports	IC	8. ♦ Operation & Maintenance	IC	11. Biosolids
						IC	12. ♦ Groundwater
NA	14. Other					IC	13. ♦ SSO Survey

Facility and/or Order Compliance Status:	<input type="checkbox"/> In-Compliance	<input checked="" type="checkbox"/> Out-Of-Compliance	<input type="checkbox"/> Significant-Out-Of-Compliance
Recommended Actions: Compliance Assistance Offer			
Name(s) and Signature(s) of Inspector(s) Carolyn Hall 		District Office/Phone Number (407) 897-4114	Date 11/5/2019
Name and Signature of Reviewer David Smicherko 		District Office/Phone Number CD 407 897 4169	Date 11/12/2019

Single Event Violations (*SNC SEVs)

Check for Yes	Evaluation Area	Description	Finding Description	Finding ID
<input type="checkbox"/>	Permit	Effluent Violations - Unapproved Bypass	Wastewater was diverted from a portion of the treatment process without department approval.	UNBY
<input type="checkbox"/>	*Permit	Permit Violations - Discharge Without a Valid Permit	The facility was operating without a permit or with an expired permit.	UPHI
<input type="checkbox"/>	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
<input type="checkbox"/>	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
<input type="checkbox"/>	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
<input type="checkbox"/>	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
<input type="checkbox"/>	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
<input type="checkbox"/>	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
<input type="checkbox"/>	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
<input type="checkbox"/>	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
<input type="checkbox"/>	Effluent Quality	Effluent Violations - Narrative Effluent Violation	The facility violated a permit or enforcement narrative effluent limit.	XNEV
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Reported Fish Kill	The facility had a discharge of wastewater that resulted in a fish kill.	XFSH
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Failure to Maintain Records or Meet Record Keeping Requirements	The facility failed to keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system.	SSO2
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Failure to monitor	The facility failed to collect and/or analyze bacteriological samples for sewage spills that reached surface waters.	SSO3
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Failure to report violation that may endanger public health 122.41(l)(7)	The facility failed to report a sewage spill within 24 hours of discovery.	SSO4
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Improper Operation and Maintenance	The facility failed to perform routine preventative maintenance to keep the collection/transmission system in good working order.	SSO5

Facility Treatment Summary: An existing 0.099 million gallon per day (MGD) annual average daily flow (AADF) (rerated from 0.135 MGD AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins (RIBs).

1. ♦Permit: In-Compliance

Current Permit available on-site?	Yes
Date Permit issued	October 28, 2015
Date Permit Expires	October 27, 2020
Permit Renewal Application due by	April 30, 2020.
Administrative or Judicial Orders?	N/A

2. ♦Compliance Schedules: Out-of-Compliance

Compliance Schedule in Permit met?	No
Compliance Schedules in Order are being met?	Not Applicable

2.1 Deficiency: At the time of inspection the facility failed to meet the schedule in the permit/order.

Improvement Action	Completion Date
1. Remove the grit from the surge tank	02/15/2016
2. Repair tank leaks	02/15/2016
3. Register for and begin using the Departments EzDMR system, per condition I.B.7 of this permit	Within 6 months of effective date of permit

Rule/Permit Reference: 403.161(1)(b), F.S. It shall be a violation of this chapter, and it shall be prohibited for any person: (b) To fail to obtain any permit required by this chapter or by rule or regulation, or to violate or fail to comply with any rule, regulation, order, permit, or certification adopted or issued by the department pursuant to its lawful authority.

Corrective Action: Please complete the improvement actions and notify the department by email once completed.

2.2 Observation: At the time of inspection the leaks had been patched but are still have minor seepage in four areas of the plant. The grit has not been removed from the surge tank which could be a partial cause to the excessive foaming throughout the facility aeration basins.

3. Laboratory: In-Compliance

Contract Lab Name and Certification #	Test America
Facility DOH Certification #	E-84282

4. Sampling: In-Compliance

Sampling conducted during inspection?	Yes
Sampling observed during inspection?	No
Sampling conducted at locations identified by the permit?	Yes
Safe access to sampling locations?	Yes

- 4.1 Observation: At the time of inspection the operator took a total chlorine residual of .5 mg/L and a pH sample of 7.4. Samples were pulled from the correct sampling location of EFA-1, chlorine contact chamber effluent.

5. Records and Reports: In-Compliance

Documents/Records reviewed	Time frame
Discharge Monitoring Reports (DMRs)	9/01/2018 to 9/30/2019

5.1 Deficiency: The Annual Average Daily Flow (AADF) as computed from the Discharge Monitoring Reports (DMRs) from October 2018 was .40 million gallons per day (MGD), which exceeded the plant design capacity of .099 MGD.

Rule/Permit Reference: Chapter 62-620.610(18)(a), F.A.C. - 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.

Corrective Action: The exceedance was reported on the DMR as required. No other flow exceedances were noted during the DMR review period. No further action is required at this time.

5.2 Observation:

- There is no RPZ on site.
- A copy of the operation and maintenance manual was available on site.
- A valid operator certification was on site for Jerry Padrick (C-0007051) and Eva Padrick (D-0022210) with both expiring on April 30th, 2021.
- The operators log book was bound and properly numbered. All sampling and maintenance were logged.
- The operator is meeting the onsite staffing requirements of five days per week plus one weekend day for a total of a half hour each day.

6 Facility Site Review: In-Compliance

6.2 Observation: Access Control- The facility was fenced, locked, and had the appropriate advisory signs. There were no odors, or excessive noise noted. There is no RPZ on site. There was some minor seepage in four areas on the east side of the plant. There was corrosion noted on the piping across the top of the facility. The operator notes it is scheduling to be painted.

6.3 Observation: Headworks- Influent comes in from the lift station through the bar screen and into the surge tank. The surge tank contains two operational pumps. Debris is cleaned from bar screen each visit and disposed of into a covered screening container.

6.4 Observation: Aeration- The facility contains three aeration basins. There are two operational blowers on site. Each blower had belt guards. The basins appeared to be adequately mixing however there was excessive foam throughout the basins. The RAS was in the correct position. The color was brown to dark brown. The operator notes a surfactant issue and a small air leak that is scheduled to be patched.

6.5 Observation: Clarifier- The facility contains one clarifier. The clarifier had some ashing. The stilling was clean, and the simmer was operational. The weirs were level and without fouling. The effluent leaving the weir appeared clear.

6.6 Observation: Disinfection/ Chlorine Contact Chamber- The facility contains one chlorine contact chamber with baffles. Sodium hypochlorite is used for disinfection. There is one Stenner hypo pump that was operational. Effluent leaving the chamber was clear.

6.7 Observation: Lift Station- The facility contains one lift with two operational pumps. The lift station is within the facility fence. Audible and visual alarms were present.

6.8 Observation: Digester- The facility contains two sludge holding basins. One is smaller and used as needed. Each digester had sufficient storage, no odors, and no vectors were detected.

6 Flow Measurement: In-Compliance

Flow meter present and location as per permit?	Yes
Easy access to flow meter?	Yes
Date of last flow meter calibration	December 18, 2018

6.1 Observation: The flow calibration is done annually by Jerry Padrick.

7 ♦Operation and Maintenance: In-Compliance

Facility being operated as per permit?	Yes
--	-----

8 ♦ **Effluent Quality:** In-Compliance

DMRs review period	9/30/2018-8/31/2019
Any exceedances?	No

9 ♦ **Effluent Disposal:** In-Compliance

Facility discharging?	Yes
Discharge location(s) as per permit?	Yes

9.1 Observation: The facility contains four Rapid Infiltration Basins (RIBs) along the powerline easement. They are fenced with signage at each entry point. The berms were maintained and without excessive vegetation. Each RIB had sufficient storage.

10 **Biosolids:** In-Compliance

10.1.1 Observation: At the time of inspection the most recent biosolid hauling record on site was from June 28th, 2019. All Service Sanitation hauled 4,000 gallons of sludge.

11 ♦ **Groundwater Quality:** In-Compliance

DMRs review period	09/01/2018 to 09/30/2019
Any exceedances?	See Observation
All monitoring wells accessible, secured & locked?	See Observation

11.1 Observation: Prior to inspection there was no monitoring well sampling data in the data base past the first part of 2018. On inspection entry the operator provided a hard copy of the most recent sampling data. This copy was turned in to the front desk for data entry. There does not appear to be any exceedances. At the time of inspection, I was able to access one monitoring well on the south west side of the RIBs. The well was locked and had the concrete pad but was not numbered. It was recommended to address the rust on the outside of the piping.

12 ♦ **SSO Survey:** In-Compliance

12.1 Observation: During the review period of September 01, 2018 through September 30, 2019 there were no spills reported.

13 **Other:** Not Applicable

From: [JERRY PADRICK](#)
To: [Hall, Carolyn X](#)
Subject: Sunlake repair
Date: Monday, January 13, 2020 3:54:54 PM
Attachments: [20191226_093824.jpeg](#)
[20191226_093830.jpeg](#)
[20191231_134410.jpeg](#)
[20191231_134424.jpeg](#)
[20191231_134444.jpeg](#)
[20191231_134344.jpeg](#)
[20191231_134348.jpeg](#)

Hi Carolyn here are some pictures of Sunlake's repair of wall leaks



















From: [JERRY PADRICK](#)
To: [Hall, Carolyn X](#)
Subject: Painted Manifold
Date: Tuesday, January 28, 2020 12:24:45 PM
Attachments: [20200120_105054_HDR.jpeg](#)
[1579884936635.jpg](#)

Here Is the manifold you ask me to paint.  





From: [george](#)
To: [DEP_CD](#)
Subject: SunLake Estates FLA010353
Date: Saturday, February 22, 2020 8:33:18 AM
Attachments: [FORM 1 2020.pdf](#)
[slCAR-2020-signed.pdf](#)
[slOMPR-2020-signed.pdf](#)
[Sunlake FORM 2 2020.-signed.pdf](#)

Enclosed, please see the following documents related to this permit renewal application

FORM 1 2020.pdf
slCAR-2020-signed.pdf
slOMPR-2020-signed.pdf
Sunlake FORM 2 2020.-signed.pdf

A check for the permit application fee is being transmitted under regular mail.

All docs needing PE sign and seal have been signed with a digital seal. The certification authority authenticating identity is Identrust.

Thanks so much, call me if an questions.

--

George McDonald, P.E. McDonald Group International, Inc. Desk
352-637-1652 Toll Free 877-593-2364 Fax 888-523-0884 Mobile 352-476-3951



WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

I - IDENTIFICATION NUMBER:

Facility ID FLA010353

II - CHARACTERISTICS:

INSTRUCTIONS: Complete the questions below to determine whether you need to submit any permit application forms to the Department of Environmental Protection. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the blank in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements. See Section B of the instructions. See also, Section C of the instructions for definitions of the terms used here.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a domestic wastewater facility which results in a discharge to surface or ground waters?	X		
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		X	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?		X	
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?		X	
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		X	
F. Does or will this facility discharge non-process wastewater to ground waters?		X	
G. Does or will this facility discharge stormwater associated with industrial activity to surface waters?		X	
H. Is this facility a non-discharging/closed loop recycle system?		X	
I. Is this facility a public water system whose primary purpose is the production of potable water for public consumption and which discharges demineralization concentrate to surface water or groundwater?		X	

III - NAME OF FACILITY: (80 characters and spaces)

Sun Lakes Estates WWTP

IV - FACILITY CONTACT: (A. 30 characters and spaces)

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Thad Terry Owner	321-639-1124

V - FACILITY MAILING ADDRESS: (A. 30 characters and spaces; B. 25 characters and spaces)

A. Street or P.O. Box: 5600 US Hwy 1N		
B. City or Town: Sharps	State: FL	Zip Code:32927

VI - FACILITY LOCATION: (A. 30 characters and spaces; B. 24 characters and spaces; C. 3 spaces (if known); D. 25 characters and spaces; E. 2 spaces; F. 9 spaces)

A. Street, Route or Other Specific Identifier: 616 Emerald Lake Drive		
B. County Name: Brevard	C. County Code (if known):30	
D. City or Town: Cocoa	E. State: FL	F. Zip Code:32927

VII - SIC CODES: (4-digit, in order of priority)

1. Code #:4952	(Specify) Domestic Waste	2. Code #:	(Specify)
3. Code #:	(Specify)	4. Code #:	(Specify)

VIII - OPERATOR INFORMATION: (A. 40 characters and spaces; B. 1 character; C. 1 character (if other, specify); D. 12 characters; E. 30 characters and spaces; F. 25 characters and spaces; G. 2 characters; H. 9 characters)

A. Name: Jerry Padrick		B. Is the name in VIII A. the owner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P	(specify) Private	D. Phone No.: 321-639-1273
E. Street or P. O. Box: 4220 Temple St			
F. City or Town: Cocoa		G. State: FL	H. Zip Code: 32926

IX - INDIAN LAND:

A. Is the facility located on Indian lands?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---	---

X - EXISTING ENVIRONMENTAL PERMITS:

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)
N/A	N/A	FDEP FLA010353	


XI - MAP: Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII - NATURE OF BUSINESS (provide a brief description)

This treatment facility provides domestic wastewater treatment to the mobile home community and residents of Sun Lake Estates.

XIII - CERTIFICATION (see instructions)

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

<p style="text-align: center;">Thad Terry</p> <hr style="border: 0; border-top: 1px solid black; margin: 0;"/> <p style="text-align: center;">A. Name (type or print)</p>	 <hr style="border: 0; border-top: 1px solid black; margin: 0;"/> <p style="text-align: center;">B. Signature</p>
<p style="text-align: center;">Owner</p> <hr style="border: 0; border-top: 1px solid black; margin: 0;"/> <p style="text-align: center;">Official Title (type or print)</p>	<p style="text-align: center;">2-19-2020</p> <hr style="border: 0; border-top: 1px solid black; margin: 0;"/> <p style="text-align: center;">C. Date Signed</p>

UPDATED CAPACITY ANALYSIS
REPORT

FOR

SUN LAKES ESTATES

WASTEWATER TREATMENT PLANT

BREVARD COUNTY, FLORIDA

Facility ID: FLA010353

Permit No.: FLA010353 Expires: 10/27/2020

Prepared For:

SUN LAKES HOMEOWNERS ASSOCIATION
5600 US HWY 1 N
SHARPS, FLORIDA, 32927

FEBRUARY 19, 2020

Prepared By:

MCDONALD GROUP INTERNATIONAL, INC.

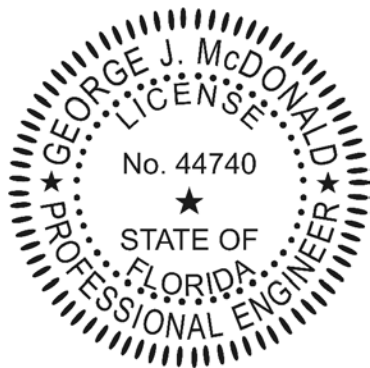
9030 S. BRITTANY PATH
INVERNESS, FLORIDA 34452
C.A.-7580



CAPACITY ANALYSIS
REPORT
FOR
Sun Lakes Estates
Wastewater Treatment Plant
Brevard County, Florida

The information contained in this report was prepared in accordance with sound engineering principals, and the recommendations contained within have been discussed with the permittee

George J. McDonald, P.E.,
FL PROFESSIONAL ENGINEER NO. 44740
McDonald Group International, Inc. CA-0007580
9030 S. Brittany Path, Inverness, Florida 34452
(352)-637-1652



This report has been electronically signed and sealed by George J. McDonald PE on 2/22/20 using a Digital Signature. Printed copies of the document are not considered signed and sealed and all signatures must be verified on any electronic copies .

CAPACITY ANALYSIS

REPORT


FOR

Sun Lakes Estates

Wastewater Treatment Plant

Brevard County, Florida

I am fully aware and intend to comply with the recommendations
and schedules included in this report

 **Date:** *2-19-2020*

Thad Terry
Sun Lakes Homeowners Association
5600 US Hwy 1N
Sharps, Florida, 32927
321-639-1124

**CAPACITY ANALYSIS REPORT
FOR Sun Lakes Estates
WASTEWATER TREATMENT PLANT**

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CAPACITY ANALYSIS REPORT

1.0. General

Florida Department of Environmental Protection (FDEP) Rule 62-600.405(4) F.A.C. requires that a capacity analysis report be submitted to the Department with a permit application to renew a Wastewater facility permit.

This capacity analysis is submitted to the FDEP by McDonald Group International, George J. McDonald, P.E., consultant engineer for Sun Lakes Homeowners Association, the owner and operator of the Sun Lakes Estates Wastewater Treatment Plant located in Brevard County, Florida in order to comply with Rule 62-600.405, F.A.C. The last capacity analysis report is believed to have been performed during the last permit renewal.

The facility is located at 616 Emerald Lake Drive, in Sharps, Brevard County Florida. A location map and USGS quad map are provided in Figures 1.1 and 1.2, respectively.

1.1 Authorization and Purpose

Sun Lakes Homeowners Association has retained George J. McDonald, P.E. to study their plant's historical flows, service area characteristics, and issues which effect changes in future capacity requirements of their wastewater treatment plant in order to provide a capacity analysis report (CAR) in support of the wastewater plant permit application.

1.2_ Related Reports and Documents

Accompanying this report is an Operations and Maintenance Performance Report, as well as FDEP Forms 1 and 2A for a domestic wastewater treatment plant. Additional information is contained in the accompanying reports and documents.

1.3 General Service Area Description

The treatment facility serves Sun Lakes Estates. This area consists of approximately of about 206 mobile home units at present.

1.4 Facility Information

This Wastewater Treatment Plant is presently permitted for the flow capacity and discharge limitation standards in the following table:

**Table 1.4 WWTF Effluent Limitation Standards
Sun Lakes Estates**

1. Maximum flow capacity -0.135 MGD (permitted for 0.099 MGD) (plant)
- 0.206 MGD (effluent disposal)
2. BOD and TSS maximum concentrations -
20 mg/L annual average
30 mg/L monthly average
45 mg/L weekly average
60 mg/L any one sample
3. pH range - 6.00 to 8.50
4. Fecal Coliform -
200 #/100 annual average
800 #/100 maximum
5. Minimum Cl₂ conc. - 0.5 mg/L
6. Nitrate 12 mg/L max

The Sun Lakes Estates Wastewater Treatment Plant has been permitted for operation since 1984.

Process

It is an activated sludge waste treatment facility operating in the extended aeration mode. The treatment process comprises the following: flow equalization, aeration, final settling; sludge digestion, disinfection. A process plan follows the USGS map in the following pages as figure 1.3.

Modifications

The facility has not been reported to have been modified in the last 5 years.

Notices of violation

According to the Owner and the operator, no recent notices of violation have been received or consent orders entered into.

1.5 Scope of Report

Although containing many elements of a regular capacity analysis report, the depth and scope of this report is meant to equal or exceed the requirements for an "abbreviated" capacity analysis report.

1.6 Information Sources

This report is prepared based on information supplied by the permittee, information that may be found in FDEP public databases, the current permit, and information supplied by the operator. The report relies on the accuracy of this information for all analysis and opinions.

Figure 1.1 Street Location Map

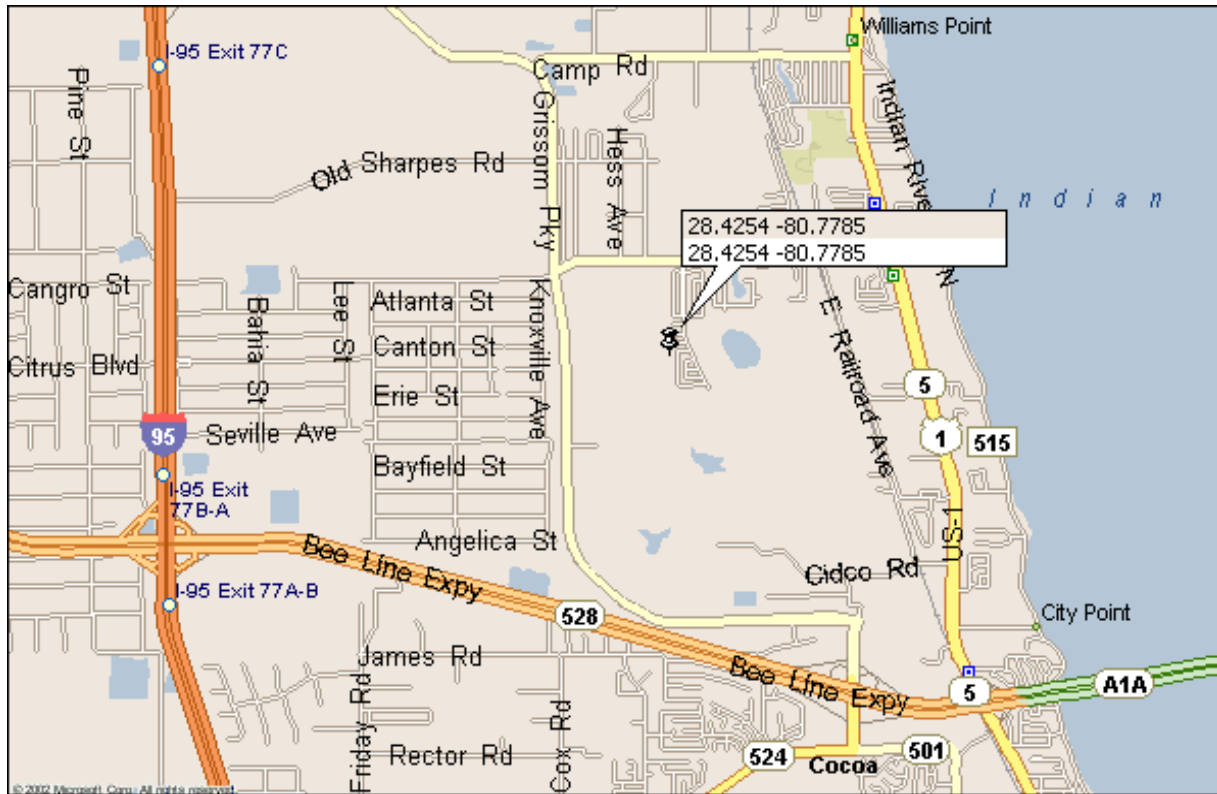
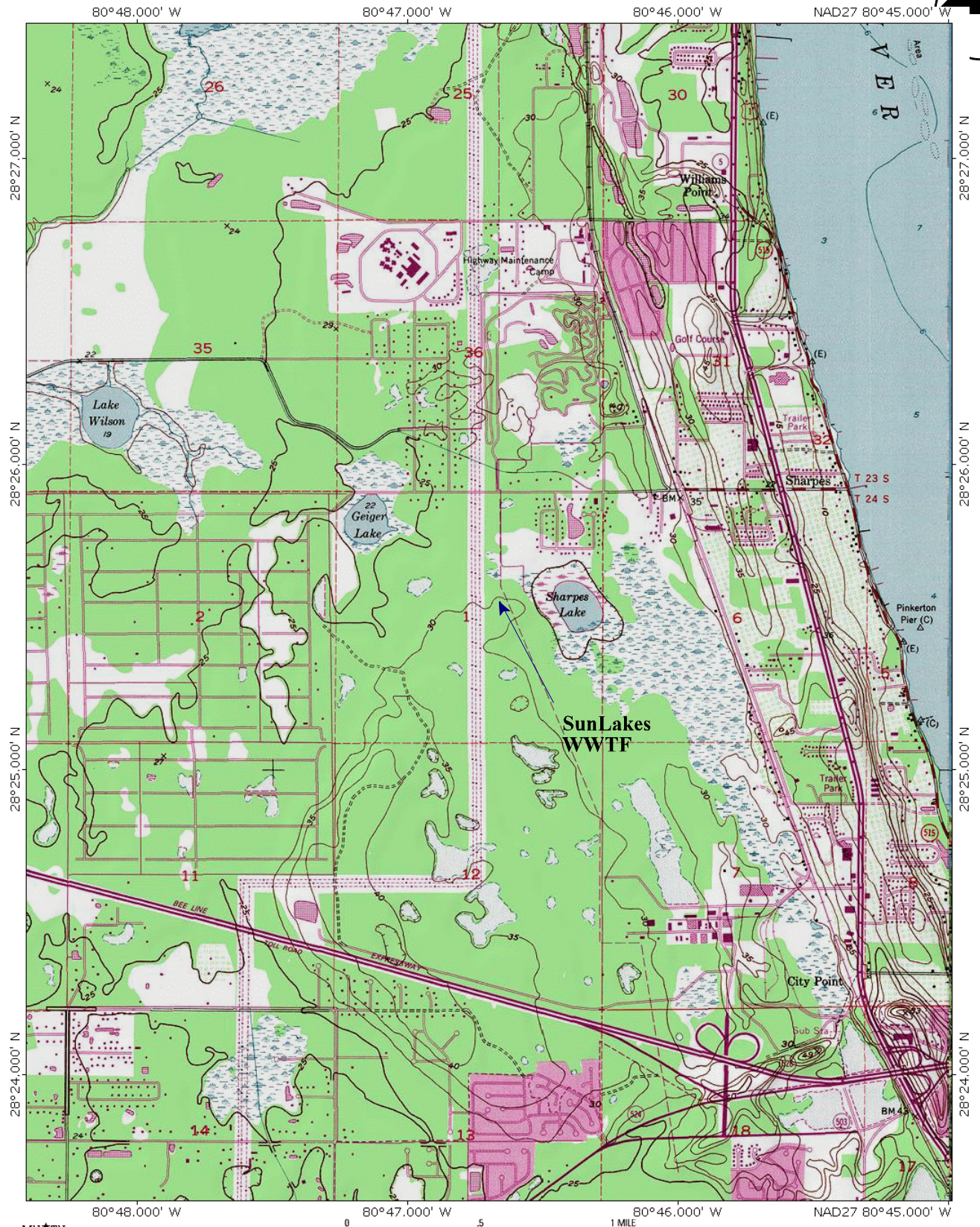
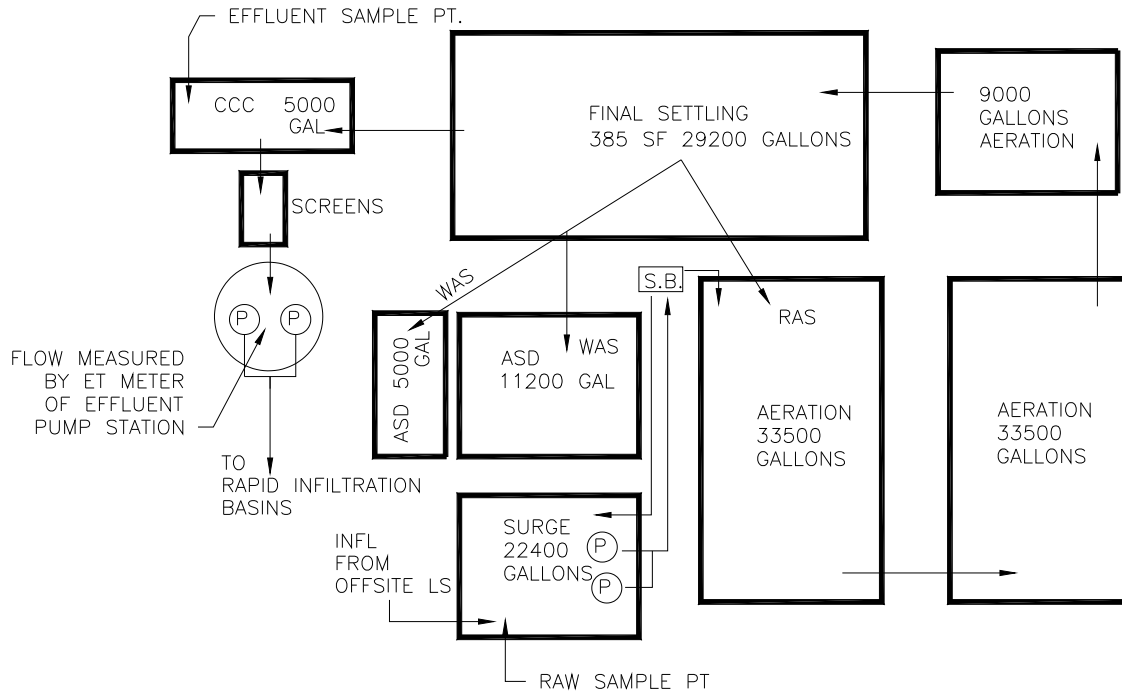


Figure 1.2 USGS Map



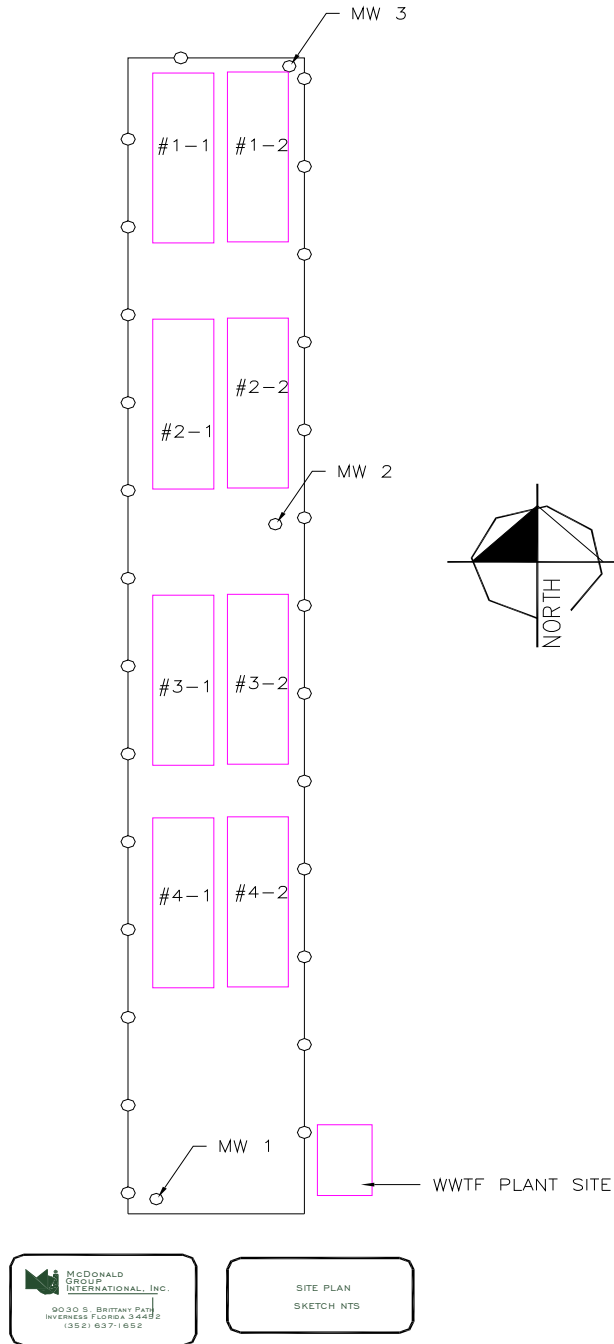
Map created with TOPOI® ©2001 National Geographic (www.nationalgeographic.com/topo)

Figure 1.3 Process Plan



PROCESS VOLUMES SHOWN BASED ON APPROXIMATE FIELD MEASURES AND INFORMATION FROM FACTORY CATALOGUE

Figure 1.4 Site Plan



THIS SITE PLAN SKETCH BASED ON SITE
OBSERVATIONS, AERIAL IMAGES, AND INFORMATION
PROVIDED BY OWNER AND OPERATOR.
THIS IS NOT A SURVEY

2.0 Existing Conditions and Permitted Capacities

The Sun Lakes Estates Wastewater Treatment Plant has been permitted for operation since January of 1984. It is an activated sludge waste treatment facility operating in the extended aeration mode. The current operating permit, FLA010353 is due to expire October 27, 2020.

The Wastewater Treatment Plant is presently permitted to discharge effluent meeting the Secondary Treatment Technology Based Effluent Standards listed in the table in section 1.4.

2.1 Influent Strength

The major parameters used to evaluate influent strength are influent BOD, TSS, TKN. Of these only BOD and TSS are often required to be tested by permit.

Based on available test data, the influent strength is estimated to be as follows:

Table 2.1 Influent Strength

<u>Parameter</u>	<u>Characterization</u>
CBOD ₅	285 mg/L
TSS	253 mg/L

This is considered to be a normal strength domestic wastewater.

2.2 Updated Flow Information

In this section, data and analysis is presented regarding current plant flows

2.2.1 Flow Calibration

Flows to this treatment plant are measured by elapsed time meters, measuring the running time of the effluent pumps.

2.2.2 Plant Flow Characteristics

Data from Discharge Monitoring Reports (DMRs) were studied to determine the present plant flow characteristics. Table 2.2 summarizes the data taken from the DMRs for the period reviewed.

Figure 2.2 graphically illustrates the month average and rolling three month average flow for the period reviewed:

Figure 2.2 Flow Chart

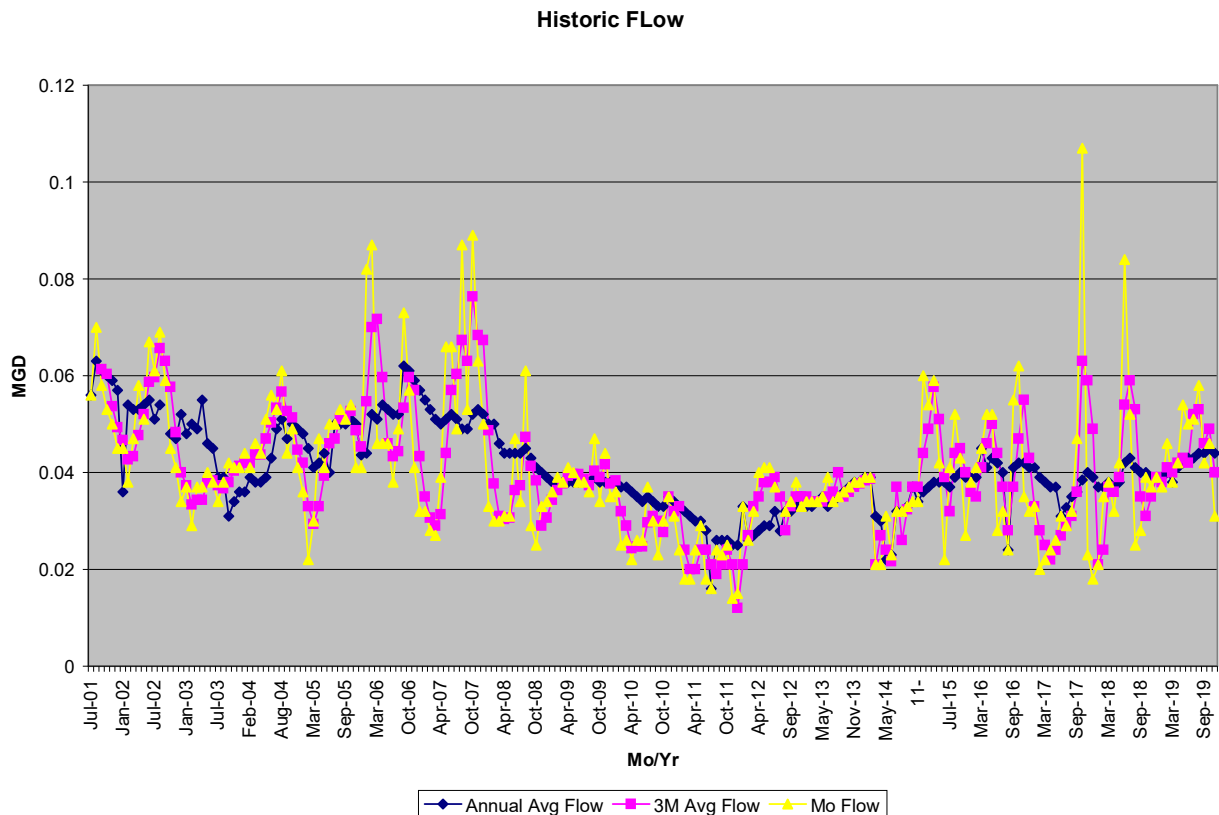


Table 2.2 Flow and Performance History

	Flow An	Flow	Flow Mo	BOD An	BOD Mo	BOD	Tss An	TSS Mo	TSS	pH Min	pH	Fecal	Fecal	TRC	Nitrate	TN	TP	BOD	TSS
	Avg	3MADF	Avg	Avg	Avg	Max	Avg	Avg	Max		Max	An	Max					In	In
Jul-01	0.056		0.056	19.6	24.6		23.5	23.5		6.8	7	200	200		0.02			146	234
Aug-01	0.063		0.07	23.8	28.1		33.2	21.4		7.4	8.4	99	2	0	0.02			150	347
Sep-01	0.061	0.061	0.058	58.2	63.5		26.9	14.4		6.6	8.4	100	103	0.5	0.022			138	67
Oct-01	0.06	0.060	0.053	54	3.75		25.4	8		7.4	8.2	93.1	11	0.6	0.03			81	83.7
Nov-01	0.059	0.054	0.05	50	3.1		23.8	5		7.5	8.3	105.7	258	0.5	0.08			163	83
Dec-01	0.057	0.049	0.045	46.4	4.3		22.4	6.5		7.3	8	98.2	9	0.6	0.89			175	102
Jan-02	0.036	0.047	0.045	40.8	2		20.6	12.2		7.1	8	97	90	0.6	1.152			100	102
Feb-02	0.054	0.043	0.038	38	4.7	5.8	19.6	8	12.3	7.5	8.4	89.6	2	0.5	0.99			157	146
Mar-02	0.053	0.043	0.047	35.8	9.7	17.9	23	23.2	41.5	7.5	8.5	87.7	65	0.6	1.15			166	285
Apr-02	0.053	0.048	0.058	33.5	3.5		25.9	61.7		7	8.3	82.8	25	0.6	0.45			272	177
May-02	0.054	0.052	0.051	25.8			48.5	22.9		7	7.2	507.3	502	0.5	0.02			386	509
Jun-02	0.055	0.059	0.067	13.1	3.7	6	17.5	9.25	14	6.7	7.5		17	0.5	0.058			146	367
Jul-02	0.051	0.060	0.061	11.3	2.5	2.6	15.7	2.5	2.6	6.9	7.8	48.2	2.5	0.5	0.339			167	504
Aug-02	0.054	0.066	0.069	9	7.85	7.85	15.19	7.85	9.7	7.2	7.6	56.5	48.5	0.5	0.189			119	197
Sep-02		0.063	0.059		2.6	2.6		7.5	10	7.1	7.4	99.08	653	0.5	0.238			87.5	102
Oct-02	0.048	0.058	0.045	4.55	3.95	4.2	14.41	5.75	6	7	7.4	98.2	6	0.5	0.18			125.5	101.3
Nov-02	0.047	0.048	0.041	4.53	4.35	5.2	14.5	16.75	26.5	7.2	7.6	6	9	0.5	1.89			89.5	525
Dec-02	0.052	0.040	0.034	4.45	2.55	5	14.4	4.25	5	7.3	7.8	77.3	6.5	0.5	1.34			174	181
Jan-03	0.048	0.037	0.037	4.83	5.9	8.3	14.06	5	8	6.5	7.6	69.9	1	0.5	0.092			319	313
Feb-03	0.05	0.033	0.029	4.33	2.9	4.3	13.9	8.5	13	7.2	7.8	71.4	1	0.5	0.376			135	136
Mar-03	0.049	0.034	0.037	4.43	5.65	9.8	14.4	20.5	27	7.4	7.6	68.7	37.5	0.5	1.4			194	86.7
Apr-03	0.055	0.034	0.037	4.51	4.8	4.9	14.8	20.5	29	7.4	7.6	66.1	13	0.5	0.116			256	342
May-03	0.046	0.038	0.04	4.4	6.8	6.8	10.8	14.5	14.5	7.4	7.8	66.3	2	0.5	0.074			184	83.3
Jun-03	0.045	0.038	0.038	4.4	4.7	7.9	11.7	23.2	31	7.5	7.8	65.2	6.5	0.5	0.063			299	374
Jul-03	0.039	0.037	0.034							7.4	7.8				1.8				
Aug-03	0.039	0.037	0.038							7.4	7.6				0.5				
Sep-03	0.031	0.038	0.042	4.6	6.6	6.6	16.4	36	36	7.5	7.8	61	1	0.5	0.116			133	212
Oct-03	0.034	0.040	0.041	4.8	7.4	9.6	15.8	9.25	16	7.5	7.8	56.3	1	0.9	0.721			143	1545
Nov-03	0.036	0.041	0.041	4.7	4.5	4.5	16.9	30.2	50	7	7.4	50.4	2	0.6	0.092			223	189
Dec-03	0.036	0.042	0.044	4.8	5.6	8	15.2	8.25	9	7.6	7.8	51.9	1	2.2				266	467
Feb-04	0.039	0.042	0.041	6	7.1	8	14.7	6.5	7	7.1	7.8	4.96	4	0.5	0.067			217.5	223
Mar-04	0.038	0.044	0.046	6.1	8.1	16.3	14	5.7	8.5	7.4	7.9	4.65	1	0.5	0.144			282	194
Apr-04	0.038	0.044	0.044	5.9	4	4		26.5	26.5	7.8	7.2	7.98	48	2	0.005			389	218

	Flow An Avg	Flow 3MADF	Flow Mo Avg	BOD An Avg	BOD Mo Avg	BOD Max	Tss An Avg	TSS Mo Avg	TSS Max	pH Min	pH Max	Fecal An	Fecal Max	TRC	Nitrate	TN	TP	BOD In	TSS In
May-04	0.039	0.047	0.051	5.7	3.35	5.2	13.3	5.5	7.5	6.8	7.5	7.3	1	0.8	10.4			209	372
Jun-04	0.043	0.050	0.056	5.9	8.2	9.7	13.3	14.4	18.8	7.5	7.8	7.4	9.5	0.5	0.056			172	211.5
Jul-04	0.049	0.053	0.053	6	7.35	13.1	13.1	10.65	14	7.5	7.8	8.05	17	0.5	0.049			186.5	198.5
Aug-04	0.051	0.057	0.061	6.73	10.9	12	15.23	11.1	14	7.5	7.8	62.7	667	0.6	0.025			185	285
Sep-04	0.047	0.053	0.044	6.33	2	2	12.6	5.2	8.4	7.3	7.6	63.7	12.5	0.5	0.54			92.5	109
Oct-04	0.05	0.051	0.049	5.99	2	2	12.1	6.3	6.6	7.6	7.9	59.3	7.5	0.5	0.045			150	240
Nov-04	0.049	0.045	0.041	5.6	2	2	11.4	3.9	4.4	7.5	7.7	54.8	1	1	0.181			150	125
Dec-04	0.048	0.042	0.036	5.3	2	2	11.3	11	12	7.4	7.9	50.6	1	0.5	0.663			240	215
Jan-05	0.045	0.033	0.022	4.8	9.6	17	3.98	9.6	17	7.3	7.8	1	1	0.6	0.0215			150	82.9
Mar-05	0.041	0.029	0.03	4.77	2.8	3.3	9.2	8.1	10.8	7.2	7.6	10.5	54.5	0.5	0.76			146	156
Apr-05	0.042	0.033	0.047	4.71	4.1	4.4	8.8	8.4	16.8	6.1	7.8	9.76	1	0.5	0.95			190	220
May-05	0.044	0.039	0.041	4.28	4.1	4.1	8.49	3	3	7.1	7.5	6.02	1	0.5	0.032			225	195
Jun-05	0.04	0.046	0.05	5.16	12.5	15	8.61	9.1	11	7.2	7.5	8.56	1	0.5	0.058			205	150
Jul-05	0.05	0.047	0.05	5.13	4.85	7.7	8.34	5.2	8.4	7.1	7.5	7.97	1	0.5	0.0635			200	150
Aug-05	0.05	0.051	0.053	5.08	4.45	6.9	8.05	4.6	7.2	7.1	7.5	1	5	0.8	0.425			140	117
Sep-05	0.05	0.051	0.051	7.15	32	32	7.58	2	2	7.3	7.6	1	1	0.5	1.3			240	410
Oct-05	0.051	0.053	0.054	6.75	2	2	7.25	3.3	6.4	7.2	7.4	1.19	3.5	0.5	6.3			110	112
Dec-05	0.044	0.045	0.041	7	2	2	5	2	2	7	7.3	5.1	1	0.8	27			175	130
Jan-06	0.044	0.055	0.082	6.61	2.05	2.1	5.1	6.5	11	7.3	7.6	4.78	1	0.5	0.035			145	155
Feb-06	0.052	0.070	0.087	6.12	2	2	5.38	6.9	10	7.1	7.4	1.88	13.5	0.5	2.7			155	112
Mar-06	0.051	0.072	0.046	5.8	2	2	5.43	6.1	7	7.1	7.4	12.5	1	0.5	2.88			130	142
Apr-06	0.054	0.060	0.046	5.88	2	2	4.64	1.5	2	7.2	7.3	2.5	1.5	0.5	0.398			110	74
May-06	0.053	0.046	0.046	5.64	2.85	3.3	5.48	15.6	24	7.1	7.4	1.5	2	0.5	0.0835			115	71
Jun-06	0.052	0.043	0.038	5.47	3.55	3.6	5.95	11.7	15	7.2	7.3	1.65	3.5	0.5	0.12			192	85
Jul-06	0.052	0.044	0.049	5.26	2.85	3.3	5.88	5.1	5.2	7.2	7.3	1.6	1	0.5	0.417			120	80
Sep-06	0.062	0.053	0.073	4.83	2	2.1	6.46	11.8	15	7	7.3	1	1	0.5	1.29			91.5	1150
Oct-06	0.061	0.060	0.057	4.61	2.02	2.04	6.23	3.5	3.6	7	7.2	1	1	0.5	2.03			151.5	110.8
Nov-06	0.059	0.057	0.041	4.41	2	2	6.27	6.65	10.3	6.9	7.3	1.1	2.5	0.5	4.76			312	351
Dec-06	0.057	0.043	0.032	4.29	2.85	2.87	6.01	3	3.2	7	7.3	1	1	0.5	1.27			320	467
Jan-07	0.055	0.035	0.032	4.27	4.04	6.09	6.33	10.2	14	6.8	7.2	1	1	0.5	0.587			242	251
Feb-07	0.053	0.031	0.028	4.17	2.98	3.18	7.41	20.4	30	7	7.2	1	1	0.7	0.0814			256	203
Mar-07	0.051	0.029	0.027	4.33	6.37	9.99	7.76	12.07	18.4	7	7.3	1	1	0.5	0.01			237	158
May-07	0.051	0.044	0.066	4.2	2.36	2.72	7.24	4.2	5.2	7.1	7.4	1	1	0.5	0.035			270	299
Jun-07	0.052	0.057	0.066	4.47	3.51	3.51	7.27	7.75	10	7	7.5	50	225	0.5	0.3145			221	256
Jul-07	0.051	0.060	0.049	4.28	2	2	7.03	4.25	4.25	7.1	7.4	1	1	0.5	1.23			266	219

	Flow An Avg	Flow 3MADF	Flow Mo Avg	BOD An Avg	BOD Mo Avg	BOD Max	Tss An Avg	TSS Mo Avg	TSS Max	pH Min	pH Max	Fecal An	Fecal Max	TRC	Nitrate	TN	TP	BOD In	TSS In
Aug-07	0.049	0.067	0.087	4.1	2	2	7.11	8.09	9.67	7.1	7.5	1	1	0.5	0.42			401	299
Sep-07	0.049	0.063	0.053	3.93	2	2	6.93	4.88	5.33	7.1	7.4	1	1	0.5	0.01			215	228
Oct-07	0.052	0.076	0.089	3.79	2.19	2.38	4.81	4	6.25	7.1	7.4	1	1	0.5	0.562			242	327
Nov-07	0.053	0.068	0.063	3.65	2	2	4.7	3.4	4.8	7.2	7.4	1	1	0.5	1.695			325	420
Dec-07	0.052	0.067	0.05	3.52	2.05	2.11	4.17	3.87	4	7.2	7.6	1	1.5	0.5	0.0313			326	375
Jan-08	0.05	0.049	0.033	3.49	3.18	4.37	4.18	5.62	6.5	7.2	7.8	1	4.5	0.5	0.463			6.37	3.14
Feb-08	0.05	0.038	0.03	3.37	2	2	4.79	11	12	7.3	7.5	1	1	0.5	0.0235			242	202
Mar-08	0.046	0.031	0.03	3.26	2	2	4.98	7.72	7.75	7.2	7.5	1	1	0.5	0.0225			372	264
Apr-08	0.044	0.030	0.031	3.16	2	2	5.52	12.1	12.3	7.3	7.5	1	1	0.5	0.153			251	313
May-08	0.044	0.031	0.031	3.23	2.95	5.9	5.94	17.5	20.8	7.2	7.5	1	1	0.5	0.057			217	228
Jun-08	0.044	0.036	0.047	3.15	2.2	2.41	6.14	8.55	12.3	7.2	7.5	1	1	0.5	0.01			191	246
Jul-08	0.044	0.037	0.034	3.1	2.25	2.5	8.41	5.9	6.8	7.2	7.5	1	1.5	0.8	0.054			175	70
Aug-08	0.045	0.047	0.061	3.06	2.7	3.4	8.16	5.25	5.5	7	7.4	1.1	3.5	0.8	0.296			175	180
Sep-08	0.043	0.041	0.029	3.08	3.6	3.6	7.9	5	5	7	7.5	1	2	0.5	0.057			250	630
Oct-08	0.041	0.038	0.025	3.07	3.05	6.1	7.67	5	5	7.2	7.4	1.1	2.5	0.5	0.0415			215	185
Nov-08	0.04	0.029	0.033	3.35	6.75	10.1	7.52	5.75	6.5	7.1	7.5	1	2	0.8	5.036			235	284
Dec-08	0.039	0.031	0.034	3.56	6.2	7.1	7.66	9.4	11	7.2	7.6	1	1	0.5	0.023			220	845
Jan-09	0.038	0.034	0.036	3.74	5.95	6.4	7.57	6.5	7	7.4	7.6	3.9	50	0.5	0.116			295	330
Feb-09	0.038	0.036	0.039	3.88	5.6	5.7	7.49	6.6	6.7	7.3	7.6	3.6	1	0.5	0.375			270	132.5
Mar-09	0.038	0.038	0.038	4.27	9.05	9.6	7.65	9.65	10	7.2	7.5	3.4	1.5	0.5	0.0915			260	255
Apr-09	0.038	0.039	0.041	4.75	10	11	9.86	12.5	12.5	7.3	7.5	2	2	0.5	0.0765			335	240
May-09	0.038	0.040	0.04	4.69	4	6	9.92	10.75	16	7.3	7.4	1	2	0.5	0.063			195	315
Jun-09	0.038	0.040	0.038	4.76	5.65	6.9	9.84	8.9	9.3	7.2	7.4	1	1.5	1	0.08			265	215
Jul-09	0.038	0.039	0.038	4.92	6.85	6.6	9.85	10	15	7.2	7.4	5	60.5	1	0.089			270	215
Aug-09	0.038	0.037	0.036	4.71	2.25	2.3	9.49	5.25	5.5	7.2	7.4	2	2	0.8	0.226			185	230
Sep-09	0.039	0.040	0.047	4.58	3.05	4.1	9.18	5.5	6	7.2	7.3	2	2	1	0.425			258	229
Oct-09	0.038	0.039	0.034	4.38	2.05	2.1	9.47	13	8	7.2	7.4	2	2.5	0.5	0.214			174	195.5
Nov-09	0.038	0.042	0.044	4.3	3.35	4.1	9.16	5.5	6	7.2	7.4	1	1	0.8	2.03			154	145
Dec-09	0.038	0.038	0.035	4.17	2.65	3.0U	8.84	5.0U	5.0U	7.2	7.4	1	1.0U	0.8	0.585			225	165
Jan-10	0.038	0.038	0.036	4.27	5.5	7.5	8.54	5.0U	5.0U	7.2	7.3	1.0U	1.0U	1.5	2.35			245	250
Feb-10	0.037	0.032	0.025	4.18	3.15	3.6	9.49	21	32	7.2	7.3	1.0U	1.0U	0.5	0.18			274.5	205
Mar-10	0.037	0.029	0.026	4.28	5.6	6.9	9.25	6.45	6.9	7.1	7.3	1	1	0.5	0.225			330	254
Apr-10	0.036	0.024	0.022	4.28	4.4	5.8	9.24	6.25	7.5	7.2	7.4	1	no data	0.5	0.165			300	2106
May-10	0.035	0.025	0.026	4.16	2.8	2.8	9.37	11	12	7.3	7.5	1	no data	0.5	0.31			287	395
Jun-10	0.034	0.025	0.026	4.02	2.4	2.4	9.03	5	5	7.1	7.3	1	no data	0.5	18			292	450

	Flow An Avg	Flow 3MADF	Flow Mo Avg	BOD An Avg	BOD Mo Avg	BOD Max	Tss An Avg	TSS Mo Avg	TSS Max	pH Min	pH Max	Fecal An	Fecal Max	TRC	Nitrate	TN	TP	BOD In	TSS In
Jul-13	0.034	0.036	0.034	2.77	2	2	5.51	7.6	7.6	7.1	7.2	1	1	1		36	7.6		
Aug-13	0.035	0.040	0.035	2.71	2	2	5.3	2.8	2.8	7.1	7.2	1	1	1		17	5.5		
Sep-13	0.036	0.035	0.036	2.65	2	2	5.41	6.8	6.8	7.2	7.2	1	1	1	15	16	4		
Oct-13	0.037	0.036	0.037	2.6	2	2	5.27	3.6	3.6	7.1	7.2	1	1	0.5	30	31	4		
Nov-13	0.038	0.037	0.038	2.55	2	2	5.35	6.4	6.4	7.1	7.2	1	1	0.5	9.1	29	DNP		
Dec-13	0.038	0.038	0.038	2.81	6	6	5.52	7.6	7.6	7	7.2	1	1	0.5	0.056	25	2.2		
Jan-14	0.039	0.038	0.039	2.74	2	2	5.46	4.8	4.8	7	7.2	1	1	0.5	0.019	14	2.4		
Feb-14	0.039	0.039	0.039	2.68	2	2	5.88	11	11	7.1	7.1	1	1	1	0.36	34	4.3		
Mar-14	0.031	0.021	0.021	2.62	2	2	5.95	6.8	6.8	7.1	7.2	1	1	0.5	0.072	38	5.1		
Apr-14	0.03	0.027	0.021	2.57	2	2	6.2	9.2	9.2	7.1	7.2	1	1	0.5	0.97	42	5.3		
May-14	0.022	0.024	0.031	2.52	2	2	2.52	5.2	5.2	7.1	7.1	1	1	0.5	5.8	32	5.5		
Jun-14	0.023	0.022	0.023	2.45	2	2	7.6	26	26	7	7.1	1	1	0.5	0.025	43	4.5		
Jul-14	0.032	0.037	0.032	2.48	2	2	16.9	22	22	7.1	7.1	1	1	0.5	0.077	38	4.5		
Aug-14	0.032	0.026	0.032	2.44	2	2	15.8	5	5	7.1	7.4	1	1	1	0.032	32	4.2		
Sep-14	0.033	0.032	0.033	2.4	2	2	15.1	5.6	5.6	7	7.2	1	1	0.5	19	20	2.8		
Oct-14	0.037	0.037	0.034	2.37	2	2	14.5	8.4	8.4	7.1	7.1	1	1	0.8	0.065	18	5.8		
11-2014	0.034	0.037	0.034	2.34	2	2	13.7	5	5	7.1	7.3	1	1	0.5	2.9	12	3.6		
Dec-14	0.036	0.044	0.06	2.31	2	2	13.04	5.2	5.2	7.1	7.5	1	1	0.5	0.18	16	1.1		
Jan-15	0.037	0.049	0.054	2.28	2	2	12.42	5	5	7.3	7.5	1	1	0.8		26	0.76		
Feb-15	0.038	0.058	0.059	2.25	2	2	11.86	5.2	5.2	7.2	7.3	1	1	0.5		9.5	0.79		
Mar-15	0.038	0.051	0.042	2.23	2	2	11.32	4.9	4.9	7.2	7.3	1	1	0.5		33	7.4		
May-15	0.038	0.039	0.022	2.19	2	2	10.95	6.9	6.9	7.2	7.2	1	1	0.5	0	30	0		
Jul-15	0.037	0.032	0.041	2.16	2	2	9.92	5.9	5.9	7.2	7.4	1	1	0.8	0	37	0		
Oct-15	0.039	0.044	0.052	2.11	2	2	8.92	6.1	6.1	7.1	7.2	1	1	0.5	0	8	0		
Nov-15	0.04	0.045	0.043	2.1	2	2	9.3	14	14	7	7.2	1	1	0.8	0	43	0		
Dec-15	0.039	0.040	0.027	2.09	2	2	8.81	3	3	7	7.1	1	1	0.5	1.9	3.2	5.1		
Jan-16	0.039	0.036	0.038	2.08	2	2	8.69	7.3	7.3	7.1	7.2	1	1	0.5	5.6	10	4.8		
Feb-16	0.039	0.035	0.041	2.07	2	2	8.29	3.5	3.5	7.1	7.2	1	1	0.8	0.031	10	2.2		
Mar-16	0.045	0.041	0.045	2.06	2	2	7.91	3.4	3.4	7.1	7.1	1	1	0.5	0.1	13	1.3		
Apr-16	0.041	0.046	0.052	2.05	2	2	7.4	1.4	1.4	7	7.1	1	1	0.8	0.01	11	4.8		
May-16	0.043	0.050	0.052	2.04	2	2	7.15	4.2	4.2	7	7	1	1	0.5	1.3	3.9	4.2		
Jun-16	0.042	0.044	0.028	2.03	2	2	7.29	9	9	7	7.1	1	1	0.5	1.5	9.1	11		
Jul-16	0.04	0.037	0.032	2.02	2	2	9.07	10	10	7	7.1	1	1	0.5	0.97	9.1	1.3		
Aug-16	0.024	0.028	0.024	2.01	2	2	8.59	2.9	2.9	7.1	7.1	1	1	0.5	8.6	16	6.1		
Sep-16	0.041	0.037	0.055	2	2	2	8.28	4.6	4.6	7.1	7.1	1	1	0.5	0.012	2.7	0.41		

	Flow An Avg	Flow 3MADF	Flow Mo Avg	BOD An Avg	BOD Mo Avg	BOD Max	Tss An Avg	TSS Mo Avg	TSS Max	pH Min	pH Max	Fecal An	Fecal Max	TRC	Nitrate	TN	TP	BOD In	TSS In
Oct-16	0.042	0.047	0.062	2	2	2	8.11	6.1	6.1	7.1	7.2	1	1	0.5	0.49	1.4	1.2		
Nov-16	0.042	0.055	0.035	2	2	2	7.74	3.4	3.4	7.1	7.1	1	1	0.5	0.22	3.4	3.5		
Dec-16	0.041	0.043	0.032	2	2	2	7.39	3.2	3.2	7	7.1	1	2	0.5	0.52	1.9	2.4	440	310
Jan-17	0.041	0.033	0.033	2	2	2	6.99	2.3	2.3	7	7.1	1	1	0.5	0.094	2.9	0.64		
Feb-17	0.039	0.028	0.02	2	2	2	7.16	4.5	4.5	7	7.1	1	1	0.5	0.026	8.9	4.4		
Mar-17	0.038	0.025	0.022	2	2	2	6.77	2.2	2.2	7	7.1	1	1	0.5	0.018	4.9	1.1		
Apr-17	0.037	0.022	0.024	2	2	2	6.44	2.6	2.6	7	7.1	1	1	0.5	0.023	6.7	1.5		
May-17	0.037	0.024	0.026	2	2	2	6.04	1.3	1.3	7	7.2	1	1	0.5	0.029	4.1	1.5		
Jun-17	0.031	0.027	0.031	2	2	2	5.79	2.8	2.8	7	7.1	1	1	0.8	0.35	11	8.6		
Jul-17	0.03275	0.029	0.029	5.07	42	42	6.49	15	15	7.1	7.3	1	OTH	0.9	26	26	1.3		
Aug-17	0.035	0.031	0.032	4.83	2	2	6.54	7.2	7.2	7.1	7.3	1	3	0.5	9.7	10	3.7		
Sep-17	0.036	0.036	0.047	4.61	2	2	6.19	2.1	2.1	7.1	7.3	1	1	0.5	0.88	2.6	9.8		
Oct-17	0.04	0.063	0.107	4.4	2	2	5.83	1.6	1.6	7.1	7.2	2	2.5	0.5	0.54	1.8	3.3		
Nov-17	0.04	0.059	0.023	4.21	2	2	5.48	1.3	1.3	7.2	7.2	3	17	1	0.22	1.5	4.9		
Dec-17	0.039	0.049	0.018	4.04	2	2	5.15	1.3	1.3	7	7.1	4	21	0.5	0.72	1.9	4.7	320	250
Jan-18	0.037	0.021	0.021	3.88	2	2	4.89	1.8	1.8	7	7.2	5	13	0.8	1.8	3.8	5.2		
Feb-18	0.037	0.024	0.035	3.73	2	2	4.61	1.3	1.3	7.1	7.2	7	38	0.5	0.021	3.1	4.8		
Mar-18	0.038	0.037	0.038	3.59	2	2	4.41	2.5	2.5	7.1	7.2	6	1	0.5	0.05	6.2	4.3		
Apr-18	0.037	0.036	0.032	3.46	2	2	4.27	2.7	2.7	7.1	7.1	7	14	0.5	0.95	14	4.2		
May-18	0.038	0.039	0.042	3.34	2	2	4.29	4.6	4.6	7.1	7.4	4	1	1	0.079	40	13		
Jun-18	0.042	0.054	0.084	3.23	2	2	4.42	6.1	6.1	7	7.3	1	6	0.5	16	20	4.7		
Jul-18	0.043	0.059	0.052	3.13	2	2	4.26	2.4	2.4	7.1	7.3	1	1	1	4.5	17	4.5		
Aug-18	0.041	0.053	0.025	3.04	2	2	4.07	2	2	7.1	7.6	1	1	1.1	4.4	4.9	1.8		
Sep-18	0.04	0.035	0.028	2.96	2	2	DNP	DNP	DNP	7.2	7.4	32	380	0.6	0.01	12	1.4		
Oct-18	0.04	0.031	0.039	2.88	2	2	4.01	2.5	2.5	7.2	7.4	2.5	1	0.5	0.59	0.59	0.23		
Nov-18	0.039	0.035	0.037	2.81	2	2	2.42	1.5	1.5	7.1	7.2	1	1	0.8	11	12	1.5		
Dec-18	0.039	0.039	0.039	2.74	2	2	2.34	1.4	1.4	7.1	7.2	1	1	0.8	8.9	9.5	1.4		
Jan-19	0.039	0.038	0.037	2.68	2	2	2.68	6.8	6.8	7	7.1	1	1	0.5	1.9	7.9	0.41		
Feb-19	0.04	0.041	0.046	2.62	2	2	4.24	23	23	7	7.2	1	1	1	3.4	3.5	0.57		
Mar-19	0.038	0.040	0.038	2.57	2	2	4.56	8.5	8.5	7.1	7.3	1	1	0.5	6.6	7.1	1.6		
Apr-19	0.041	0.042	0.042	2.52	2	2	4.85	8.4	8.4	7.1	7.3	1	1	0.5	0.64	6.1	0.38		
May-19	0.042	0.043	0.054	2.48	2	2	4.76	3.8	3.8	7	7.2	1	1	0.5	0.19	0.36	0.52		
Jun-19	0.043	0.042	0.05	2.44	2	2	4.84	5.9	5.9	7	7.2	1	1	0.8	1.1	5.1	0.63		
Jul-19	0.043	0.052	0.051	2.4	2	2	4.62	2	2	7	7.2	1	1	0.5	8.3	9.2	1.3		
Aug-19	0.044	0.053	0.058	2.36	2	2	4.49	3	3	7	7.2	1	1	0.7	6.1	8.9	2		

	Flow An	Flow	Flow Mo	BOD An	BOD Mo	BOD	Tss An	TSS Mo	TSS	pH Min	pH	Fecal	Fecal	TRC	Nitrate	TN	TP	BOD	TSS
	Avg	3MADF	Avg	Avg	Avg	Max	Avg	Avg	Max		Max	An	Max					In	In
Sep-19	0.044	0.046	0.042	2.33	2	2	4.47	4.3	4.3	7	7.1	2	14	0.5	0.98	4.3	0.69		
Oct-19	0.045	0.049	0.046	2.21	2	2	4.43	4	4	7	7.4	1	1	0.5	0.019	3.9	1		
Nov-19	0.044	0.040	0.031	2.19	2	2	4.19	1.4	1.84	7	7.4	1	1	1	0.77	2.8	0.96	96	200

2.2.3 Peak Hour Flows

Peak hour flows were estimated by consideration of the availability of a surge tank and the probable attenuation.

Based on this, the peak hour factor is estimated to be 3.5, attenuated to 1.9 times the average daily flow.

2.3 Effluent Quality

The treated wastewater leaving the plant must meet specific limitations established by the FDEP in the current permit. Table 2.3 shows the current plant performance for the period studied versus the permitted requirements for effluent quality.

**Table 2.3 Effluent Quality Analysis
Sun Lakes Estates**

From November 2016 to November 2019

Parameter	Result	Units	Limit
AADF	0.045	MGD	0.099
M3MADF	0.063	MGD	report
Mo Flow	0.107	MGD	report
BOD An Avg	5.07	mg/L	20
BOD Mo Avg	42	mg/L	30
BOD Max	42	mg/L	60
TSS An Avg	7.74	mg/L	20
TSS Mo Avg	23	mg/L	30
TSS Max	23	mg/L	60
p H Min	7		6
p H Max	7.6		8.5
TRC	0.5	mg/L	0.5
Fecal An Avg	32	#/100 ML	200
Fecal Max	380	#/100 ML	800
Nitrate	26	mg/L	12
Max TN	40	mg/L	report
Max TP	13	mg/L	report

Departures from permitted requirements are considered in section 7 of the accompanying OMPR report.

2.4 Design and Current Loadings

The Sun Lakes Estates Wastewater Treatment Plant is an activated sludge wastewater treatment plant operating in the extended aeration mode.

Figure 1.3 at the beginning of this report provides a graphical illustration of the unit process flow scheme.

Table 2.4 lists each unit process along with the associated loading rate with pertinent dimensional or volumetric data. (Volumetric, areas and dimensional data is estimated from information in the manufacturer’s catalog data, and also by approximate field measure)

Process design data is also incorporated into table 2.4.

Table 2.4 - Process Data

		<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
Influent Characteristics:				
BOD	mg/L	285	285	285
TSS	mg/L	253	253	253
TKN	mg/L	40	40	40
AADF	MGD	0.045	0.099	0.135
Effluent Targets				
BOD	mg/L	<20	<20	<20
TSS	mg/L	<20	<20	<20
Nitrate	mg/L	<12	<12	<12
Disinfection		basic	basic	basic
Surge Tank				
Volume of Tank	Gal	22400	22400	22400
Vs/Q		0.50	0.23	0.17
Inflow Peak Factor		3.5	3.5	3.5
Design - OutFlow Peak		1.9	1.9	1.9
Theoretical Minimum Vs	Gal	7350	16170	22050
Process Design:				
Process Mode		Ext Aer	Ext Aer	Ext Aer
Temp		20	20	20
MLSS mg/L		3970	3954	4118

	<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
SRT days	38	14	10
Yield Coefficient	0.62	0.77	0.82
anoxic	0	0	0
aeration	0.076	0.076	0.076
Total Volume MGAL	0.076	0.076	0.076
V/Q, hrs.	40.5	18.4	13.5
BOD Loading, #/1000 cf	10.5	23.2	31.6
Solids, Oxic, Lbs	2516	2506	2610
Solids, Anoxic, Lbs	0	0	0
MLSS Recirculation, %	0	0	0
RAS Recycle, %	100	100	100
RAS mg/L	7939	7908	8235
WAS, lb/day	66	179.02	260.99
WAS, gpd	1000	2714	3800
Tank Configuration	series	series	series

Aeration System:

Process O2, lb/day	286	573	755
Diffuser Efficiency, %	6	6	6
Air Rqd., SCFM	192	385	507
lb O2/#BOD	2.7	2.4	2.4
Air supply, CF/# BOD	2588	2353	2274

	<i>Diffused</i>	<i>Diffused</i>	<i>Diffused</i>
Type Aeration			
Number of Eductors	3	3	3
Return Rate/Eductor, GPM	10.4	22.9	31.3
Air Eductors	18.5	29.3	36.4
Skimmer Air	6.2	9.8	12.1
Air Rqd. RAS:	25	39	49
Air Rqd. Process:	192	385	507
Air Rqd. Digester	65	65	65
Volume Surge	22400	22400	22400
Air Rqd. Surge	90	90	90
Total Air Rqd.:	372	578	710
HP Required	14.9	23.1	28.4
Hp provided	(2) 20 Hp	(2) 20 Hp	(2) 20 Hp

Final Settling:

No. of Clarifiers	1	1	1
Surface Area, EA., Total	385	385	385
Est Side Depth	10	10	10
Total Depth to Hopper Bottom	16	16	16
Volume	29200	29200	29200
V/Q, hrs.	15.6	7.1	5.2

	<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
Design Peak Factor	1.9	1.9	1.9
Hydraulic Overflow:			
Avg., gpd/sf	117	257	351
Peak, gpd/sf	222	489	666
Solids Loading Rate:			
Avg., lb/d-sf	8	17	24
Peak, lb/d-sf	11	25	35

Disinfection:

Method	Hypochlorination	Hypochlorination	Hypochlorination
No. of CCCs	1	1	1
Volume EA, gallons	5000	5000	5000
Total CCC volume est	5000	5000	5000
Cl2 Residual, mg/L	0.5	0.5	0.5
Cl2 Dose, mg/L	8	8	8
Consumption, lb/day	3.00	6.61	9.01
<i>Hypochlorination System</i>			
Est. Sodium Hypochlorite strength, %	12.5	12.5	12.5
Dose required, mg/L	8	8	8
Available Chlorine, lb/gal	1.04	1.04	1.04
dose, #/gal	0.0000668	0.0000668	0.0000668
Avg dose, #/day	3.00	6.61	9.01
Avg dose, gal/day	2.9	6.3	8.6
Peak Hour Capacity, gal/day	5	12	16
<i>CCC Retention Time</i>			
@ ADF, minutes	160	73	53
@ PHF, minutes	84	38	28
Residual * Detention	42	19	14
Disinfection Level	Basic	Basic	Basic

Aerobic Sludge Digestion:

WAS Flow, gpd	1000	2714	3800
Total Solids, #/day	66.21	179	261
WAS, mg/L	7939	7908	8235
% Volatile	75	75	75
WASv, mg/L	5955	5931	6177
Total VSS, #/d	50	134	196
VSS, #/Digester cf/day	0.02	0.06	0.09
Thick Solids, %	1	1	1
Digester Vol, gal	16200	16200	16200
Initial Est. SRT, days	17	6	4
Temp, Degrees C	20	20	20
VSS Destroyed, %	26.00	15.91	13.14
Avg. Solids, mg/L	7000	7000	7000
Supernatant Solids, mg/L	300	300	300

	<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
WAS Fraction Not Destroyed	0.80	0.88	0.90
WAS Fraction in Digester	0.64	0.70	0.74
Supernatant, gpd	361	824	979
TSS in Digester, #	946	946	946
Total SS Removed, #/d	54	160	238
Supernatant TSS, #/d	0.9	2.1	2.4
Sludge Discharge, #/d	53	158	235
Sludge Rem/year, DTR	9.7	28.8	42.9
Sludge Discharge, gpd	639	1890	2821
Digester SRT, days	17.4	5.9	4.0
Sludge Stabiliz. Class	<B	<B	<B
Digester HRT, days	16.2	6.0	4.3
O2 Rqd, VSS, #/d	26	43	51
Air, SCFM	21	35	43
Diffuser Effic., %	5	5	5
Air Rqd. Mixing, SCFM	65	65	65
Design SCFM	65	65	65

**Land
Application
System**

	ROO1	ROO1	ROO1
System	ROO1	ROO1	ROO1
Flow	0.045	0.099	0.206
Land Application Area, sf	297000	297000	297000
Land Application Area, ac	6.82	6.82	6.82
Type System	perc ponds	perc ponds	perc ponds
# SubCells	4x2	4x2	4x2
Load Rate, gpd/sf	0.15	0.33	0.69
Load Rate, in/wk	1.70	3.74	7.79

2.5 Effluent Disposal / Reuse

Effluent from the treatment plant is disposed or reused by percolation evaporation ponds.

The relationship of the effluent disposal system to the treatment facility is shown in the site plan in figure 1.4

The associated loading rates of this system at current and design flows is as follows:

Table 2.5 Effluent Disposal\Reuse System

System Type	Application Area (acres)	Flow (MGD)	Loading Rate (in/wk)
percolation evaporation ponds	6.82	0.206	7.79
		0.045	1.7

Note: 1.9 gpd/sf equals 21.3 in/wk; 5.6 gpd/sf equals 62.9 in/wk.

The hydraulic application area consists of 6.82 acres per permit. The system consists of four dual cell percolation evaporation ponds.

The effluent disposal system has a nominal permitted capacity of 0.206 MGD, annual average flow. It is limited however by the permitted capacity of the plant.

2.6.2 Biosolids Storage and Disposal at Sun Lakes Estates WWTP.

There are two digester tanks with a total capacity of 16,200 gallons. Refer to section 3.1 of this report, under current flow, the theoretical waste sludge flow is 1000 gallons per day. Thickening to 1% solids creates a theoretical supernatant flow of 361 gallons per day.

Considering the volume recovery associated with supernating, the sludge digestion tankage should hold 25 days of waste sludge flow.

This is adequate storage capacity for disposal to another treatment plant without difficulty as evidenced by the years of satisfactory plant operation with respect to storage of solids in the digester.

Estimated sludge removal quantities (dry annual tonnage) is shown below. Sludge from this facility is removed by Shelley's Environmental. Please refer to the process calculations in table 2.4 for information on the SRT and predicted VSS destruction from this facility from the aerobic process alone. Sludge from this facility is hauled to another treatment plant for further stabilization and disposal. The disposition of the sludge is as follows:

Table 2.6 Sludge (Residuals) Disposal

	Direct Land Application	Biosolids Treatment Facility
Quantity	0 dry-tons/yr	9.7 dry-tons/yr
Site/Facility Name		Brevary County Regional
Location		
County		Brevard

3.0 Future Conditions - Wastewater Flow Projection

3.1 Unit Waste Generation Rates

From section 3.1, the annual average daily flow is 0.045 MGD.

There are 206 mobile homes served by this facility at the present.

From this, it is concluded that the unit waste generation rate is 218 gpd per mobile home.

3.2 Future Possible Average Flow

The future possible average flow to this facility is calculated in table 3.2 under the premise that the maximum future or build out flow is equal to the maximum number of units that contribute wastewater times their unit waste generation rate.

Table 3.2 Future Possible Average Flow

Type of Unit	#of Units	Unit Waste Generation Rate	Future Flow
mobile home	450	189 gpd per mobile home	0.098 MGD

3.3 Growth Rate

Future growth rates can be predicted from several methods. In general, the major methods are: linear regression of historical flow, local municipal comprehensive plan projections, and site specific knowledge.

In this case, site specific knowledge was used to predict flows using information supplied by the owners. The 206 lots presently occupied represent the bulk of the constructed subdivision and the areas is essentially built out. The owner has additional property which are undeveloped which might bring the number of connected units to 450, but, there are no plans for any such expansion at this time. The population demographics appear stable, and no further growth is expected for the next ten years. Annual average flows are expected to remain at present levels for the foreseeable future.

4.0 Summary and Recommendations

Based on the analysis of the wastewater treatment plant, effluent disposal or reuse system and sludge handling stream, the maximum ratable capacity of the wastewater treatment system is 0.135 MGD, as noted in the foregoing sections, but its permitted capacity is to remain at 0.099 MGD.

The effluent disposal system has a nominal, recognized permitted capacity of 0.206 MGD, annual average flow. It is limited however to the permitted capacity of the plant.

Future maximum capacity actually required for the next five to ten years is anticipated to not exceed 0.045 MGD, annual average basis. If future development were to proceed, annual average flows are not expected to exceed 0.098 MGD.

In accordance with 62-600.405 F.A.C. and based on future flow projections and present capacity, the owner of this facility needs to continue to monitor the proper operation of the plant.

Appendix

OPERATIONS AND MAINTENANCE

PERFORMANCE

REPORT

FOR

SUN LAKES ESTATES

WASTEWATER TREATMENT PLANT

BREVARD COUNTY, FLORIDA

ID: FLA010353

Permit No.: FLA010353 Expires: 10/27/2020

Date of Field Visit: 1/15/2020

Prepared For:

SUN LAKES HOMEOWNERS ASSOCIATION
5600 US HWY 1 N
SHARPS, FLORIDA, 32927

FEBRUARY 18, 2020

Prepared By:

MCDONALD GROUP INTERNATIONAL, INC.

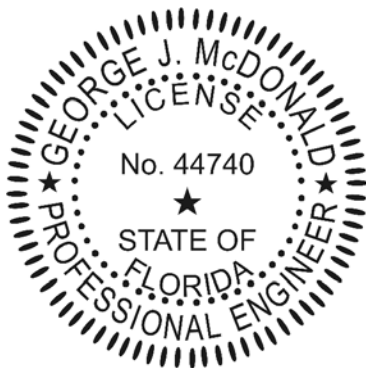
9030 S. BRITTANY PATH
INVERNESS, FLORIDA 34452
C.A.-7580



**OPERATIONS AND MAINTENANCE
PERFORMANCE
REPORT
FOR
Sun Lakes Estates
WASTEWATER TREATMENT PLANT**

Brevard County, Florida

The information contained in this report is true and correct to the best of my knowledge, the report was prepared in accordance with sound engineering principles, and I have discussed the recommendations and schedules with the permittee or the permittee's delegated representative and the lead operator and agrees that if the recommended schedules for corrective action are met, the facilities, when properly operated and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department



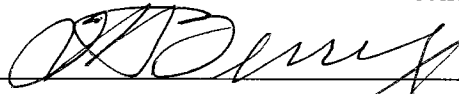
George J. McDonald, P.E.,
FL PROFESSIONAL ENGINEER NO. 44740
McDonald Group International, Inc. CA-0007580
9030 S. Brittany Path, Inverness Florida 34452, (352)-637-1652

This report has been electronically signed and sealed by George J. McDonald PE on 2/22/20 using a Digital Signature. Printed copies of the document are not considered signed and sealed and all signatures must be verified on any electronic copies .

**OPERATIONS AND MAINTENANCE
PERFORMANCE
REPORT
FOR
Sun Lakes Estates
WASTEWATER TREATMENT PLANT**

Brevard County, Florida

I have reviewed and am fully aware of and intend to comply with the recommendations and schedules included in this report.



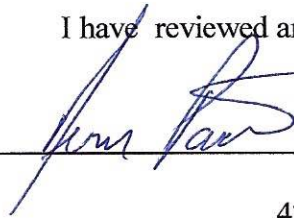
Date: 2-19-2020

Thad Terry, Sun Lakes Homeowners Association
5600 US Hwy 1N, Sharps, FL, 32927
(321)-639-1124

**OPERATIONS AND MAINTENANCE
PERFORMANCE
REPORT
FOR
Sun Lakes Estates
WASTEWATER TREATMENT PLANT**

Brevard County, Florida

I have reviewed and am fully aware of the recommendations
and schedules included in this report



Date: *2-21-2020*

Jerry Padrick Plant Operator
4220 Temple St, Cocoa, FL, 321-639-1273

**OPERATIONS AND MAINTENANCE PERFORMANCE REPORT
Sun Lakes Estates WWTP**

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Operations and Performance Report For Sun Lakes Estates WWTP

1.0. General

In accordance with Florida Department of Environmental Protection (FDEP) Rule 62-600.735, owners of wastewater plants requesting a renewal of their wastewater permit must have an evaluation made of the plant operations and performance history. This evaluation must be made by a professional engineer registered in the State of Florida and presented in the form of an Operations and Maintenance Performance Report (OMPR).

At the request of Sun Lakes Homeowners Association a site visit was made to the Sun Lakes Estates Wastewater Treatment plant by George J. McDonald, P.E., of McDonald Group International Inc. in conjunction with preparing the evaluation.

Information contained in this report is based on information collected during that site visit as well as information furnished by the Owner and operator.

The facility is located on 616 Emerald Lake Drive, Cocoa, Brevard County, Florida. A location map and USGS quad map are provided in Figures 1.1 and 1.2 respectively.

1.1 Authorization and Purpose

Sun Lakes Homeowners Association has retained George J. McDonald, P.E. to study the performance history at the Sun Lakes Estates Wastewater Treatment Plant in order to provide the necessary operations and maintenance performance report in support of the wastewater plant permit renewal application. As such, it is a specific purpose report intended for review by the Owner and the FDEP. It is not intended for reuse by any other party, as for example, a due diligence report.

1.2 Related Reports and Information

Additional information concerning the capacity of the wastewater plant, process analysis, treatment performance, unit process capacity, summary of monthly operating reports and other data is contained in the companion report, "Capacity Analysis Report For Sun Lakes Estates WWTP".

Also refer to FDEP Forms 1 and 2A which accompany the permit renewal application.

1.3 Facility Information

This Wastewater Treatment Plant is presently permitted for the flow capacity and discharge limitation standards in the following table:

**Table 1.3 WWTF Effluent Limitation Standards
Sun Lakes Estates**

1. Maximum flow capacity - 0.135 MGD (permitted for 0.099 MGD) (plant)
- 0.206 MGD (effluent disposal)
2. BOD and TSS maximum concentrations -
20 mg/L annual average
30 mg/L monthly average
45 mg/L weekly average
60 mg/L any one sample
3. pH range - 6.00 to 8.50
4. Fecal Coliform -
200 #/100 annual average
800 #/100 maximum allowable
5. Minimum Cl₂ conc. - 0.5 mg/L
6. Nitrate 12 mg/L max

The Sun Lakes Estates Wastewater Treatment Plant has been permitted for operation since January of 1984.

Process

It is an activated sludge waste treatment facility operating in the extended aeration mode. The treatment process comprises the following: flow equalization, aeration, final settling; sludge digestion, disinfection. A process plan is included as figure 1.3

Modifications

The facility has not been reported to have been modified in the last 5 years.

Notices of violation

According to the Owner and the operator, no recent notices of violation have been received or consent orders entered into.

1.4 Information Sources

This report is prepared based on information supplied by the permittee, information that may be found in FDEP public databases, the current permit, and information supplied by the operator. The report relies on the accuracy of this information for all analysis and opinions.

Figure 1.1 Location Map

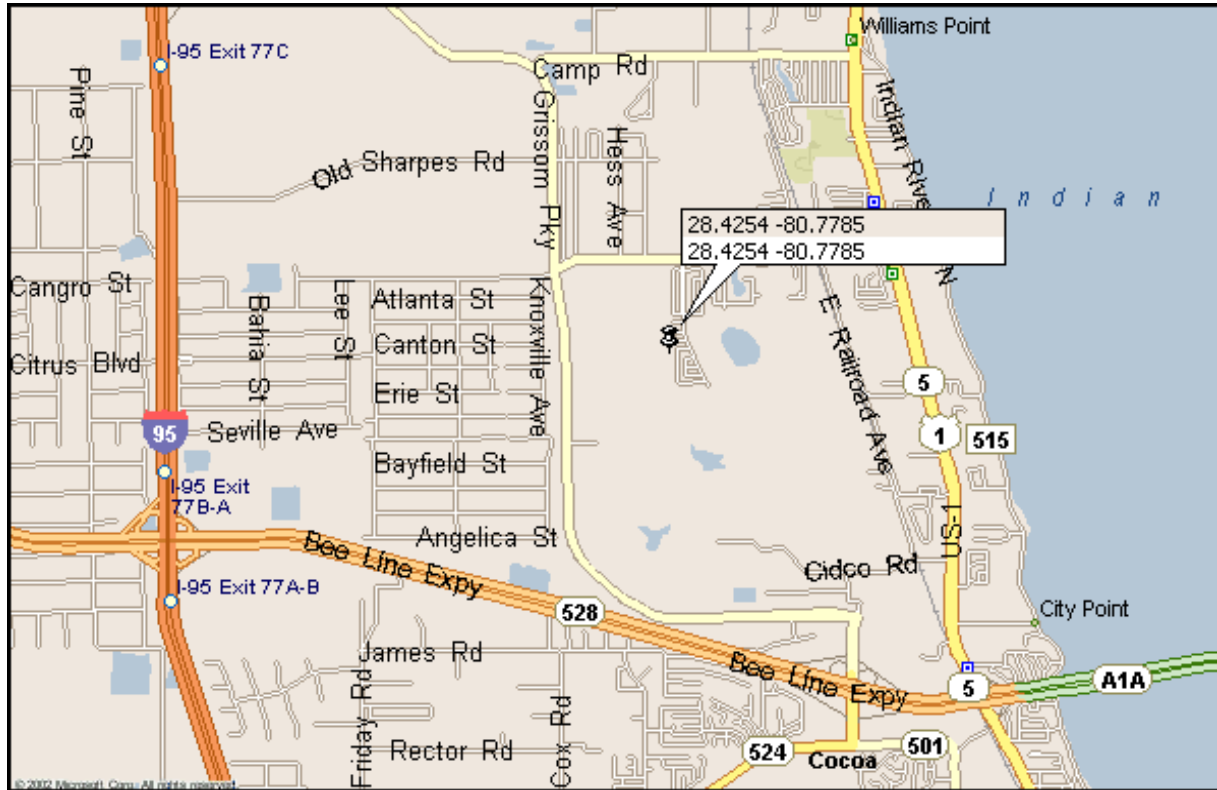


Figure 1.2 USGS Map

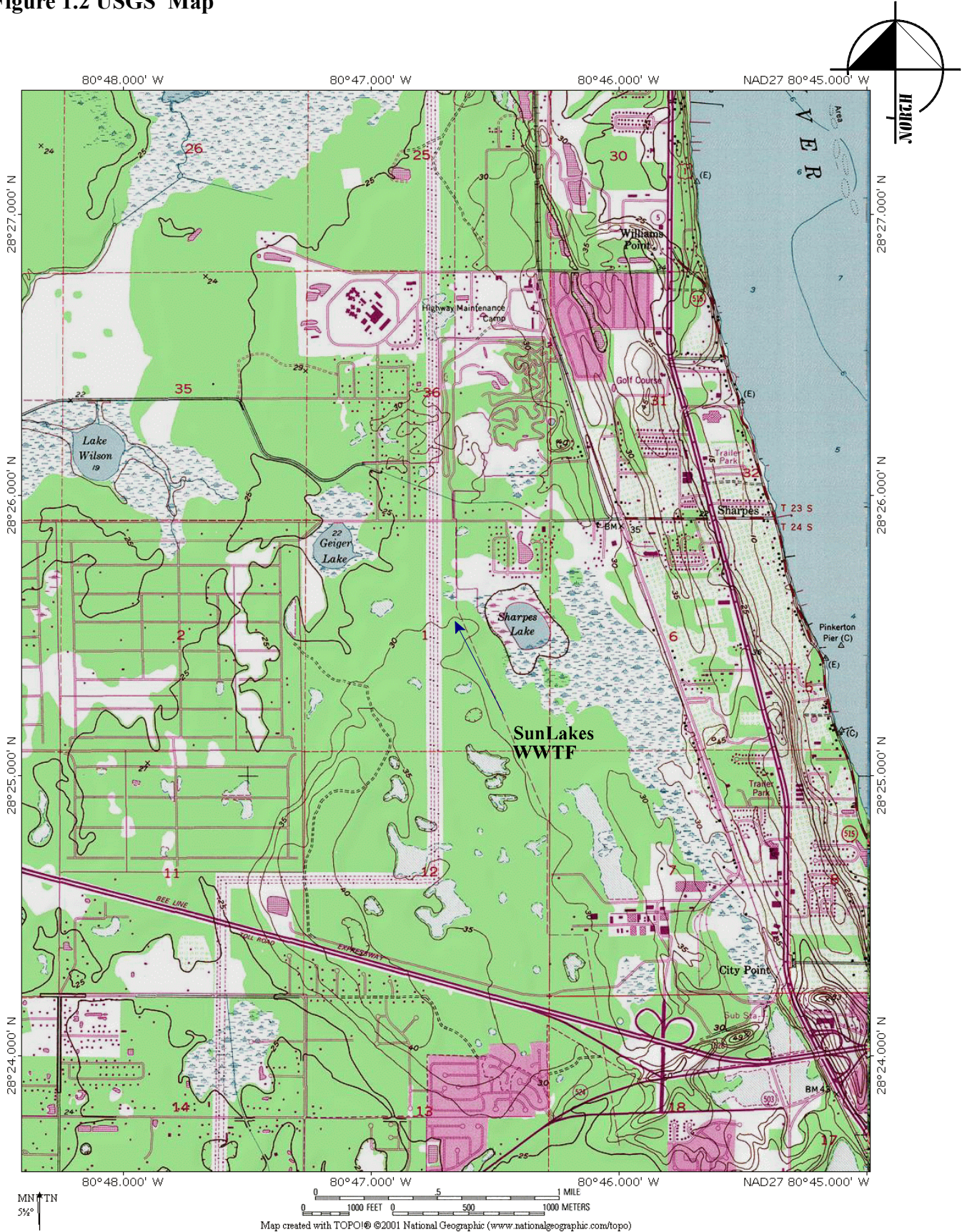
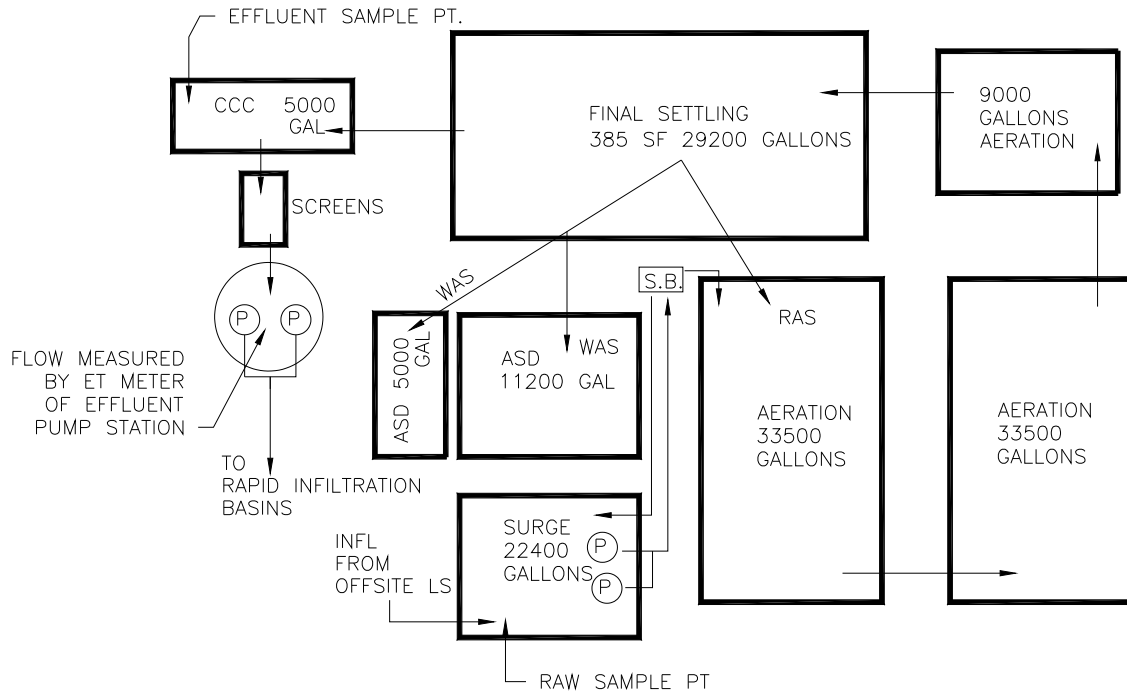


Figure 1.3 Process Plan



PROCESS VOLUMES SHOWN BASED ON APPROXIMATE FIELD MEASURES AND INFORMATION FROM FACTORY CATALOGUE

2.0 Physical Condition

The following information has concerning the physical condition of the treatment plant has been developed from our own checklist developed specifically to evaluate treatment plants of this size and type.

General Information

This facility was visited by George J. McDonald, P.E., January 15, 2020.

The Sun Lakes Estates wastewater treatment plant is of the following type of construction: precast, field erected concrete. The manufacturer of the components is the Marolf company.

The facility operator is a contract service provider, Jerry Padrick, operator certifiante C-7051.

Access to the facility is controlled as follows: site is enclosed with a fence.

Water for plant washdown purposes is obtained from a site non potable water well.

Flow Measurement

Flows to this treatment plant are measured by a elapsed time meters, measuring the running time of the effluent pumps. Calibration is maintained by the operator.

Flow Equalization

This facility is equipped with flow equalization. Dual pumps discharge to a splitter box. The following describes the features observed on the flow equalization system:

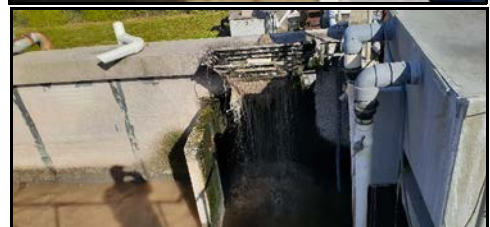
Surge Tank Aeration surge tank was aerated, part of the air header over the tank had been recoated.

Surge Tank Pumps surge tank pumps were operational
Surge Tank Splitter Box in place and functional

There is significant sand and grit build up in the surge tank, estimate depth of a foot or greater.

Pretreatment

This facility has limited pretreatment equipment. It was noted that a coarse bar rack was installed where the raw



influent enters the surge tank. This was in fair condition. At the time of the visit the lower part of the rack had captured a fair amount of material.

Aeration System

Aeration is supplied to this facility using diffused aeration. It is equipped with dual blowers.

The following was noted with respect to the equipment observed:

Blower Mfr./Model Gardner Denver 6MR
Motor Mfr. US Electric
Horsepower 20
Intake Filters Intake filters were in place
Other Comments both blowers were operational
this visit



The control panel was observed and was noted to be a fiberglass panel in satisfactory condition.

Piping from the blowers was observed and found to be mix of both PVC and galvanized steel and PVC, all in fair condition. The diffusers were observed and all were observed operating normally.



Activated Sludge Process

The following was noted with respect to the condition of the tankage and biological process. The process mode is extended aeration. The mixed liquor was medium brown in color, and appeared to be adequately mixed.

The aeration tanks were covered with medium brown colored foam.

The main plant structure is assembled from precast concrete panels which are joined together to form the treatment plant structure. As the structure continues to age, there will be intermittent to address weeps which may appear at the seams. Within the past year, the tank had been serviced to stop weeps and leaks at seams. At the time of the visit weeps seen in earlier visits appeared corrected. One small damp area on the exterior wall at a seam was noted in one corner.



Sand/Grit Layer

Process tankage bottoms were probed. The grit layer in the surge tank was in excess of a foot.

Final Settling

Effluent from the final settling tank appeared clear on the day of the visit. The surface of the clarifier was free of excess scum or other material.



The sludge blanket was deep, not visible.

The skimmer was observed to be operating at the time of the visit

The sludge collector is an eductor type system, with (3) units in (3) hoppers. All eductors were working properly.

Other observations were as follows:

RAS/WAS Piping RAS/WAS piping was PVC, in serviceable condition
Baffles in place, seemed to be working satisfactorily

Disinfection

The disinfection system consists of chlorination and contact in a detention tank. After chlorination, effluent passes through a tank, which formerly had screens placed in it. From there effluent passes to an effluent dose tank and is pumped to the percolation ponds.



Observations concerning this system are as follows:

Number of Chlorine Contact Tanks single CCC tank

General Condition CCC generally in good condition,
Method of Disinfection Hypochlorination

Equipment Mfr. Stenner

Equipment Evaluation: overall, appeared to be working adequately



Comments, observable features of mechanical equipment (blowers, pumps, eductors, valves and chemical feeders)

The general condition of these components indicated normal wear without apparent corrosion, excessive wear, noise, vibration or heat (note, submersible sewage pumps in the surge tank and

effluent pump wet well could not directly examined for heat, only for proper operation)

Comments, Treatment Plant Safety Features

Access stairs and walkways with handrails were provided. Fabricated wood belt guards were noted over the blower pulleys and belts. The safety features in use at this facility is typical of the construction features found in facilities of this type. As such, they present no more nor no less a degree of safety hazard to visitors and to the operator than most facilities of its size and type. Only persons trained to work on such facilities should do so. Industry standard safety precautions when servicing this facility should be followed.

Sludge Digestion, Biosolids Storage Plan, & Disposal

This treatment plant has two holding compartments for waste sludge. One is the plant's original final settling tank, now used as a digester, and the other is a stand alone, modular precast concrete tank. Comments are as follows:



Sludge Digester Aeration sludge digester tank was aerated

Solids in Digester tank was about full of thickened sludge during this visit

Supernatant Supernatant is removed from digester both by gravity and also by eductor

The current sludge hauler is reported to be All Service. They take the sludge for processing at the Brevard County Regional Treatment Plant for subsequent processing and disposal.

Effluent Disposal and Reuse

Effluent from this treatment plant is disposed or reused by rapid infiltration basins. Effluent is pumped to the basins from a pump station. Both pumps were operational. There was a leak in the discharge piping of one but was subsequently repaired. The hydraulic application area consists of 6.82 acres per permit. The permit states that the system consists of "4 dual- cell percolation ponds" and has a capacity of 0.206 MGD, but limited to the permitted capacity of the plant.



Condition, depth, appearance: at the time of the visit, berms and sideslopes were due to be mowed. Ponds are loaded and rested, with loading and resting of the ponds taken place. There is some standing water in loaded cells, little water in rested cells.

Access Control site is fenced .

Odor :none noticed



3.0 Treatment Efficiency

The treatment plant must meet the target treatment levels described in section 1.3. Treatment efficiency is considered in this section from two points of view. The first, in section 3.1, is the load on each unit process considered under a current load and also under its permitted capacity. Loads are calculated in accordance with standard engineering criteria such as process SRT and MLSS concentration, hydraulic retention time, hydraulic and solids overflow on the clarifier, etc. In section 3.2, the overall performance of the treatment plant to meet its treatment objectives is reviewed.

3.1 Treatment Units

The Sun Lakes Estates wastewater treatment plant is an activated sludge wastewater treatment plant operating in the extended aeration mode.

Table 3.1 lists each unit process along with the associated loading rate with pertinent dimensional or volumetric data, as well as process control data. (Volumetric, areas and dimensional data is estimated from information contained in the manufacturer's catalog as well as approximate field measurements of the tankage.)

Table 3.1 Unit Process Summary

			<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
Influent Characteristics:					
	BOD	mg/L	285	285	285
	TSS	mg/L	253	253	253
	TKN	mg/L	40	40	40
	AADF	MGD	0.045	0.099	0.135
Effluent Targets					
	BOD	mg/L	<20	<20	<20
	TSS	mg/L	<20	<20	<20
	Nitrate	mg/L	<12	<12	<12
	Disinfection		basic	basic	basic
Surge Tank					
	Volume of Tank	Gal	22400	22400	22400
	Vs/Q		0.50	0.23	0.17
	Inflow Peak Factor		3.5	3.5	3.5
	Design - OutFlow Peak		1.9	1.9	1.9
	Theoretical Minimum Vs	Gal	7350	16170	22050

Process Design:

	<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
Process Mode	Ext Aer	Ext Aer	Ext Aer
Temp	20	20	20
MLSS mg/L	3970	3954	4118
SRT days	38	14	10
Yield Coefficient	0.62	0.77	0.82
anoxic	0	0	0
aeration	0.076	0.076	0.076
Total Volume MGAL	0.076	0.076	0.076
V/Q, hrs.	40.5	18.4	13.5
BOD Loading, #/1000 cf	10.5	23.2	31.6
Solids, Oxid, Lbs	2516	2506	2610
Solids, Anoxic, Lbs	0	0	0
MLSS Recirculation, %	0	0	0
RAS Recycle, %	100	100	100
RAS mg/L	7939	7908	8235
WAS, lb/day	66	179.02	260.99
WAS, gpd	1000	2714	3800
Tank Configuration	series	series	series

Aeration System:

Process O2, lb/day	286	573	755
Diffuser Efficiency, %	6	6	6
Air Rqd., SCFM	192	385	507
lb O2/#BOD	2.7	2.4	2.4
Air supply, CF/# BOD	2588	2353	2274
Type Aeration	Diffused	Diffused	Diffused
Number of Eductors	3	3	3
Return Rate/Eductor, GPM	10.4	22.9	31.3
Air Eductors	18.5	29.3	36.4
Skimmer Air	6.2	9.8	12.1
Air Rqd. RAS:	25	39	49
Air Rqd. Process:	192	385	507
Air Rqd. Digester	65	65	65
Volume Surge	22400	22400	22400
Air Rqd. Surge	90	90	90
Total Air Rqd.:	372	578	710
HP Required	14.9	23.1	28.4
Hp provided	(2) 20 Hp	(2) 20 Hp	(2) 20 Hp

Final Settling:

No. of Clarifiers	1	1	1
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	<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
Surface Area, EA., Total	385	385	385
Est Side Depth	10	10	10
Total Depth to Hopper Bottom	16	16	16
Volume	29200	29200	29200
V/Q, hrs.	15.6	7.1	5.2
Design Peak Factor	1.9	1.9	1.9
Hydraulic Overflow:			
Avg., gpd/sf	117	257	351
Peak, gpd/sf	222	489	666
Solids Loading Rate:			
Avg., lb/d-sf	8	17	24
Peak, lb/d-sf	11	25	35

Disinfection:

Method	Hypochlorination	Hypochlorination	Hypochlorination
No. of CCCs	1	1	1
Volume EA, gallons	5000	5000	5000
Total CCC volume est	5000	5000	5000
Cl ₂ Residual, mg/L	0.5	0.5	0.5
Cl ₂ Dose, mg/L	8	8	8
Consumption, lb/day	3.00	6.61	9.01
<i>Hypochlorination System</i>			
Est. Sodium Hypochlorite strength, %	12.5	12.5	12.5
Dose required, mg/L	8	8	8
Available Chlorine, lb/gal	1.04	1.04	1.04
dose, #/gal	0.0000668	0.0000668	0.0000668
Avg dose, #/day	3.00	6.61	9.01
Avg dose, gal/day	2.9	6.3	8.6
Peak Hour Capacity, gal/day	5	12	16
<i>CCC Retention Time</i>			
@ ADF, minutes	160	73	53
@ PHF, minutes	84	38	28
Residual * Detention	42	19	14
Disinfection Level	Basic	Basic	Basic

Aerobic Sludge Digestion:

WAS Flow, gpd	1000	2714	3800
Total Solids, #/day	66.21	179	261
WAS, mg/L	7939	7908	8235
% Volatile	75	75	75
WASv, mg/L	5955	5931	6177
Total VSS, #/d	50	134	196
VSS, #/Digester cf/day	0.02	0.06	0.09
Thick Solids, %	1	1	1

	<i>Current Flow</i>	<i>Permitted Flow</i>	<i>Facility Capacity</i>
Digester Vol, gal	16200	16200	16200
Initial Est.SRT, days	17	6	4
Temp, Degrees C	20	20	20
VSS Destroyed, %	26.00	15.91	13.14
Avg. Solids, mg/L	7000	7000	7000
Supernatant Solids,mg/L	300	300	300
WAS Fraction Not Destroyed	0.80	0.88	0.90
WAS Fraction in Digester	0.64	0.70	0.74
Supernatant, gpd	361	824	979
TSS in Digester, #	946	946	946
Total SS Removed, #/d	54	160	238
Supernatant TSS,#/d	0.9	2.1	2.4
Sludge Discharge,#/d	53	158	235
Sludge Rem/year, DTR	9.7	28.8	42.9
Sludge Discharge,gpd	639	1890	2821
Digester SRT, days	17.4	5.9	4.0
Sludge Stabiliz. Class	<B	<B	<B
Digester HRT, days	16.2	6.0	4.3
O2 Rqd, VSS, #/d	26	43	51
Air, SCFM	21	35	43
Diffuser Effic.,%	5	5	5
Air Rqd. Mixing, SCFM	65	65	65
Design SCFM	65	65	65

Land Application System

System	ROO1	ROO1	ROO1
Flow	0.045	0.099	0.206
Land Application Area, sf	297000	297000	297000
Land Application Area, ac	6.82	6.82	6.82
Type System	perc ponds	perc ponds	perc ponds
# SubCells	4x2	4x2	4x2
Load Rate, gpd/sf	0.15	0.33	0.69
Load Rate, in/wk	1.70	3.74	7.79

3.2 Overall Treatment Efficiency

The treated wastewater leaving the plant must meet limitations contained in the treatment plant's permit. Table 3.2 shows the current plant performance for the period reviewed versus the permitted requirements for effluent quality.

**Table 3.2 Effluent Quality Analysis
Sun Lakes Estates**

<i>From November 2016 to November 2019</i>			
Parameter	Result	Units	Limit
AADF	0.045	MGD	0.099
M3MADF	0.063	MGD	report
Mo Flow	0.107	MGD	report
BOD An Avg	5.07	mg/L	20
BOD Mo Avg	42	mg/L	30
BOD Max	42	mg/L	60
TSS An Avg	7.74	mg/L	20
TSS Mo Avg	23	mg/L	30
TSS Max	23	mg/L	60
p H Min	7		6
p H Max	7.6		8.5
TRC	0.5	mg/L	0.5
Fecal An Avg	32	#/100 ML	200
Fecal Max	380	#/100 ML	800
Nitrate	26	mg/L	12
Max TN	40	mg/L	report
Max TP	13	mg/L	report

Departures from permitted requirements are considered in section 7 of this report.

4.0 Performance Trends

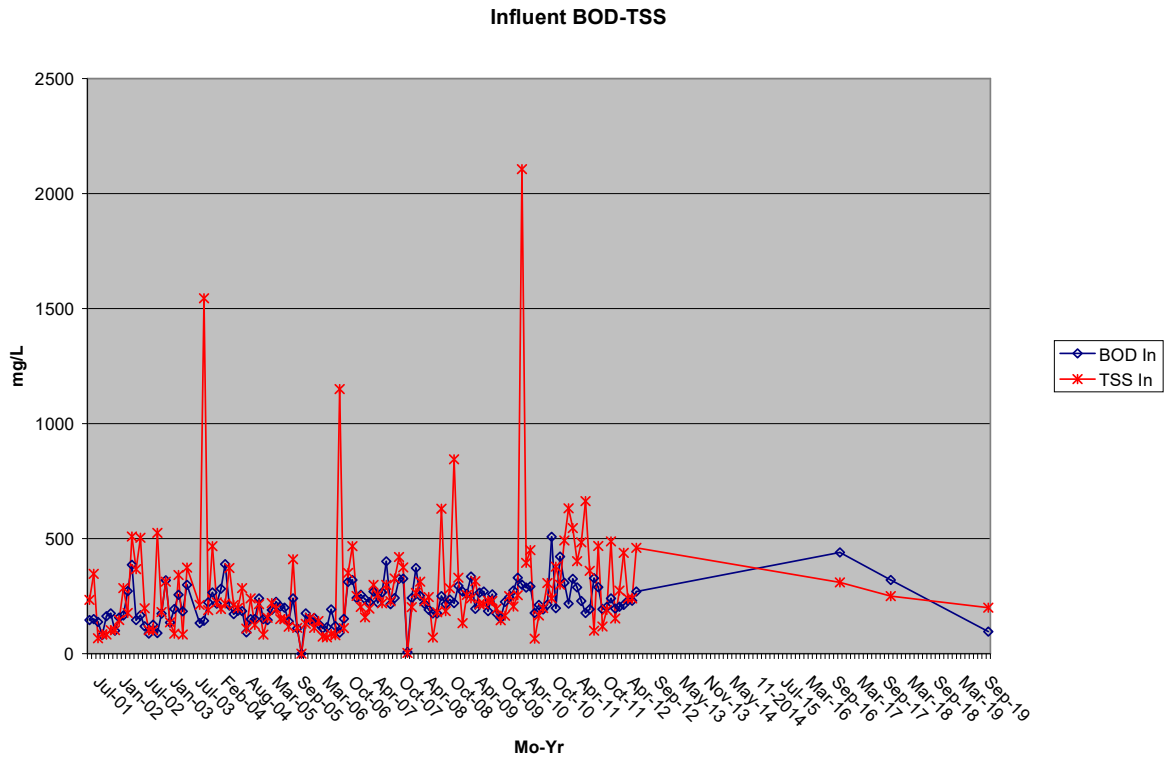
4.1 Influent

The major parameters used to evaluate influent strength are influent BOD, TSS, TKN. Based on available test data, the influent strength is estimated to be as follows:

Table 4.1 Influent Strength

<u>Parameter</u>	<u>Characterization</u>
CBOD ₅	285 mg/L
TSS	253 mg/L

No change is foreseen in the overall strength of the wastewater.

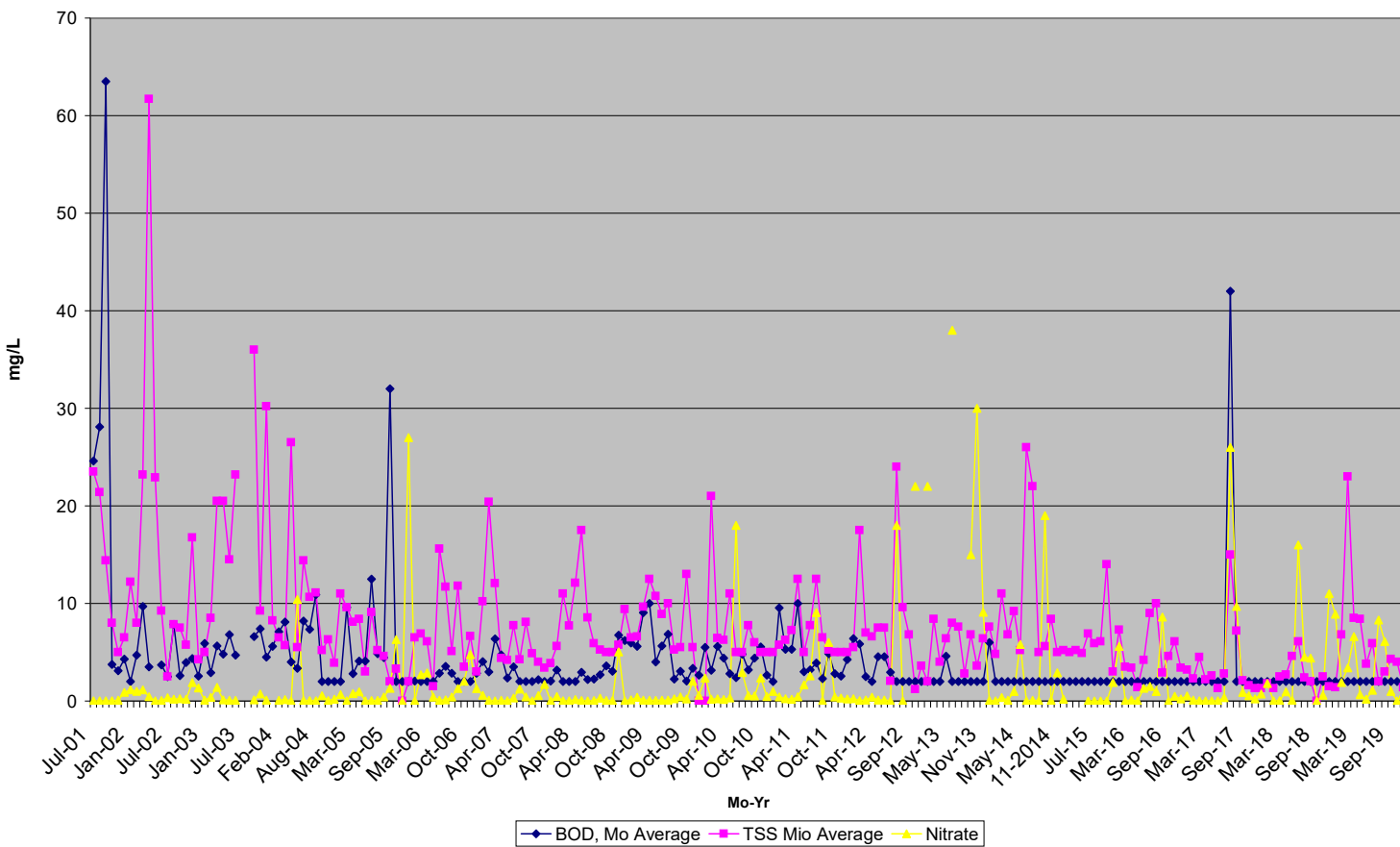


4.2 Effluent Quality

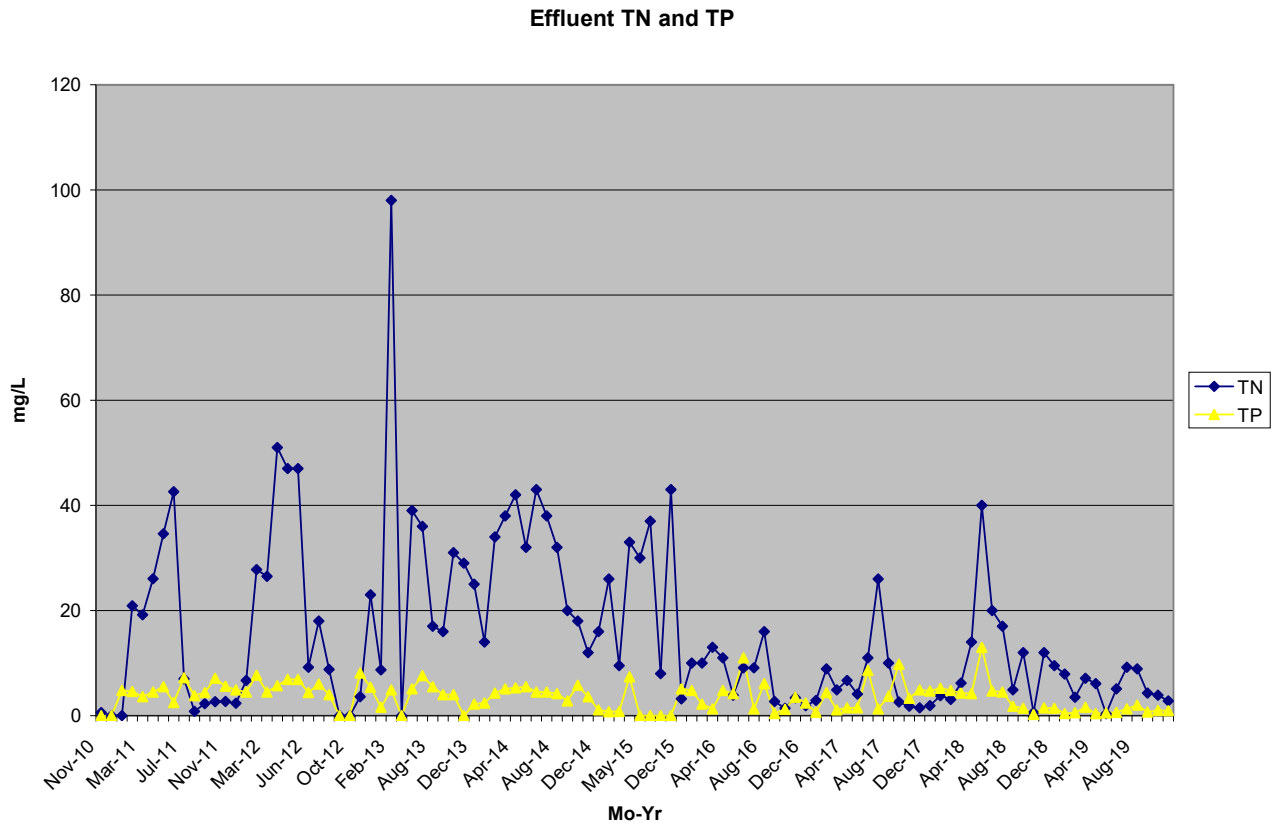
Data from Discharge Monitoring Reports (DMRs) were studied to determine the actual plant flow characteristics. See table 3.2 from the preceding section which summarizes the data taken from the DMRs for the current period.

In general, with the exception of an elevated BOD in July of 2017, the effluent quality appears to be within standard and no changes in the future to this are expected.

Effluent BOD/TSS/Nitrate



The treatment plant is required to monitor and report effluent total nitrogen and phosphorus. These test results are graphically portrayed below:



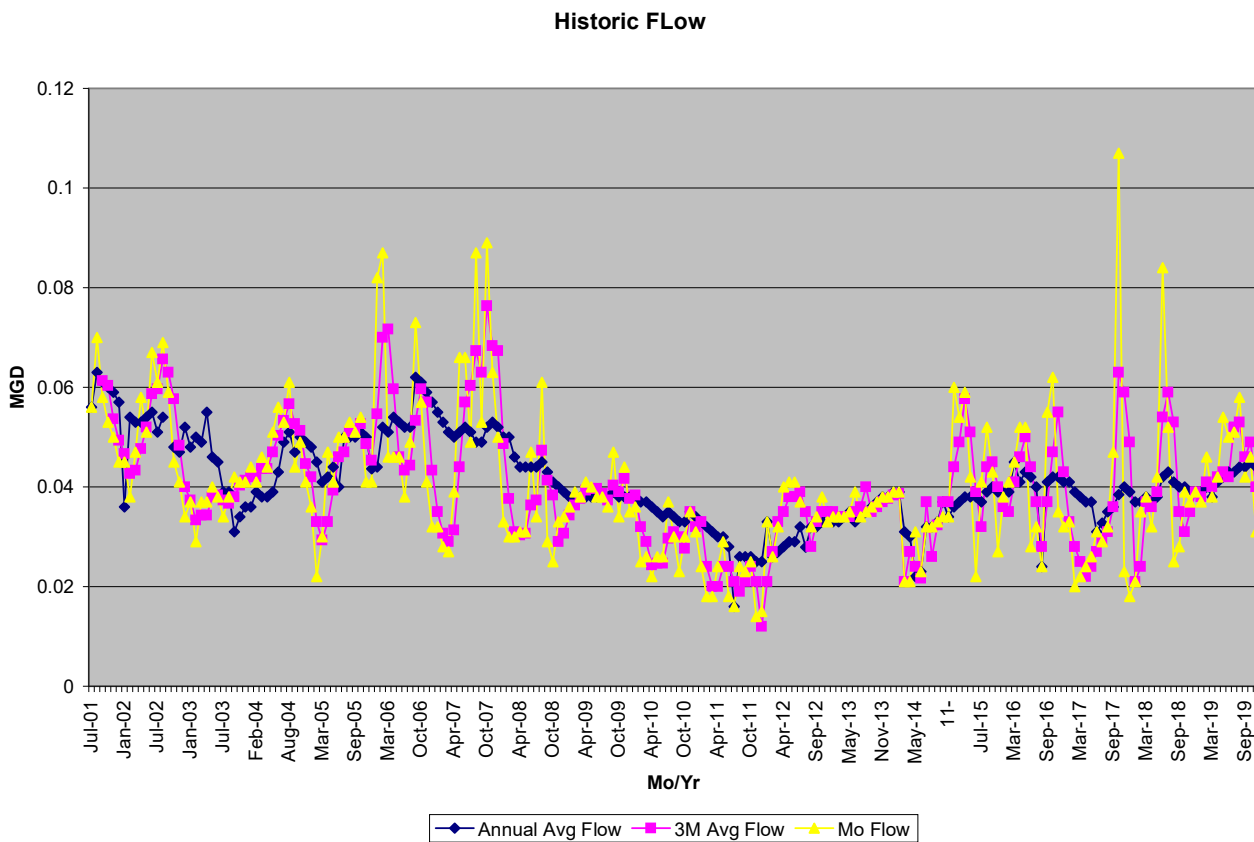
4.3 Flow : Three Month Average Daily and Monthly Average

The figure below illustrates the month average and rolling three month average flow for the period reviewed.

Within the past three years, The maximum month flow reached 0.107 MGD (an anomalous result from October of 2017). The annual average daily flow for this facility is 0.045 MGD. The maximum three month average daily flow is 0.063 MGD. The plant permitted capacity is 0.099 MGD, based on an annual average daily flow basis. This facility appears therefore to be operating at 45% capacity. See also the accompanying Capacity Analysis Report for further analysis.

Peak hour flows were estimated by consideration of the availability of a surge tank and the probable attenuation. Based on this, the peak hour factor is estimated to be 3.5, attenuated to 1.9 times the average daily flow.

Figure 4.3 Flow Chart



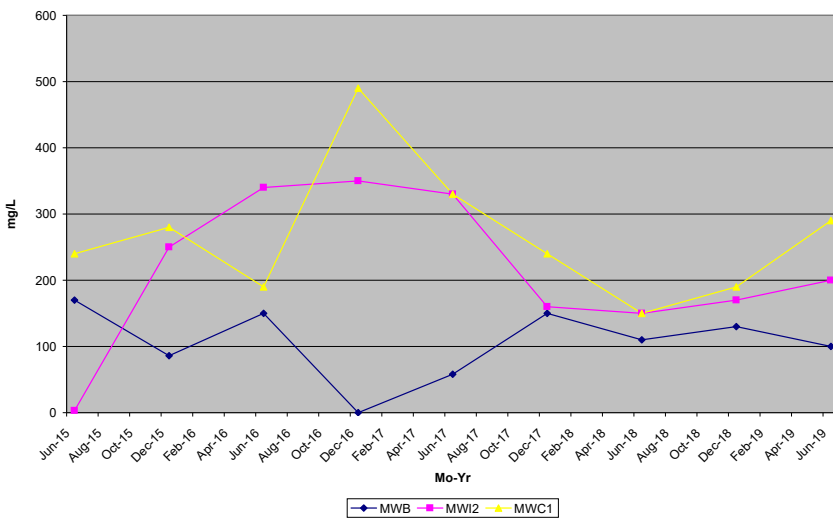
4.4 Groundwater Quality

This facility has three monitor wells, a background, intermediate and compliance monitor wells.



The charts below compare the selected parameters of TDS and Nitrate of the three wells. Monitor well data is contained in the appendix of this report:

Monitor Well TDS



MW Nitrate

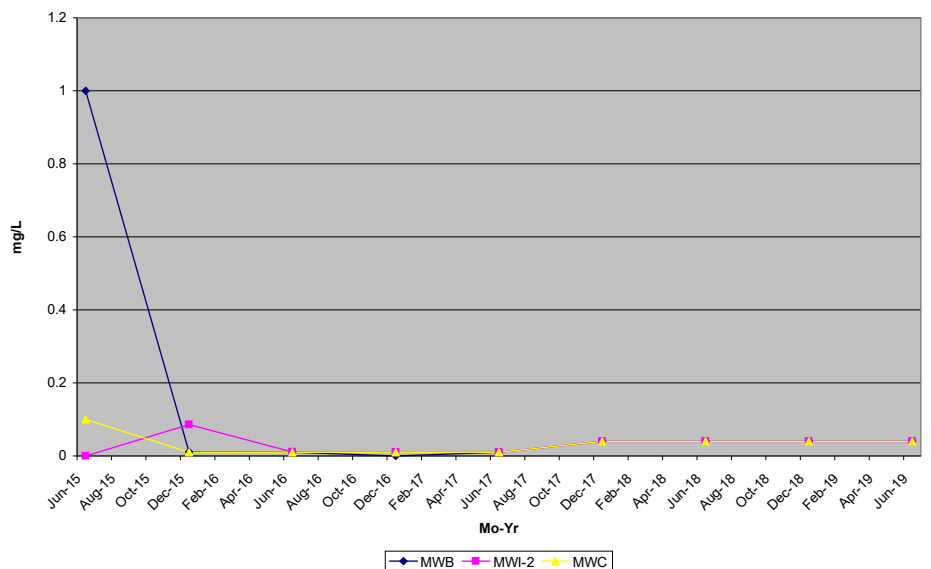


Table 4.2 Historical Effluent Flow and Quality

	Flow An Avg	Flow 3MADF	Flow Mo Avg	BOD An Avg	BOD Mo Avg	BOD Max	Tss An Avg	TSS Mo Avg	TSS Max	pH Min	pH Max	Fecal An	Fecal Max	TRC	Nitrate	TN	TP	BOD In	TSS In
Jul-01	0.056		0.056	19.6	24.6		23.5	23.5		6.8	7	200	200		0.02			146	234
Aug-01	0.063		0.07	23.8	28.1		33.2	21.4		7.4	8.4	99	2	0	0.02			150	347
Sep-01	0.061	0.061	0.058	58.2	63.5		26.9	14.4		6.6	8.4	100	103	0.5	0.022			138	67
Oct-01	0.06	0.060	0.053	54	3.75		25.4	8		7.4	8.2	93.1	11	0.6	0.03			81	83.7
Nov-01	0.059	0.054	0.05	50	3.1		23.8	5		7.5	8.3	105.7	258	0.5	0.08			163	83
Dec-01	0.057	0.049	0.045	46.4	4.3		22.4	6.5		7.3	8	98.2	9	0.6	0.89			175	102
Jan-02	0.036	0.047	0.045	40.8	2		20.6	12.2		7.1	8	97	90	0.6	1.152			100	102
Feb-02	0.054	0.043	0.038	38	4.7	5.8	19.6	8	12.3	7.5	8.4	89.6	2	0.5	0.99			157	146
Mar-02	0.053	0.043	0.047	35.8	9.7	17.9	23	23.2	41.5	7.5	8.5	87.7	65	0.6	1.15			166	285
Apr-02	0.053	0.048	0.058	33.5	3.5		25.9	61.7		7	8.3	82.8	25	0.6	0.45			272	177
May-02	0.054	0.052	0.051	25.8			48.5	22.9		7	7.2	507.3	502	0.5	0.02			386	509
Jun-02	0.055	0.059	0.067	13.1	3.7	6	17.5	9.25	14	6.7	7.5		17	0.5	0.058			146	367
Jul-02	0.051	0.060	0.061	11.3	2.5	2.6	15.7	2.5	2.6	6.9	7.8	48.2	2.5	0.5	0.339			167	504
Aug-02	0.054	0.066	0.069	9	7.85	7.85	15.19	7.85	9.7	7.2	7.6	56.5	48.5	0.5	0.189			119	197
Sep-02		0.063	0.059		2.6	2.6		7.5	10	7.1	7.4	99.08	653	0.5	0.238			87.5	102
Oct-02	0.048	0.058	0.045	4.55	3.95	4.2	14.41	5.75	6	7	7.4	98.2	6	0.5	0.18			125.5	101.3
Nov-02	0.047	0.048	0.041	4.53	4.35	5.2	14.5	16.75	26.5	7.2	7.6	6	9	0.5	1.89			89.5	525
Dec-02	0.052	0.040	0.034	4.45	2.55	5	14.4	4.25	5	7.3	7.8	77.3	6.5	0.5	1.34			174	181
Jan-03	0.048	0.037	0.037	4.83	5.9	8.3	14.06	5	8	6.5	7.6	69.9	1	0.5	0.092			319	313
Feb-03	0.05	0.033	0.029	4.33	2.9	4.3	13.9	8.5	13	7.2	7.8	71.4	1	0.5	0.376			135	136
Mar-03	0.049	0.034	0.037	4.43	5.65	9.8	14.4	20.5	27	7.4	7.6	68.7	37.5	0.5	1.4			194	86.7
Apr-03	0.055	0.034	0.037	4.51	4.8	4.9	14.8	20.5	29	7.4	7.6	66.1	13	0.5	0.116			256	342
May-03	0.046	0.038	0.04	4.4	6.8	6.8	10.8	14.5	14.5	7.4	7.8	66.3	2	0.5	0.074			184	83.3
Jun-03	0.045	0.038	0.038	4.4	4.7	7.9	11.7	23.2	31	7.5	7.8	65.2	6.5	0.5	0.063			299	374
Jul-03	0.039	0.037	0.034							7.4	7.8								
Aug-03	0.039	0.037	0.038							7.4	7.6								
Sep-03	0.031	0.038	0.042	4.6	6.6	6.6	16.4	36	36	7.5	7.8	61	1	0.5	0.116			133	212
Oct-03	0.034	0.040	0.041	4.8	7.4	9.6	15.8	9.25	16	7.5	7.8	56.3	1	0.9	0.721			143	1545
Nov-03	0.036	0.041	0.041	4.7	4.5	4.5	16.9	30.2	50	7	7.4	50.4	2	0.6	0.092			223	189
Dec-03	0.036	0.042	0.044	4.8	5.6	8	15.2	8.25	9	7.6	7.8	51.9	1	2.2				266	467
Feb-04	0.039	0.042	0.041	6	7.1	8	14.7	6.5	7	7.1	7.8	4.96	4	0.5	0.067			217.5	223
Mar-04	0.038	0.044	0.046	6.1	8.1	16.3	14	5.7	8.5	7.4	7.9	4.65	1	0.5	0.144			282	194
Apr-04	0.038	0.044	0.044	5.9	4	4		26.5	26.5	7.8	7.2	7.98	48	2	0.005			389	218
May-04	0.039	0.047	0.051	5.7	3.35	5.2	13.3	5.5	7.5	6.8	7.5	7.3	1	0.8	10.4			209	372
Jun-04	0.043	0.050	0.056	5.9	8.2	9.7	13.3	14.4	18.8	7.5	7.8	7.4	9.5	0.5	0.056			172	211.5

	Flow An Avg	Flow 3MADF	Flow Mo Avg	BOD An Avg	BOD Mo Avg	BOD Max	Tss An Avg	TSS Mo Avg	TSS Max	pH Min	pH Max	Fecal An	Fecal Max	TRC	Nitrate	TN	TP	BOD In	TSS In
Jul-04	0.049	0.053	0.053	6	7.35	13.1	13.1	10.65	14	7.5	7.8	8.05	17	0.5	0.049			186.5	198.5
Aug-04	0.051	0.057	0.061	6.73	10.9	12	15.23	11.1	14	7.5	7.8	62.7	667	0.6	0.025			185	285
Sep-04	0.047	0.053	0.044	6.33	2	2	12.6	5.2	8.4	7.3	7.6	63.7	12.5	0.5	0.54			92.5	109
Oct-04	0.05	0.051	0.049	5.99	2	2	12.1	6.3	6.6	7.6	7.9	59.3	7.5	0.5	0.045			150	240
Nov-04	0.049	0.045	0.041	5.6	2	2	11.4	3.9	4.4	7.5	7.7	54.8	1	1	0.181			150	125
Dec-04	0.048	0.042	0.036	5.3	2	2	11.3	11	12	7.4	7.9	50.6	1	0.5	0.663			240	215
Jan-05	0.045	0.033	0.022	4.8	9.6	17	3.98	9.6	17	7.3	7.8	1	1	0.6	0.0215			150	82.9
Mar-05	0.041	0.029	0.03	4.77	2.8	3.3	9.2	8.1	10.8	7.2	7.6	10.5	54.5	0.5	0.76			146	156
Apr-05	0.042	0.033	0.047	4.71	4.1	4.4	8.8	8.4	16.8	6.1	7.8	9.76	1	0.5	0.95			190	220
May-05	0.044	0.039	0.041	4.28	4.1	4.1	8.49	3	3	7.1	7.5	6.02	1	0.5	0.032			225	195
Jun-05	0.04	0.046	0.05	5.16	12.5	15	8.61	9.1	11	7.2	7.5	8.56	1	0.5	0.058			205	150
Jul-05	0.05	0.047	0.05	5.13	4.85	7.7	8.34	5.2	8.4	7.1	7.5	7.97	1	0.5	0.0635			200	150
Aug-05	0.05	0.051	0.053	5.08	4.45	6.9	8.05	4.6	7.2	7.1	7.5	1	5	0.8	0.425			140	117
Sep-05	0.05	0.051	0.051	7.15	32	32	7.58	2	2	7.3	7.6	1	1	0.5	1.3			240	410
Oct-05	0.051	0.053	0.054	6.75	2	2	7.25	3.3	6.4	7.2	7.4	1.19	3.5	0.5	6.3			110	112
Dec-05	0.044	0.045	0.041	7	2	2	5	2	2	7	7.3	5.1	1	0.8	27			175	130
Jan-06	0.044	0.055	0.082	6.61	2.05	2.1	5.1	6.5	11	7.3	7.6	4.78	1	0.5	0.035			145	155
Feb-06	0.052	0.070	0.087	6.12	2	2	5.38	6.9	10	7.1	7.4	1.88	13.5	0.5	2.7			155	112
Mar-06	0.051	0.072	0.046	5.8	2	2	5.43	6.1	7	7.1	7.4	12.5	1	0.5	2.88			130	142
Apr-06	0.054	0.060	0.046	5.88	2	2	4.64	1.5	2	7.2	7.3	2.5	1.5	0.5	0.398			110	74
May-06	0.053	0.046	0.046	5.64	2.85	3.3	5.48	15.6	24	7.1	7.4	1.5	2	0.5	0.0835			115	71
Jun-06	0.052	0.043	0.038	5.47	3.55	3.6	5.95	11.7	15	7.2	7.3	1.65	3.5	0.5	0.12			192	85
Jul-06	0.052	0.044	0.049	5.26	2.85	3.3	5.88	5.1	5.2	7.2	7.3	1.6	1	0.5	0.417			120	80
Sep-06	0.062	0.053	0.073	4.83	2	2.1	6.46	11.8	15	7	7.3	1	1	0.5	1.29			91.5	1150
Oct-06	0.061	0.060	0.057	4.61	2.02	2.04	6.23	3.5	3.6	7	7.2	1	1	0.5	2.03			151.5	110.8
Nov-06	0.059	0.057	0.041	4.41	2	2	6.27	6.65	10.3	6.9	7.3	1.1	2.5	0.5	4.76			312	351
Dec-06	0.057	0.043	0.032	4.29	2.85	2.87	6.01	3	3.2	7	7.3	1	1	0.5	1.27			320	467
Jan-07	0.055	0.035	0.032	4.27	4.04	6.09	6.33	10.2	14	6.8	7.2	1	1	0.5	0.587			242	251
Feb-07	0.053	0.031	0.028	4.17	2.98	3.18	7.41	20.4	30	7	7.2	1	1	0.7	0.0814			256	203
Mar-07	0.051	0.029	0.027	4.33	6.37	9.99	7.76	12.07	18.4	7	7.3	1	1	0.5	0.01			237	158
Apr-07	0.05	0.031	0.039	4.36	4.73	NO	7.5	4.4	NO	7	7.4	1	1	0.5	0.0691			224	196
						DATA			DAT										
									A										
May-07	0.051	0.044	0.066	4.2	2.36	2.72	7.24	4.2	5.2	7.1	7.4	1	1	0.5	0.035			270	299
Jun-07	0.052	0.057	0.066	4.47	3.51	3.51	7.27	7.75	10	7	7.5	50	225	0.5	0.3145			221	256
Jul-07	0.051	0.060	0.049	4.28	2	2	7.03	4.25	4.25	7.1	7.4	1	1	0.5	1.23			266	219
Aug-07	0.049	0.067	0.087	4.1	2	2	7.11	8.09	9.67	7.1	7.5	1	1	0.5	0.42			401	299

	Flow An	Flow	Flow Mo	BOD An	BOD Mo	BOD	Tss An	TSS Mo	TSS	pH Min	pH	Fecal	Fecal	TRC	Nitrate	TN	TP	BOD	TSS
	Avg	3MADF	Avg	Avg	Avg	Max	Avg	Avg	Max		Max	An	Max					In	In
Sep-07	0.049	0.063	0.053	3.93	2	2	6.93	4.88	5.33	7.1	7.4	1	1	0.5	0.01			215	228
Oct-07	0.052	0.076	0.089	3.79	2.19	2.38	4.81	4	6.25	7.1	7.4	1	1	0.5	0.562			242	327
Nov-07	0.053	0.068	0.063	3.65	2	2	4.7	3.4	4.8	7.2	7.4	1	1	0.5	1.695			325	420
Dec-07	0.052	0.067	0.05	3.52	2.05	2.11	4.17	3.87	4	7.2	7.6	1	1.5	0.5	0.0313			326	375
Jan-08	0.05	0.049	0.033	3.49	3.18	4.37	4.18	5.62	6.5	7.2	7.8	1	4.5	0.5	0.463			6.37	3.14
Feb-08	0.05	0.038	0.03	3.37	2	2	4.79	11	12	7.3	7.5	1	1	0.5	0.0235			242	202
Mar-08	0.046	0.031	0.03	3.26	2	2	4.98	7.72	7.75	7.2	7.5	1	1	0.5	0.0225			372	264
Apr-08	0.044	0.030	0.031	3.16	2	2	5.52	12.1	12.3	7.3	7.5	1	1	0.5	0.153			251	313
May-08	0.044	0.031	0.031	3.23	2.95	5.9	5.94	17.5	20.8	7.2	7.5	1	1	0.5	0.057			217	228
Jun-08	0.044	0.036	0.047	3.15	2.2	2.41	6.14	8.55	12.3	7.2	7.5	1	1	0.5	0.01			191	246
Jul-08	0.044	0.037	0.034	3.1	2.25	2.5	8.41	5.9	6.8	7.2	7.5	1	1.5	0.8	0.054			175	70
Aug-08	0.045	0.047	0.061	3.06	2.7	3.4	8.16	5.25	5.5	7	7.4	1.1	3.5	0.8	0.296			175	180
Sep-08	0.043	0.041	0.029	3.08	3.6	3.6	7.9	5	5	7	7.5	1	2	0.5	0.057			250	630
Oct-08	0.041	0.038	0.025	3.07	3.05	6.1	7.67	5	5	7.2	7.4	1.1	2.5	0.5	0.0415			215	185
Nov-08	0.04	0.029	0.033	3.35	6.75	10.1	7.52	5.75	6.5	7.1	7.5	1	2	0.8	5.036			235	284
Dec-08	0.039	0.031	0.034	3.56	6.2	7.1	7.66	9.4	11	7.2	7.6	1	1	0.5	0.023			220	845
Jan-09	0.038	0.034	0.036	3.74	5.95	6.4	7.57	6.5	7	7.4	7.6	3.9	50	0.5	0.116			295	330
Feb-09	0.038	0.036	0.039	3.88	5.6	5.7	7.49	6.6	6.7	7.3	7.6	3.6	1	0.5	0.375			270	132.5
Mar-09	0.038	0.038	0.038	4.27	9.05	9.6	7.65	9.65	10	7.2	7.5	3.4	1.5	0.5	0.0915			260	255
Apr-09	0.038	0.039	0.041	4.75	10	11	9.86	12.5	12.5	7.3	7.5	2	2	0.5	0.0765			335	240
May-09	0.038	0.040	0.04	4.69	4	6	9.92	10.75	16	7.3	7.4	1	2	0.5	0.063			195	315
Jun-09	0.038	0.040	0.038	4.76	5.65	6.9	9.84	8.9	9.3	7.2	7.4	1	1.5	1	0.08			265	215
Jul-09	0.038	0.039	0.038	4.92	6.85	6.6	9.85	10	15	7.2	7.4	5	60.5	1	0.089			270	215
Aug-09	0.038	0.037	0.036	4.71	2.25	2.3	9.49	5.25	5.5	7.2	7.4	2	2	0.8	0.226			185	230
Sep-09	0.039	0.040	0.047	4.58	3.05	4.1	9.18	5.5	6	7.2	7.3	2	2	1	0.425			258	229
Oct-09	0.038	0.039	0.034	4.38	2.05	2.1	9.47	13	8	7.2	7.4	2	2.5	0.5	0.214			174	195.5
Nov-09	0.038	0.042	0.044	4.3	3.35	4.1	9.16	5.5	6	7.2	7.4	1	1	0.8	2.03			154	145
Dec-09	0.038	0.038	0.035	4.17	2.65	3.0U	8.84	5.0U	5.0U	7.2	7.4	1	1.0U	0.8	0.585			225	165
Jan-10	0.038	0.038	0.036	4.27	5.5	7.5	8.54	5.0U	5.0U	7.2	7.3	1.0U	1.0U	1.5	2.35			245	250
Feb-10	0.037	0.032	0.025	4.18	3.15	3.6	9.49	21	32	7.2	7.3	1.0U	1.0U	0.5	0.18			274.5	205
Mar-10	0.037	0.029	0.026	4.28	5.6	6.9	9.25	6.45	6.9	7.1	7.3	1	1	0.5	0.225			330	254
Apr-10	0.036	0.024	0.022	4.28	4.4	5.8	9.24	6.25	7.5	7.2	7.4	1	no data	0.5	0.165			300	2106
May-10	0.035	0.025	0.026	4.16	2.8	2.8	9.37	11	12	7.3	7.5	1	no data	0.5	0.31			287	395
Jun-10	0.034	0.025	0.026	4.02	2.4	2.4	9.03	5	5	7.1	7.3	1	no data	0.5	18			292	450
Jul-10	0.035	0.030	0.037	4.08	4.8	5.3	8.72	5	5	7.2	7.3	1	1	0.5	2.92			177	65
Aug-10	0.034	0.031	0.03	4.01	3.2	3.7	8.64	7.75	8	7.2	7.3	1	1	0.5	0.562			212	166
Sep-10	0.033	0.030	0.023	4.04	4.4	4.9	8.43	6	7	7.1	7.3	1	no data	0.5	0.52			192	198

	Flow An	Flow	Flow Mo	BOD An	BOD Mo	BOD	Tss An	TSS Mo	TSS	pH Min	pH	Fecal	Fecal	TRC	Nitrate	TN	TP	BOD	TSS
	Avg	3MADF	Avg	Avg	Avg	Max	Avg	Avg	Max		Max	An	Max					In	In
Nov-13	0.038	0.037	0.038	2.55	2	2	5.35	6.4	6.4	7.1	7.2	1	1	0.5	9.1	29	DNP		
Dec-13	0.038	0.038	0.038	2.81	6	6	5.52	7.6	7.6	7	7.2	1	1	0.5	0.056	25	2.2		
Jan-14	0.039	0.038	0.039	2.74	2	2	5.46	4.8	4.8	7	7.2	1	1	0.5	0.019	14	2.4		
Feb-14	0.039	0.039	0.039	2.68	2	2	5.88	11	11	7.1	7.1	1	1	1	0.36	34	4.3		
Mar-14	0.031	0.021	0.021	2.62	2	2	5.95	6.8	6.8	7.1	7.2	1	1	0.5	0.072	38	5.1		
Apr-14	0.03	0.027	0.021	2.57	2	2	6.2	9.2	9.2	7.1	7.2	1	1	0.5	0.97	42	5.3		
May-14	0.022	0.024	0.031	2.52	2	2	2.52	5.2	5.2	7.1	7.1	1	1	0.5	5.8	32	5.5		
Jun-14	0.023	0.022	0.023	2.45	2	2	7.6	26	26	7	7.1	1	1	0.5	0.025	43	4.5		
Jul-14	0.032	0.037	0.032	2.48	2	2	16.9	22	22	7.1	7.1	1	1	0.5	0.077	38	4.5		
Aug-14	0.032	0.026	0.032	2.44	2	2	15.8	5	5	7.1	7.4	1	1	1	0.032	32	4.2		
Sep-14	0.033	0.032	0.033	2.4	2	2	15.1	5.6	5.6	7	7.2	1	1	0.5	19	20	2.8		
Oct-14	0.037	0.037	0.034	2.37	2	2	14.5	8.4	8.4	7.1	7.1	1	1	0.8	0.065	18	5.8		
11-2014	0.034	0.037	0.034	2.34	2	2	13.7	5	5	7.1	7.3	1	1	0.5	2.9	12	3.6		
Dec-14	0.036	0.044	0.06	2.31	2	2	13.04	5.2	5.2	7.1	7.5	1	1	0.5	0.18	16	1.1		
Jan-15	0.037	0.049	0.054	2.28	2	2	12.42	5	5	7.3	7.5	1	1	0.8		26	0.76		
Feb-15	0.038	0.058	0.059	2.25	2	2	11.86	5.2	5.2	7.2	7.3	1	1	0.5		9.5	0.79		
Mar-15	0.038	0.051	0.042	2.23	2	2	11.32	4.9	4.9	7.2	7.3	1	1	0.5		33	7.4		
May-15	0.038	0.039	0.022	2.19	2	2	10.95	6.9	6.9	7.2	7.2	1	1	0.5	0	30	0		
Jul-15	0.037	0.032	0.041	2.16	2	2	9.92	5.9	5.9	7.2	7.4	1	1	0.8	0	37	0		
Oct-15	0.039	0.044	0.052	2.11	2	2	8.92	6.1	6.1	7.1	7.2	1	1	0.5	0	8	0		
Nov-15	0.04	0.045	0.043	2.1	2	2	9.3	14	14	7	7.2	1	1	0.8	0	43	0		
Dec-15	0.039	0.040	0.027	2.09	2	2	8.81	3	3	7	7.1	1	1	0.5	1.9	3.2	5.1		
Jan-16	0.039	0.036	0.038	2.08	2	2	8.69	7.3	7.3	7.1	7.2	1	1	0.5	5.6	10	4.8		
Feb-16	0.039	0.035	0.041	2.07	2	2	8.29	3.5	3.5	7.1	7.2	1	1	0.8	0.031	10	2.2		
Mar-16	0.045	0.041	0.045	2.06	2	2	7.91	3.4	3.4	7.1	7.1	1	1	0.5	0.1	13	1.3		
Apr-16	0.041	0.046	0.052	2.05	2	2	7.4	1.4	1.4	7	7.1	1	1	0.8	0.01	11	4.8		
May-16	0.043	0.050	0.052	2.04	2	2	7.15	4.2	4.2	7	7	1	1	0.5	1.3	3.9	4.2		
Jun-16	0.042	0.044	0.028	2.03	2	2	7.29	9	9	7	7.1	1	1	0.5	1.5	9.1	11		
Jul-16	0.04	0.037	0.032	2.02	2	2	9.07	10	10	7	7.1	1	1	0.5	0.97	9.1	1.3		
Aug-16	0.024	0.028	0.024	2.01	2	2	8.59	2.9	2.9	7.1	7.1	1	1	0.5	8.6	16	6.1		
Sep-16	0.041	0.037	0.055	2	2	2	8.28	4.6	4.6	7.1	7.1	1	1	0.5	0.012	2.7	0.41		
Oct-16	0.042	0.047	0.062	2	2	2	8.11	6.1	6.1	7.1	7.2	1	1	0.5	0.49	1.4	1.2		
Nov-16	0.042	0.055	0.035	2	2	2	7.74	3.4	3.4	7.1	7.1	1	1	0.5	0.22	3.4	3.5		
Dec-16	0.041	0.043	0.032	2	2	2	7.39	3.2	3.2	7	7.1	1	2	0.5	0.52	1.9	2.4	440	310
Jan-17	0.041	0.033	0.033	2	2	2	6.99	2.3	2.3	7	7.1	1	1	0.5	0.094	2.9	0.64		
Feb-17	0.039	0.028	0.02	2	2	2	7.16	4.5	4.5	7	7.1	1	1	0.5	0.026	8.9	4.4		
Mar-17	0.038	0.025	0.022	2	2	2	6.77	2.2	2.2	7	7.1	1	1	0.5	0.018	4.9	1.1		

	Flow An	Flow	Flow Mo	BOD An	BOD Mo	BOD	Tss An	TSS Mo	TSS	pH	Min	pH	Fecal	Fecal	TRC	Nitrate	TN	TP	BOD	TSS
	Avg	3MADF	Avg	Avg	Avg	Max	Avg	Avg	Max		Max	Max	An	Max					In	In
Apr-17	0.037	0.022	0.024	2	2	2	6.44	2.6	2.6	7	7.1	1	1	0.5	0.023	6.7	1.5			
May-17	0.037	0.024	0.026	2	2	2	6.04	1.3	1.3	7	7.2	1	1	0.5	0.029	4.1	1.5			
Jun-17	0.031	0.027	0.031	2	2	2	5.79	2.8	2.8	7	7.1	1	1	0.8	0.35	11	8.6			
Jul-17	0.03275	0.029	0.029	5.07	42	42	6.49	15	15	7.1	7.3	1	OTH	0.9	26	26	1.3			
Aug-17	0.035	0.031	0.032	4.83	2	2	6.54	7.2	7.2	7.1	7.3	1	3	0.5	9.7	10	3.7			
Sep-17	0.036	0.036	0.047	4.61	2	2	6.19	2.1	2.1	7.1	7.3	1	1	0.5	0.88	2.6	9.8			
Oct-17	0.04	0.063	0.107	4.4	2	2	5.83	1.6	1.6	7.1	7.2	2	2.5	0.5	0.54	1.8	3.3			
Nov-17	0.04	0.059	0.023	4.21	2	2	5.48	1.3	1.3	7.2	7.2	3	17	1	0.22	1.5	4.9			
Dec-17	0.039	0.049	0.018	4.04	2	2	5.15	1.3	1.3	7	7.1	4	21	0.5	0.72	1.9	4.7	320		250
Jan-18	0.037	0.021	0.021	3.88	2	2	4.89	1.8	1.8	7	7.2	5	13	0.8	1.8	3.8	5.2			
Feb-18	0.037	0.024	0.035	3.73	2	2	4.61	1.3	1.3	7.1	7.2	7	38	0.5	0.021	3.1	4.8			
Mar-18	0.038	0.037	0.038	3.59	2	2	4.41	2.5	2.5	7.1	7.2	6	1	0.5	0.05	6.2	4.3			
Apr-18	0.037	0.036	0.032	3.46	2	2	4.27	2.7	2.7	7.1	7.1	7	14	0.5	0.95	14	4.2			
May-18	0.038	0.039	0.042	3.34	2	2	4.29	4.6	4.6	7.1	7.4	4	1	1	0.079	40	13			
Jun-18	0.042	0.054	0.084	3.23	2	2	4.42	6.1	6.1	7	7.3	1	6	0.5	16	20	4.7			
Jul-18	0.043	0.059	0.052	3.13	2	2	4.26	2.4	2.4	7.1	7.3	1	1	1	4.5	17	4.5			
Aug-18	0.041	0.053	0.025	3.04	2	2	4.07	2	2	7.1	7.6	1	1	1.1	4.4	4.9	1.8			
Sep-18	0.04	0.035	0.028	2.96	2	2	DNP	DNP	DNP	7.2	7.4	32	380	0.6	0.01	12	1.4			
Oct-18	0.04	0.031	0.039	2.88	2	2	4.01	2.5	2.5	7.2	7.4	2.5	1	0.5	0.59	0.59	0.23			
Nov-18	0.039	0.035	0.037	2.81	2	2	2.42	1.5	1.5	7.1	7.2	1	1	0.8	11	12	1.5			
Dec-18	0.039	0.039	0.039	2.74	2	2	2.34	1.4	1.4	7.1	7.2	1	1	0.8	8.9	9.5	1.4			
Jan-19	0.039	0.038	0.037	2.68	2	2	2.68	6.8	6.8	7	7.1	1	1	0.5	1.9	7.9	0.41			
Feb-19	0.04	0.041	0.046	2.62	2	2	4.24	23	23	7	7.2	1	1	1	3.4	3.5	0.57			
Mar-19	0.038	0.040	0.038	2.57	2	2	4.56	8.5	8.5	7.1	7.3	1	1	0.5	6.6	7.1	1.6			
Apr-19	0.041	0.042	0.042	2.52	2	2	4.85	8.4	8.4	7.1	7.3	1	1	0.5	0.64	6.1	0.38			
May-19	0.042	0.043	0.054	2.48	2	2	4.76	3.8	3.8	7	7.2	1	1	0.5	0.19	0.36	0.52			
Jun-19	0.043	0.042	0.05	2.44	2	2	4.84	5.9	5.9	7	7.2	1	1	0.8	1.1	5.1	0.63			
Jul-19	0.043	0.052	0.051	2.4	2	2	4.62	2	2	7	7.2	1	1	0.5	8.3	9.2	1.3			
Aug-19	0.044	0.053	0.058	2.36	2	2	4.49	3	3	7	7.2	1	1	0.7	6.1	8.9	2			
Sep-19	0.044	0.046	0.042	2.33	2	2	4.47	4.3	4.3	7	7.1	2	14	0.5	0.98	4.3	0.69			
Oct-19	0.045	0.049	0.046	2.21	2	2	4.43	4	4	7	7.4	1	1	0.5	0.019	3.9	1			
Nov-19	0.044	0.040	0.031	2.19	2	2	4.19	1.4	1.84	7	7.4	1	1	1	0.77	2.8	0.96	96		200

5.0 Evaluation of Operation and Maintenance Program

5.1 Record Drawings

A copy of the record drawings of the WWTF was not available for review. For operational purposes, sketches and information in this report and the O&M manual should suffice.

5.2 Operation and Maintenance Manual

A copy of an operations and maintenance manual was not found on site. The engineer however has supplied a replacement document.

5.3 Log Book

It was observed that the operator has a log book and appears to record appropriate information about his O&M activities in the book.

5.4 General

Discharge Monitoring Reports

Copies of discharge monitoring reports were readily available to review past plant performance. Data used in this report was retrieved electronically from the FDEP.

Staffing

The prior operating permit required the following with respect to operator attendance:

Class C, 1/2 hour per day, 5 days per week and a weekend visit.

A facility operator, Jerry Padrick, C-7051 of Cocoa, is retained by the permittee to meet this requirement.

Permit

A copy of the current permit was available for review.

6.0 Collection System Evaluation

A reconnaissance of the collection system was performed.

The existing collection system serves domestic wastewater connections. There are no industrial wastewater dischargers.

Odors or other indicators of septicity were not noted.

7.0 Identification of Problems

7.1 Capacity Related Problems

Please refer the accompanying Capacity Analysis Report. This facility does not appear to be suffering operational problems due to limiting capacity.

7.2 Equipment Related Problems

As noted in section 2 of this report, the facility equipment was generally in fair and serviceable condition and should be expected to give adequate service to meet permit requirements with proper O&M practices for the duration of the next permit.

7.3 O&M Program Related Problems

The O&M program has generally been adequate to assure that effluent quality is generally within required discharge limits. There was an instance of an elevated BOD in July of 2017. This appears isolated, and not indicative of a recurring pattern.

7.4 Recommendations

The following recommendations are concluded based on this Capacity Analysis / Operations & Maintenance evaluation:

Continue to operate and maintain the treatment plant in accordance with applicable State and local requirements.

Appendix Monitor Well Data

<u>Monitor Well</u>	<u>Date</u>	<u>Parameter</u>	<u>Result</u>	<u>Std</u>	<u>Unit</u>	<u>Limit</u>
MWB-1	30-Jun-15	Chloride (as Cl)	9.3	Report	mg/L	Maximum
MWB-1	31-Dec-15	Chloride (as Cl)	4	Report	mg/L	Maximum
MWB-1	30-Jun-16	Chloride (as Cl)	27	Report	mg/L	Maximum
MWB-1	31-Dec-16	Chloride (as Cl)	ANC	Report	mg/L	Maximum
MWB-1	30-Jun-17	Chloride (as Cl)	9.8	Report	mg/L	Maximum
MWB-1	31-Dec-17	Chloride (as Cl)	16	Report	mg/L	Maximum
MWB-1	30-Jun-18	Chloride (as Cl)	16	Report	mg/L	Maximum
MWB-1	31-Dec-18	Chloride (as Cl)	18	Report	mg/L	Maximum
MWB-1	30-Jun-19	Chloride (as Cl)	12	Report	mg/L	Maximum
MWB-1	30-Jun-15	Coliform, Fecal	1	Report	#/100mL	Maximum
MWB-1	31-Dec-15	Coliform, Fecal	1	Report	#/100mL	Maximum
MWB-1	30-Jun-16	Coliform, Fecal	1	Report	#/100mL	Maximum
MWB-1	31-Dec-16	Coliform, Fecal	ANC	Report	#/100mL	Maximum
MWB-1	30-Jun-17	Coliform, Fecal	1	Report	#/100mL	Maximum
MWB-1	31-Dec-17	Coliform, Fecal	DNP	Report	#/100mL	Maximum
MWB-1	30-Jun-18	Coliform, Fecal	DNP	Report	#/100mL	Maximum
MWB-1	31-Dec-18	Coliform, Fecal	3.9	Report	#/100mL	Maximum
MWB-1	30-Jun-19	Coliform, Fecal	DNP	Report	#/100mL	Maximum
MWB-1	30-Jun-15	Nitrogen, Nitrate, Total (as N)	1	Report	mg/L	Maximum
MWB-1	31-Dec-15	Nitrogen, Nitrate, Total (as N)	0.011	Report	mg/L	Maximum
MWB-1	30-Jun-16	Nitrogen, Nitrate, Total (as N)	0.01	Report	mg/L	Maximum
MWB-1	31-Dec-16	Nitrogen, Nitrate, Total (as N)	ANC	Report	mg/L	Maximum
MWB-1	30-Jun-17	Nitrogen, Nitrate, Total (as N)	0.01	Report	mg/L	Maximum
MWB-1	31-Dec-17	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWB-1	30-Jun-18	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWB-1	31-Dec-18	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWB-1	30-Jun-19	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWB-1	30-Jun-15	pH	4.61	Report	s.u.	Maximum
MWB-1	31-Dec-15	pH	4.94	Report	s.u.	Maximum
MWB-1	30-Jun-16	pH	4.15	Report	s.u.	Maximum
MWB-1	31-Dec-16	pH	ANC	Report	s.u.	Maximum
MWB-1	30-Jun-17	pH	3.76	Report	s.u.	Maximum
MWB-1	31-Dec-17	pH	3.8	Report	s.u.	Maximum
MWB-1	30-Jun-18	pH	3.8	Report	s.u.	Maximum
MWB-1	31-Dec-18	pH	1.66	Report	s.u.	Maximum
MWB-1	30-Jun-19	pH	3.7	Report	s.u.	Maximum
MWB-1	30-Jun-15	Solids, Total Dissolved (TDS)	170	Report	mg/L	Maximum
MWB-1	31-Dec-15	Solids, Total Dissolved (TDS)	86	Report	mg/L	Maximum
MWB-1	30-Jun-16	Solids, Total Dissolved (TDS)	150	Report	mg/L	Maximum
MWB-1	31-Dec-16	Solids, Total Dissolved (TDS)	ANC	Report	mg/L	Maximum
MWB-1	30-Jun-17	Solids, Total Dissolved (TDS)	58	Report	mg/L	Maximum
MWB-1	31-Dec-17	Solids, Total Dissolved (TDS)	150	Report	mg/L	Maximum
MWB-1	30-Jun-18	Solids, Total Dissolved (TDS)	110	Report	mg/L	Maximum
MWB-1	31-Dec-18	Solids, Total Dissolved (TDS)	130	Report	mg/L	Maximum
MWB-1	30-Jun-19	Solids, Total Dissolved (TDS)	100	Report	mg/L	Maximum
MWB-1	30-Jun-15	Turbidity	3.95	Report	NTU	Maximum
MWB-1	31-Dec-15	Turbidity	11	Report	NTU	Maximum
MWB-1	30-Jun-16	Turbidity	3.62	Report	NTU	Maximum
MWB-1	31-Dec-16	Turbidity	ANC	Report	NTU	Maximum
MWB-1	30-Jun-17	Turbidity	12.9	Report	NTU	Maximum

Monitor Well	Date	Parameter	Result	Std	Unit	Limit
MWB-1	31-Dec-17	Turbidity	1.5	Report	NTU	Maximum
MWB-1	30-Jun-18	Turbidity	3.8	Report	NTU	Maximum
MWB-1	31-Dec-18	Turbidity	1	Report	NTU	Maximum
MWB-1	30-Jun-19	Turbidity	1.9	Report	NTU	Maximum
MWB-1	30-Jun-15	Water Level Relative to NGVD	27.39	Report	ft	Maximum
MWB-1	31-Dec-15	Water Level Relative to NGVD	29.29	Report	ft	Maximum
MWB-1	30-Jun-16	Water Level Relative to NGVD	29.29	Report	ft	Maximum
MWB-1	31-Dec-16	Water Level Relative to NGVD	ANC	Report	ft	Maximum
MWB-1	30-Jun-17	Water Level Relative to NGVD	30.82	Report	ft	Maximum
MWB-1	31-Dec-17	Water Level Relative to NGVD	7.59	Report	ft	Maximum
MWB-1	30-Jun-18	Water Level Relative to NGVD	7.31	Report	ft	Maximum
MWB-1	31-Dec-18	Water Level Relative to NGVD	6.13	Report	ft	Maximum
MWB-1	30-Jun-19	Water Level Relative to NGVD	5.45	Report	ft	Maximum
MWC-3	30-Jun-15	Chloride (as Cl)	40	250.0	mg/L	Maximum
MWC-3	31-Dec-15	Chloride (as Cl)	25	250.0	mg/L	Maximum
MWC-3	30-Jun-16	Chloride (as Cl)	30	250.0	mg/L	Maximum
MWC-3	31-Dec-16	Chloride (as Cl)	110	250.0	mg/L	Maximum
MWC-3	30-Jun-17	Chloride (as Cl)	69	250.0	mg/L	Maximum
MWC-3	31-Dec-17	Chloride (as Cl)	14	250.0	mg/L	Maximum
MWC-3	30-Jun-18	Chloride (as Cl)	11	250.0	mg/L	Maximum
MWC-3	31-Dec-18	Chloride (as Cl)	64	250.0	mg/L	Maximum
MWC-3	30-Jun-19	Chloride (as Cl)	70	250.0	mg/L	Maximum
MWC-3	30-Jun-15	Coliform, Fecal	1	4.0	#/100mL	Maximum
MWC-3	31-Dec-15	Coliform, Fecal	1	4.0	#/100mL	Maximum
MWC-3	30-Jun-16	Coliform, Fecal	1	4.0	#/100mL	Maximum
MWC-3	31-Dec-16	Coliform, Fecal	1	4.0	#/100mL	Maximum
MWC-3	30-Jun-17	Coliform, Fecal	1	4.0	#/100mL	Maximum
MWC-3	31-Dec-17	Coliform, Fecal	DNP	4.0	#/100mL	Maximum
MWC-3	30-Jun-18	Coliform, Fecal	DNP	4.0	#/100mL	Maximum
MWC-3	31-Dec-18	Coliform, Fecal	6.4	4.0	#/100mL	Maximum
MWC-3	30-Jun-19	Coliform, Fecal	DNP	4.0	#/100mL	Maximum
MWC-3	30-Jun-15	Nitrogen, Nitrate, Total (as N)	0.1	10.0	mg/L	Maximum
MWC-3	31-Dec-15	Nitrogen, Nitrate, Total (as N)	0.01	10.0	mg/L	Maximum
MWC-3	30-Jun-16	Nitrogen, Nitrate, Total (as N)	0.01	10.0	mg/L	Maximum
MWC-3	31-Dec-16	Nitrogen, Nitrate, Total (as N)	0.01	10.0	mg/L	Maximum
MWC-3	30-Jun-17	Nitrogen, Nitrate, Total (as N)	0.01	10.0	mg/L	Maximum
MWC-3	31-Dec-17	Nitrogen, Nitrate, Total (as N)	0.04	< 10.0	mg/L	Maximum
MWC-3	30-Jun-18	Nitrogen, Nitrate, Total (as N)	0.04	< 10.0	mg/L	Maximum
MWC-3	31-Dec-18	Nitrogen, Nitrate, Total (as N)	0.04	< 10.0	mg/L	Maximum
MWC-3	30-Jun-19	Nitrogen, Nitrate, Total (as N)	0.04	< 10.0	mg/L	Maximum
MWC-3	30-Jun-15	Solids, Total Dissolved (TDS)	240	500.0	mg/L	Maximum
MWC-3	31-Dec-15	Solids, Total Dissolved (TDS)	280	500.0	mg/L	Maximum
MWC-3	30-Jun-16	Solids, Total Dissolved (TDS)	190	500.0	mg/L	Maximum
MWC-3	31-Dec-16	Solids, Total Dissolved (TDS)	490	500.0	mg/L	Maximum
MWC-3	30-Jun-17	Solids, Total Dissolved (TDS)	330	500.0	mg/L	Maximum
MWC-3	31-Dec-17	Solids, Total Dissolved (TDS)	240	500.0	mg/L	Maximum
MWC-3	30-Jun-18	Solids, Total Dissolved (TDS)	150	500.0	mg/L	Maximum
MWC-3	31-Dec-18	Solids, Total Dissolved (TDS)	190	500.0	mg/L	Maximum
MWC-3	30-Jun-19	Solids, Total Dissolved (TDS)	290	500.0	mg/L	Maximum
MWC-3	30-Jun-15	Turbidity	1.51	Report	NTU	Maximum
MWC-3	31-Dec-15	Turbidity	3.85	Report	NTU	Maximum
MWC-3	30-Jun-16	Turbidity	7.8	Report	NTU	Maximum
MWC-3	31-Dec-16	Turbidity	4.5	Report	NTU	Maximum

<u>Monitor Well</u>	<u>Date</u>	<u>Parameter</u>	<u>Result</u>	<u>Std</u>	<u>Unit</u>	<u>Limit</u>
MWC-3	30-Jun-17	Turbidity	2.43	Report	NTU	Maximum
MWC-3	31-Dec-17	Turbidity	1.7	Report	NTU	Maximum
MWC-3	30-Jun-18	Turbidity	3.5	Report	NTU	Maximum
MWC-3	31-Dec-18	Turbidity	0.23	Report	NTU	Maximum
MWC-3	30-Jun-19	Turbidity	23	Report	NTU	Maximum
MWC-3	30-Jun-15	Water Level Relative to NGVD	30.87	Report	ft	Maximum
MWC-3	31-Dec-15	Water Level Relative to NGVD	31.43	Report	ft	Maximum
MWC-3	30-Jun-16	Water Level Relative to NGVD	31.29	Report	ft	Maximum
MWC-3	31-Dec-16	Water Level Relative to NGVD	31.36	Report	ft	Maximum
MWC-3	30-Jun-17	Water Level Relative to NGVD	32.04	Report	ft	Maximum
MWC-3	31-Dec-17	Water Level Relative to NGVD	4.15	Report	ft	Maximum
MWC-3	30-Jun-18	Water Level Relative to NGVD	4.57	Report	ft	Maximum
MWC-3	31-Dec-18	Water Level Relative to NGVD	3.52	Report	ft	Maximum
MWC-3	30-Jun-19	Water Level Relative to NGVD	3.63	Report	ft	Maximum
MWI-2	30-Jun-15	Chloride (as Cl)	50	Report	mg/L	Maximum
MWI-2	31-Dec-15	Chloride (as Cl)	55	Report	mg/L	Maximum
MWI-2	30-Jun-16	Chloride (as Cl)	110	Report	mg/L	Maximum
MWI-2	31-Dec-16	Chloride (as Cl)	89	Report	mg/L	Maximum
MWI-2	30-Jun-17	Chloride (as Cl)	86	Report	mg/L	Maximum
MWI-2	31-Dec-17	Chloride (as Cl)	21	Report	mg/L	Maximum
MWI-2	30-Jun-18	Chloride (as Cl)	25	Report	mg/L	Maximum
MWI-2	31-Dec-18	Chloride (as Cl)	53	Report	mg/L	Maximum
MWI-2	30-Jun-19	Chloride (as Cl)	44	Report	mg/L	Maximum
MWI-2	30-Jun-15	Coliform, Fecal	1	Report	#/100mL	Maximum
MWI-2	31-Dec-15	Coliform, Fecal	1	Report	#/100mL	Maximum
MWI-2	30-Jun-16	Coliform, Fecal	1	Report	#/100mL	Maximum
MWI-2	31-Dec-16	Coliform, Fecal	1	Report	#/100mL	Maximum
MWI-2	30-Jun-17	Coliform, Fecal	1	Report	#/100mL	Maximum
MWI-2	31-Dec-17	Coliform, Fecal	DNP	Report	#/100mL	Maximum
MWI-2	30-Jun-18	Coliform, Fecal	DNP	Report	#/100mL	Maximum
MWI-2	31-Dec-18	Coliform, Fecal	5.9	Report	#/100mL	Maximum
MWI-2	30-Jun-19	Coliform, Fecal	DNP	Report	#/100mL	Maximum
MWI-2	30-Jun-15	Nitrogen, Nitrate, Total (as N)	0.10	Report	mg/L	Maximum
MWI-2	31-Dec-15	Nitrogen, Nitrate, Total (as N)	0.086	Report	mg/L	Maximum
MWI-2	30-Jun-16	Nitrogen, Nitrate, Total (as N)	0.011	Report	mg/L	Maximum
MWI-2	31-Dec-16	Nitrogen, Nitrate, Total (as N)	0.01	Report	mg/L	Maximum
MWI-2	30-Jun-17	Nitrogen, Nitrate, Total (as N)	0.01	Report	mg/L	Maximum
MWI-2	31-Dec-17	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWI-2	30-Jun-18	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWI-2	31-Dec-18	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWI-2	30-Jun-19	Nitrogen, Nitrate, Total (as N)	0.04	< Report	mg/L	Maximum
MWI-2	30-Jun-15	pH	5.66	Report	s.u.	Maximum
MWI-2	31-Dec-15	pH	5.8	Report	s.u.	Maximum
MWI-2	30-Jun-16	pH	5.59	Report	s.u.	Maximum
MWI-2	31-Dec-16	pH	5.53	Report	s.u.	Maximum
MWI-2	30-Jun-17	pH	5.57	Report	s.u.	Maximum
MWI-2	31-Dec-17	pH	7.5	Report	s.u.	Maximum
MWI-2	30-Jun-18	pH	5.9	Report	s.u.	Maximum
MWI-2	31-Dec-18	pH	2.22	Report	s.u.	Maximum
MWI-2	30-Jun-19	pH	6.2	Report	s.u.	Maximum
MWI-2	30-Jun-15	Solids, Total Dissolved (TDS)	3.1	Report	mg/L	Maximum
MWI-2	31-Dec-15	Solids, Total Dissolved (TDS)	250	Report	mg/L	Maximum
MWI-2	30-Jun-16	Solids, Total Dissolved (TDS)	340	Report	mg/L	Maximum

<u>Monitor Well</u>	<u>Date</u>	<u>Parameter</u>	<u>Result</u>	<u>Std</u>	<u>Unit</u>	<u>Limit</u>
MWI-2	31-Dec-16	Solids, Total Dissolved (TDS)	350	Report	mg/L	Maximum
MWI-2	30-Jun-17	Solids, Total Dissolved (TDS)	330	Report	mg/L	Maximum
MWI-2	31-Dec-17	Solids, Total Dissolved (TDS)	160	Report	mg/L	Maximum
MWI-2	30-Jun-18	Solids, Total Dissolved (TDS)	150	Report	mg/L	Maximum
MWI-2	31-Dec-18	Solids, Total Dissolved (TDS)	170	Report	mg/L	Maximum
MWI-2	30-Jun-19	Solids, Total Dissolved (TDS)	200	Report	mg/L	Maximum
MWI-2	30-Jun-15	Turbidity	4.28	Report	NTU	Maximum
MWI-2	31-Dec-15	Turbidity	41	Report	NTU	Maximum
MWI-2	30-Jun-16	Turbidity	7.8	Report	NTU	Maximum
MWI-2	31-Dec-16	Turbidity	39	Report	NTU	Maximum
MWI-2	30-Jun-17	Turbidity	7.28	Report	NTU	Maximum
MWI-2	31-Dec-17	Turbidity	15	Report	NTU	Maximum
MWI-2	30-Jun-18	Turbidity	8.2	Report	NTU	Maximum
MWI-2	31-Dec-18	Turbidity	3.6	Report	NTU	Maximum
MWI-2	30-Jun-19	Turbidity	4.8	Report	NTU	Maximum
MWI-2	30-Jun-15	Water Level Relative to NGVD	28.31	Report	ft	Maximum
MWI-2	31-Dec-15	Water Level Relative to NGVD	30.38	Report	ft	Maximum
MWI-2	30-Jun-16	Water Level Relative to NGVD	30.66	Report	ft	Maximum
MWI-2	31-Dec-16	Water Level Relative to NGVD	30.53	Report	ft	Maximum
MWI-2	30-Jun-17	Water Level Relative to NGVD	31.84	Report	ft	Maximum
MWI-2	31-Dec-17	Water Level Relative to NGVD	6.21	Report	ft	Maximum
MWI-2	30-Jun-18	Water Level Relative to NGVD	6.03	Report	ft	Maximum
MWI-2	31-Dec-18	Water Level Relative to NGVD	4.64	Report	ft	Maximum
MWI-2	30-Jun-19	Water Level Relative to NGVD	3.84	Report	ft	Maximum



WASTEWATER APPLICATION FORM 2A FOR A DOMESTIC WASTEWATER FACILITY PERMIT

Instructions for selected items are included in the "INSTRUCTIONS FOR FORM 2A". Refer to these instructions before filling out each item.

SECTION 1. APPLICANT AND FACILITY DESCRIPTION

1. Application Type

- New
- Substantial Modification
- Permit Renewal

2. Facility Type

- Wastewater Treatment
- Reuse or Disposal
- Limited Wet Weather Discharge
- Residuals/Septage Management

3. Treatment Facility Information

a. Name	Sun Lakes Estates WWTF	
b. Facility Identification Number	FLA010353	
c. Location	physical: 616 Emerald Lake Drive, Cocoa, FL	
Number and Street	mailing: 5600 US Hwy 1N	
City/State/Zip Code	Sharps, FL, 32927	
Telephone	321-639-1124	
Latitude	28-25-31.54	"N
Longitude	80-46-42.66	"W
Dates Coordinates Determined	unknown	
Method Used to Obtain Coordinates	FDEP Database	
d. Ownership Type	<ul style="list-style-type: none"> Municipal County State <input checked="" type="checkbox"/> Private 	

e. Contact

Name Thad Terry
 Title Owner
 Telephone 321-639-1124

f. Facility Mailing Address

Number and Street 5600 US Hwy 1N
 City/State/Zip Code Sharps, FL, 32927

g. Year Facility Began Operation 1984

4. Applicant or Authorized Representative

Legal Name Sun Lakes Homeowners Association
 Number and Street 5600 US Hwy 1N
 City/State/Zip Code Sharps
 Telephone 321-639-8440
 Contact Person Thad Terry
 Title Owner
 Telephone Number 321-639-1124

Is the applicant the owner or operator (or both) of the facility? Owner Operator

Indicate whether correspondence regarding this facility should be directed to the facility or the applicant.
 Facility Applicant

5. Project Name and Description

Sun Lakes Estates WWTF, providing chlorinated effluent to percolation evaporation ponds.
 Treatment consists of: flow equalization, aeration, final settling and sludge digestion, and disinfection

6. Municipalities or Areas Served

Name of Municipality or Area	Ownership	Population Served
Sun Lakes Estates	Private	206 mobile homes

Total mobile homes 206

7. Reclaimed Water Reuse and Effluent Disposal

Method of Reuse or Disposal	Number of Reuse or Disposal Points	Total Design Capacity (mgd)	Basis of Design Flow
Surface Waters - Excluding Ocean Outfalls and Wetlands (Rule 62-600.510, F.A.C.)			
Ocean Outfalls (Rule 62-600.520, F.A.C.)			
Wetlands (Rule 62-600.620, F.A.C.)			
Reuse of Reclaimed Water and Land Application (Rule 62-600.530, F.A.C.)	1	0.206 (limited to 0.099)	AADF
Ground Water Disposal by Underground Injection (Rule 62-600.540, F.A.C.)			
Other (Describe)			
Total	1	0.206 limited to 0.099	AADF

8. Flows to Another Wastewater Facility

- a. Does the facility discharge or transport treated or untreated wastewater to another treatment facility?
 Yes No
- b. If yes, describe the mean(s) by which the wastewater from the treatment facility is discharged or transported to the other treatment facility (e.g., collection/transmission system, reclaimed water distribution system)?

If transport is by a party other than the applicant, provide the following:

Transporter name:
 Mailing Address:

Contact person:
 Title:
 Telephone number:

- c. For each treatment facility that receives this discharge, provide the following:

Name:
 Mailing Address:

Contact person:
 Title:
 Telephone number:

NOTE: DISPOSAL SYSTEM HAS A PERMITTED CAPACITY OF 0.206 MGD, PLANT HAS PHYSICAL CAPACITY OF 0.135 MGD, LIMITED TO 0.099 mgd.

d. Facility Identification Number of Facility Which
Receives the Flow

e. Average Daily Flow Rate to the Receiving
Facility

_____ mgd

9. Residuals Use or Disposal

a. Amount of Residuals Generated by the Facility

9.7

dry tons/year

b. Does this facility receive residuals from another
facility for further treatment and disposal?

Yes No

c. Method of Residuals Use or Disposal

Method	Number of Sites or Number of Receiving Facilities	Dry Tons Used or Disposed per Year
Land Application (Chapter 62-640, F.A.C.)	0	0
Distribution and Marketing (Chapter 62-640, F.A.C.)		
Landfill Disposal (Chapter 62-701, F.A.C.)		
Incineration (Chapter 62-200 Series, F.A.C.)		
Transport to Another Treatment Facility	1	9.7
Other (Describe)		

Total

9.7

d. If residuals are transported to another facility
for landfill disposal, incineration, or treatment,
provide the facility name, Facility identification
number and address.

Name

Brevard County Regional

Facility Identification Number

FLA102695

Number and Street

3630 N Courtenay Pkwy

City/State/Zip Code

Merrit Island

County

Brevard

Telephone

3216332093

Treatment Processes Used by Receiving Facility

AS

10. Permits and Applications

a. Expiration Date of Current NPDES Permit _____

b. Expiration Date of Current DEP Permit _____

10/27/2020

Permit Number of Any Existing Environmental Permits

NPDES
UIC
RCRA

PSD
Other
Other

d. Orders and Notices

Type or Order or Notice	Issuing Agency	Date of Order or Notice
Notice or Violation		
Consent Order		
Administrative Order		
Other (Describe.)		

SECTION 2. TREATMENT FACILITY DESCRIPTION

1. Flow

a. Design Capacity

Current Design Capacity	(0.135, limit to 0.099) mgd
Proposed Incremental Design Capacity	+ 0 mgd
Proposed Total Design Capacity	0.099 mgd

b. Basis of Design Flow

- Annual Average Daily Flow
 Maximum Monthly Average Daily Flow
 Three-Month Average Daily Flow
 Other. If other, specify.

	Two Years Ago	Last Year	This Year	
c. Annual Average Daily Flow Rate	0.035	0.37	0.045	mgd
d. Maximum Daily Flow Rate	0.107	0.084	0.058	mgd

2. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	6.00-8.50	Standard Units		
CBOD ₅	20	mg/L	annual average	90
TSS	20	mg/L	annual average	90
TRC	0.5	mg/L	any sample	
Fecal Coliform	200	#//100 ML	annual average	
Nitrate	12	mg/L	any sample	

3. Disinfection Level Provided

- Low-level
 Basic
 Intermediate
 High-level
 High-level Alternative

If the facility disinfects by chlorination and the discharge is to surface waters, is dechlorination provided?

Yes No

4. Residuals Treatment

- a. Class of Residuals
- Class AA (Rule 62-640.850, F.A.C.)
Class A (Rule 62-640.600, F.A.C.)
Class B (Rule 62-640.600, F.A.C.)
 Other

If other, describe Aerobic digestion followed by transport to a BTF

- b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

Aerobic Digestion followed by transport to a BTF

- c. Which vector attraction reduction option is met for the sewage sludge at your facility?

- Option 1 (Minimum 38 percent reduction in volatile solids)
- Option 2 (Anaerobic process, with bench-scale demonstration)
- Option 3 (Aerobic process, with bench-scale demonstration)
- Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- Option 5 (Aerobic processes plus raised temperature)
- Option 6 (Raise pH to 12 and retain at 11.5)
- Option 7 (75 percent solids with no unstabilized solids)
- Option 8 (90 percent solids with unstabilized solids)
- Option 9 (Injection below land surface)
- Option 10 (Incorporation into soil within 6 hours)
- Option 11 (Covering active sewage sludge unit daily)
- None or unknown

- d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:

Aerobic Digestion followed by transport to a BTF

e. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen		% dry weight
Total Phosphorus		% dry weight
Total Potassium		% dry weight
Arsenic		mg/kg dry
Cadmium		mg/kg dry
Chromium		mg/kg dry
Copper		mg/kg dry
Lead		mg/kg dry
Mercury		mg/kg dry
Molybdenum		mg/kg dry
Nickel		mg/kg dry
Selenium		mg/kg dry
Zinc		mg/kg dry
pH		standard units
Total Solids		%
Other Parameters		

Date of Sample

5. Reliability Class

- Class I
- Class II
- Class III
- Other Equivalent Reliability

Older Plant predating rules, Class III Not required.

**SECTION 3. A. DISCHARGES TO SURFACE WATERS (including wetlands)
NOT APPLICABLE**

1. Discharge Serial Number and Name

Discharge Serial Number

2. Discharge Location

County
 Street or Description
 City or Town (if applicable)
 Zip Code
 Latitude
 Longitude
 Dates Coordinates Determined
 Method Used to Obtain Coordinates

 _____ ° ' "N
 _____ ° ' "W

3. Design Capacity of the Outfall

Current Design Capacity
 Proposed Incremental Design Capacity
 Proposed Total Design Capacity

_____ mgd
 + _____ mgd
 = _____ mgd

4. Basis of Design Flow

Annual Average Daily Flow
 Maximum Monthly Average Daily Flow
 Three-Month Average Daily Flow
 Other

If other, specify _____

5. Basis for Effluent Limitations

TBEL
 Level I QBEL
 Level II QBEL
 Other

If other, specify _____

Date Effluent Limitations Established _____

6. Description of Receiving Waters

a. Name of Receiving Water _____

b. Type of Receiving Waterbody
 Fresh
 Brackish or Marine

c. Classification of Receiving Waterbody
 Class I
 Class II
 Class III
 Class IV
 Class V

Is the receiving waterbody contiguous to,
 or identified as, an Outstanding Florida Water
 (OFW) or an Outstanding National Resource Water? Yes No

If yes, name and locate on a USGS map. _____

Does this facility discharge to a receiving water that is either in Indian Country or that is upstream from

(and eventually flow through) Indian Country? Yes No

d. Name of Watershed (if known)

United States Soil Conservation Service 14-digit Watershed Code (if known)

e. Name of State Management/River Basin (if known)

United States Geological Survey 8-digit Hydrologic Cataloging Unit Code (if known)

f. Critical low flow of receiving stream (if applicable)

acute cfs chronic cfs

g. Total hardness of receiving stream at critical low flow (if applicable) mg/l of CaCO₃

7. Outfall Information

Description of Outfall and Diffuser

Construction Materials

Length From Shore

_____ feet

Diameter

_____ inches

Discharge Depth Below Water Surface

_____ feet

Receiving Water Bottom Depth Below Water Surface

_____ feet

Is the outfall equipped with a diffuser? Yes No

8. Surface Water Improvement and Management (SWIM)

a. Will the discharge affect any SWIM plan waterbodies? Yes No

b. If yes, name the waterbody _____

c. Has the SWIM plan been approved by a water management district and the Department? Yes No

d. If yes, attach documentation that the proposed discharge is consistent with the SWIM plan.

9. Additional Information Required for Intermittent or Periodic Discharges

Frequency
 Duration
 Volume
 Occurrence

_____ Times Per Year
 _____ Days
 _____ Thousand Gallons Per Incident

	Jan		May		Sep
	Feb		Jun		Oct
	Mar		Jul		Nov
	Apr		Aug		Dec

10. Additional Information Required for Limited Wet Weather Discharges Permitted in Accordance with Rule 62-610.860, F.A.C.

a. Downstream Waterbody

Name of nearest downstream lake, estuary, reservoir, OFW, or Class I water. Show location on a USGS map.

Classification of Downstream Waterbody

 Class I
 Class II
 Class III
 Class IV
 Class V

Distance Downstream

_____ miles

Average Flow Velocity During Anticipated Periods of Discharge

_____ feet per second

Travel Time During Anticipated Periods of Discharge

_____ hours

b. Rainfall Information

Rainfall Gauging Station Location

Period of Record Analyzed:

Beginning Year

Ending Year

Number of Years

Average Annual Rainfall

_____ inches per year

c. Simulation of Operation of the Reuse, Storage, and Limited Wet Weather Discharge for an Average Rainfall Year

Year Simulated _____

Annual Rainfall During Average Year _____ inches

Number of Days Limited Wet Weather Discharge is Used During Average Rainfall Year (N) _____ days

Percent of the Days of the Year that the Limited Wet Weather Discharge will Occur During Average Rainfall Year (P) _____ %

Note:
 $P = [(N) / (365)] \times 100\%$
 P cannot exceed 25% or be less than 1%.

d. Reclaimed Water Quality (maximum monthly average)

CBOD₅ _____ mg/L
 TKN (as Nitrogen) _____ mg/L

e. Minimum Acceptable Stream Dilution Factor (SDF)

Note:
 $SDF = P(0.085 \times CBOD_5 + 0.272 \times TKN - 0.484)$
 The values for CBOD₅ and TKN should be in terms of maximum monthly average limitations as provided in 14.d. above. The value of P should be as calculated in 14.c. above.

f. Adjusted Stream Dilution Factor _____

Note:
 If the travel time shown in 14.a., above, is less than 24 hours, provide the adjusted minimum acceptable stream dilution factor.
 $Adjusted\ SDF = SDF \times (24\ \text{hours}) / (\text{travel time in hours})$

11. Additional Information Required for Wetland Discharges

a. Is the wetland a jurisdictional wetland (i.e. within the landward extent of waters as defined in Rule 62-301.400, F.A.C., or isolated and not owned entirely by one person, or owned entirely by the State)? Yes No

- b. Will the wetland be used as a treatment wetland or receiving wetland? Treatment
Receiving
- If the wetland is to be used as a treatment wetland, attach documentation showing ownership or the applicant's legal interest in the treatment wetland.
- c. If the wetland is to be used for treatment, identify the type. Man-made
Hydrologically Altered
Unaltered
- d. Is the wetland herbaceous or woody? Herbaceous
Woody
- e. Identify the classification of surface waters within the wetland. Class I
Class II
Class III
Class IV
Class V
- f. Are the waters within the wetland part of an OFW? Yes No

12. Effluent Testing Information.

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	Number of Samples
pH (Minimum)		s.u.	-	-	-
pH (Maximum)		s.u.	-	-	-
Flow Rate					
Temperature (Winter)					
Temperature (Summer)					

* For pH, please report a minimum and maximum daily value.

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	MDL/PQL
	Conc.	Units	Conc.	Units	Number of Samples		

CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.

CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND							
TOTAL SUSPENDED SOLDS (TSS)							
FECAL COLIFORM							

13. Additional Application Information for Applicants with a Design Flow Greater Than or Equal to 0.1 mgd

a. Effluent Testing Data

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	MDL/PQL
	Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.							
AMMONIA (as N)							
CHLORINE (TOTAL							
DISSOLVED OXYGEN							
TOTAL KJELDAHL							
NITRATE PLUS NITRITE							
NITROGEN							
OIL and GREASE							
PHOSPHORUS (Total)							
TOTAL DISSOLVED							
OTHER PARAMETERS							

b. Inflow and Infiltration

Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration _____ gpd

Briefly explain any steps underway or planned to minimize inflow and infiltration.

c. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? Yes No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name:

Mailing Address:

Telephone Number:

Responsibilities of Contractor:

14. Expanded Effluent Testing Data: 1.0 mgd and Pretreatment Treatment Works.

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE				ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units		

METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.

ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC											
HARDNESS (AS											

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.

VOLATILE ORGANIC COMPOUNDS.

ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON											
CLOROBENZENE											
CHLORODIBROMO-											
CHLOROETHANE											
2-CHLORO-											
CHLOROFORM											
DICHLOROBROMO-											
1,1-											
1,2-											
TRANS-1,2-DICHLORO-											
1,1-DICHLORO-											
1,2-											
1,3-DICHLORO-											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE											

1,1,2,2-TETRACHLORO-													
TETRACHLORO-													
TOLUENE													
1,1,1,-													
1,1,2,-													
TRICHLOR-													
VINYL CHLORIDE													

Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer.

ACID-EXTRACTABLE COMPOUNDS

P-CHLORO-M-													
2-CHLOROPHENOL													
2,4-													
2,4-													
4,6-DINITRO-O-													
2,4-DINITROPHENOL													
2-NITROPHENOL													
4-NITROPHENOL													
PENTACHLORO-													
PHENOL													
2,4,6-													

Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer.

BASE-NEUTRAL COMPOUNDS.

ACENAPHTHENE													
ACENAPHTHYLENE													
ANTHRACENE													
BENZIDINE													
BENZO(A)-													
BENZO(A)PYRENE													
3,4 BENZO-													
BENZO(GHI)-													
BENZO(K)-													
BIS (2-CHLOROETHOXY)													
BIS (2-CHLOROETHYL)-													
BIS (2-CHLOROISO-													
BIS (2-ETHYLHEXYL)													
4-BROMOPHENYL													
BUTYL BENZYL													
2-CHLORO-													
4-CHLORPHENYL													
CHRYSENE													
DI-N-BUTYL													

DI-N-OCTYL											
DIBENZO(A,H)											
1,2-											
1,3-											
1,4-											
3,3-DICHLOROBENZIDIN											
DIETHYL											
DIMETHYL											
2,4-											
2,6-											
1,2-DIPHENYL-											
FLUORANTHENE											
FLUORENE											
HEXACHLORO-											
HEXACHLORO-											
HEXACHLORO-											
HEXACHLORO-											
INDENO(1,2,3-											
ISOPHORONE											
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-											
N-NITROSODI-											
N-NITROSODI-											
PHENANTHRENE											
PYRENE											
1,2,4-TRICHLORO-											

Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

7. Type of Reuse or Land Application System

- Slow-rate land application system/restricted public access (Chapter 62-610, F.A.C., Part II)
- Slow-rate land application system/public access areas, residential irrigation, and edible crop irrigation (Chapter 62-610, F.A.C., Part III)
- Rapid-rate land application system (Chapter 62-610, F.A.C., Part IV)
- Absorption field system (Chapter 62-610, F.A.C., Part V)
- Overland flow system (Chapter 62-610, F.A.C., Part VI)
- Other land application system with additional levels of preapplication treatment (Rule 62-610.660, F.A.C.)
- Other land application system with lower levels of preapplication treatment (Rule 62-610.670, F.A.C.)

8. Application Areas and Rates

Site/Use Type/Major User	Area (acres)	Rate (inches/week)	Capacity (mgd)
Sun Lakes Estates	6.82	7.79	0.206
Total	6.82	7.79	0.206

9. Additional Information Required for Reuse Systems Permitted Under Part III of Chapter 62-610, F.A.C.

a. Areas Irrigated

- Residential lawns
- Golf courses
- Cemeteries
- Parks, playgrounds
- Landscape areas
- Highway medians, rights-of-way
- Edible crops
- Others

If other, specify _____

b. Other Uses of Reclaimed Water

- Toilet flushing
- Fire protection
- Construction dust control
- Aesthetic purposes (decorative ponds, fountains, etc.)
- Others

If other, specify. _____

c. How many hours per day, seven days per week, is or will an operator be on-site at the wastewater treatment facility?

_____ hours per day

If the treatment facility is or will be staffed by an operator less than 24 hrs/day, describe the additional levels of reliability included within the treatment or reuse systems (See Rule 62-610.462, F.A.C.)

d. For permit renewals, list the dates on which the operating protocols (as described in Rule 62-610.463, F.A.C.) were submitted to the Department and the date of the Department's approvals during the last five years.

Date Submitted	Date Approved

e. For each site where edible crops are or will be irrigated with reclaimed water, describe the crops grown; the type of application system used; provisions for crop washing and for processing, if any; and provisions for control of public access, if any. (See Rule 62-610.475, F.A.C.)

SECTION 3. C. GROUND WATER DISPOSAL BY UNDERGROUND INJECTION
NOT APPLICABLE

1. Underground Injection Well Facility Serial Number and Name

Underground Injection Well Facility Serial Number

2. Underground Injection Well Facility Location

County

City or Town (if applicable)

Street or Description

Latitude

Longitude

Dates Coordinates Determined

Method Used to Obtain Coordinates

_____ ° _____ ' _____ "N
 _____ ° _____ ' _____ "W

3. Underground Injection Well Facility DEP Identification Number or Permit Application Number

4. Design Capacity of the Underground Injection Well Facility

Current Design Capacity

Proposed Incremental Design Capacity

Proposed Total Design Capacity

_____ mgd
 + _____ mgd
 = _____ mgd

5. Basis of Design Flow

- Annual Average Daily Flow
- Maximum Monthly Average Daily Flow
- Three-Month Average Daily Flow
- Other

If other, specify.

6. Is injection continuous or intermittent?

Continuous Intermittent

SECTION 4. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION N/A

1. Improvements Required

a. Discharge Serial Numbers, Reclaimed Water Reuse or Land Application System Serial Numbers, and Underground Injection Well Facility Serial Numbers Affected

b. Authority Imposing Requirement

Local
State
Federal
Developed by Applicant
Other

If other, specify. _____

2. Implementation Schedule and Actual Completion Dates

Implementation Steps	Schedule	Actual Completion
a. Preliminary Plans Complete		
b. Final Plans and Specifications Complete		
c. Financing Complete		
d. Site Acquired		
e. Begin Construction		
f. End Construction		
g. Begin Reuse or Disposal		
h. Operational Level Attained		

3. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?

Yes No

If so, describe briefly:

8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g. upsets, interference) at the treatment works in the past three years?

Yes No

If yes, describe each episode.

RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe?

Yes No If no, go to question 12.

10. Waste Transport. Method by which RCRA waste is received (check all that apply):

Truck Rail Dedicated Pipe

11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>
-----------------------------------	---------------	--------------

12. Remediation Waste. Does the treatment works currently (or has it been modified that it will) receive waste from remedial activities?

Yes (complete 13. through 15.) No

Provide a list of sites and the requested information (13. – 15.) for each current and future site.

13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

Treatment.

a. Is this waste treated (or will it be treated) prior to entering the treatment works?

Yes No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

Continuous Intermittent

If intermittent, describe discharge schedule.

SECTION 6. ADDITIONAL INFORMATION REQUIRED FOR PERMIT RENEWALS

1. Have there been any modifications to the treatment facilities or reuse or disposal system, since the issuance of the current permit? If yes, describe on a separate sheet and attach. __ Yes No

2. For limited wet weather discharges, have any modifications been made to the operation, frequency of discharge, or stream hydrology since the original limited wet weather discharge permit or the most recent permit. If yes, describe on a separate sheet and attach. __ Yes No NA

3. Have there been any violations during the last six months? If yes, describe on a separate sheet and attach. __ Yes No

4. Have there been any treatment facility interferences due to the discharge of industrial wastewater to the treatment facility during the last six months? If yes, describe on a separate sheet and attach. __ Yes No

5. Is there any enforcement action pending against these treatment, reuse, or disposal facilities? If yes, describe on a separate sheet and attach. __ Yes No

6. Have all previous permit conditions, including pretreatment requirements, monitoring requirements, and operator attendance been complied with? If no, describe on a separate sheet and attach. Yes __ No

7. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., list the number of days during each of the last five years that the limited wet weather discharge was used. Also, list the total annual rainfall for each year.

Year	Number of Days Used	P (%)	Annual Rainfall (inches)
1.			
2.			
3.			
4.			
5.			
Total/Average			

8. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., provide the number of days during each of the last five years that the actual dilution ratio, as defined in Rule 62-610.860, F.A.C., was less than the minimum SDF and the number of months in which the monthly average CBOD₅ or TKN in the limited wet weather discharge exceeded the permit limitations.

Year	Number of Days the Dilution Ratio Was Less Than SDF	Number of Months the Limits Were Exceeded	
		CBOD ₅	TKN
1.			
2.			
3.			
4.			
5.			

**SECTION 7. ADDITIONAL INFORMATION REQUIRED
FOR RESIDUALS/SEPTAGE MANAGEMENT FACILITIES
NOT APPLICABLE**

1. Location of Residuals Treatment Processes _____

(Describe in relation to the wastewater treatment processes.)

2. Type and Amount of Waste Treated at this Facility

Type	Amount (dry tons/day)	Amount (gallons/day)
Residuals	or	
Septage		
Food Establishment Sludge		
Portable Toilet Waste		
Holding Tank Waste		
Boat or Marina Waste		
Other (Describe.)	or	
Total	or	

Is the total amount estimated or actual?

Estimated
Actual

3. Information on Treatment Facilities Transporting Residuals

a. DEP Permit Number

b. Facility Name

Number and Street

City/State/Zip Code

County

Telephone

c. Facility Type

Type I
Type II
Type III

d. Amount of Residuals Received From This Facility

_____ dry tons/day or _____ gpd

Is this amount estimate or actual?

Estimated
Actual

e. Describe the treatment provided by this facility before transport

f. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen		% dry weight
Total Phosphorus		% dry weight
Total Potassium		% dry weight
Arsenic		mg/kg dry weight
Cadmium		mg/kg dry weight
Chromium		mg/kg dry weight
Copper		mg/kg dry weight
Lead		mg/kg dry weight
Mercury		mg/kg dry weight
Molybdenum		mg/kg dry weight
Nickel		mg/kg dry weight
Selenium		mg/kg dry weight
Zinc		mg/kg dry weight
pH		standard units
Total Solids		%
Other Parameters		

Date of Sample _____

4. Describe the manifest system used for tracking residuals during transport from the facilities.

SECTION 8. DOCUMENTATION SUBMITTED

		Attached	
1. General Application Requirements		Yes	No
a.	Process Flow Diagram	X	
b.	Site Plan	X	
c.	Location Map	X	
d.	Agricultural Use Plan or Dedicated Site Plan		X
e.	Capacity Analysis Report	X	
f.	Results of Whole Effluent Biological Toxicity Testing		X
g.	Reuse Feasibility Study		X
h.	Binding Agreements and Documentation of Controls on Individual Users of Reclaimed Water		X

2. Additional Application Requirements for New Facilities and Modifications to Existing Facilities		Yes	No
a.	Preliminary Design Report		
b.	Documentation of Compliance with Antidegradation Requirements		
c.	Public Service Commission Certification Number and Copy of Certificate or Order Number and Copy of Order		
d.	Letter from the Management and Storage of Surface Waters Permitting Agency		
e.	Request for Approval of Monitoring Plans for Discharge of Domestic Wastewater to Wetlands		
f.	Concurrent Application for Ground Water Disposal by Underground Injection		
g.	Application for Monitoring Plan Approval		

3. Additional Application Requirements for Permit Renewals		Yes	No
a.	Operation and Maintenance Performance Report	X	
b.	Reclaimed Water or Effluent Analysis Report		X
c.	Technical Evaluation of Need to Revise Local Pretreatment Limits		X
d.	Results of Mechanical Integrity Testing		X

SECTION 9. CERTIFICATIONS

1. Certifications for Construction of New Facilities or Modifications to Existing Facilities

a. Applicant or Authorized Representative

I certify that the statements made in this application for a permit and all attachments are true, correct, and complete to the best of my knowledge and belief. I agree to retain the design engineer, or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a notification of completion of construction, and to review record drawings for adequacy as referenced in Rule 62-620.630, F.A.C. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-620.630, F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare or revise, if necessary) the manual. For projects regulated by Chapter 62-610, F.A.C., I agree to provide the additional operation requirements of that Chapter.

(Signature of Applicant or Authorized Representative¹) _____ Date _____
Name (please type) _____ Company Name _____
Title _____ Company Street Address or P O Box _____

Telephone No. (including area code) _____ City, State, Zip Code _____

b. Professional Engineer Registered in Florida

I certify that the engineering features of this domestic wastewater project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgment, this facility, when properly constructed, operated, and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type): _____ Company Name: _____
Florida Registration Number: _____ Company Street Address or P O Box _____
Telephone No. (including area code) _____ City/State/Zip Code: _____

(Seal, Signature, Date, Registration No.)

c. Professional Engineer Registered in Florida

I certify that this firm or individual has been retained by the applicant to prepare a notification of completion of construction, to prepare operation and maintenance manuals, and to review record drawings for adequacy as referenced in Rules 62-620.630, 62-600.717, and 62-600.720, F.A.C.

Name (please type): _____ Company Name: _____
Florida Registration Number: _____ Company Street Address or P O Box _____
Telephone No. (including area code) _____ City/State/Zip Code: _____

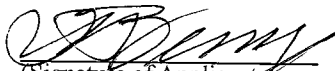
(Seal, Signature, Date, Registration No.)

¹ If signed by the authorized representative, attach a letter of authorization.

2. **Certifications for Permit Renewals**

a. Applicant or Authorized Representative

I certify that the statements made in this application for a permit and all attachments are true, correct and complete to the best of my knowledge and belief. I agree to operate and maintain these wastewater facilities in such a manner as to comply with the provisions of Chapter 403, F.S., Chapter 62-600, F.A.C., and all other applicable rules of the Department. Further, an appropriate operation and maintenance manual which has been examined by a professional engineer as certified below is available and located at 5600 US Hwy 1N, Sharps and can be submitted upon request as part of the permit procedure. A copy of the record drawings or other plans (as applicable) showing modifications to existing facilities, as referenced in Rule 62-600.717, F.A.C., is available at the same location. I also understand that a permit if granted by the Department, is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C., and I will notify the Department in accordance with this rule upon sale or legal transfer of the permitted facilities. In the event of abandonment or inactivation of the facilities, I will notify the Department and ensure that public health and safety are protected as required by Rule 62-620.610, F.A.C.



(Signature of Applicant or Authorized Representative²)

Thad Terry

Name (please type)

Owner

Title

321-639-8440

Telephone No. (including area code)

2-19-2020
Date

Sun Lakes Homeowners Association

Company Name

5600 US Hwy 1N

Company Street Address or P O Box

Sharps, FL, 32927

City, State, Zip Code

b. Professional Engineer

I certify that the engineering features of these domestic wastewater facilities have been examined by me and found to conform to engineering principles applicable to such projects. I certify that the operation and maintenance manual for these wastewater facilities has been prepared or examined by me or by individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgement, that the facilities, when properly operated and maintained in accordance with this manual, will comply with all applicable statutes of the State of Florida and rules of the Department.

George J. McDonald, P.E.

Name (please type):

44740

Florida Registration Number:

352-637-1652

Telephone No. (including area code)

44740

(Seal, Signature, Date, Registration No.)

McDonald Group International, Inc.

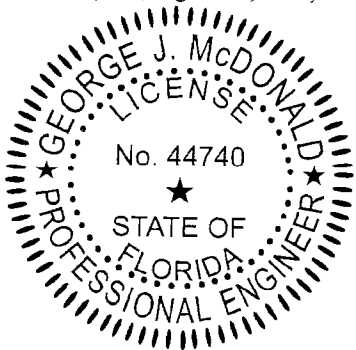
Company Name:

9030 S Brittany Pt.

Company Street Address or P O Box

Inverness FL 34452

City/State/Zip Code:



Certification statement 2b has been electronically signed and sealed by George J. McDonald PE on 2/22/20 using a Digital Signature. Printed copies of the document are not considered signed and sealed and all signatures must be verified on any electronic copies.

² If signed by the authorized representative, attach a letter of authorization.



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767
DEP_CD@dep.state.fl.us

REQUEST FOR ADDITIONAL INFORMATION

March 10, 2020

Thad Terry
5600 N US Highway 1
Cocoa, Florida 32927
(321) 639-8440

Re: First Request for Additional Information (RAI)
Brevard County – Wastewater
Facility Name: Sun Lake Estates WWTF
Facility ID: FLA010353
DEP Application No.: FLA010353-007-DW3P

Dear Mr. Terry:

Thank you for your application for Permit Renewal submitted on February 24, 2020, for the above referenced Facility. A review of your application and supporting documentation indicates the application is incomplete. Please provide the information in the attached document and refer to this RAI in your response.

To continue the processing of your application, the Department must receive a response within 90 days of this letter, June 07, 2020, unless a written request for additional time to provide the requested information is submitted and approved. It is the Department's desire to provide prompt turnaround times on permit applications, and a quicker response to this RAI shortens the timeframe for which a final decision on the application can be made. Pursuant to Rule 62-4.055(1), F.A.C. and Section 120.60, F.S., failure of an applicant to provide timely requested information by the applicant deadline may result in denial of the application. You are encouraged to contact this office to discuss the items requested to assist you in developing a complete and adequate response.

Your processor, Mohamed Abouelkheir can be contacted at (407)897-2966, Mohamed.Abouelkheir@floridadep.gov. Please submit your response by email to DEP_CD@floridadep.gov, with a copy to Mohamed.Abouelkheir@floridadep.gov. If the submittal is very large, you may post it to a folder on this office's ftp site at: ftp://ftp.dep.state.fl.us/pub/incoming/Central_District/. After posting the submittal, send an e-mail to DEP_CD@floridadep.gov, with a copy to Mohamed.Abouelkheir@floridadep.gov, alerting us that it has been posted.

Thad Terry
Page 2 of 3
March 10, 2020

Sincerely,

A handwritten signature in black ink, appearing to read "Reggie Phillips", written in a cursive style.

Reggie Phillips
Environmental Administrator
Permitting and Waste Cleanup Program

v. 1.8

cc:

George J. McDonald, P.E., gmcdonald@mcdonaldgroup.com
DEP: David Smicherko, Dennise Judy, Mohamed Abouelkheir

Attached: List of Requested Information

Attachment: List of Requested Information

Thad Terry


Facility Name: Sun Lake Estates WWTF

Facility ID: FLA010353

DEP Application No.: FLA010353-007-DW3P

1. Revise the Operation and Maintenance Performance Report (OMPR) to confirm that the sand and grit have been removed in the plant. [62-600.735]
2. Revise the OMPR to indicate whether the facility's Operation and Maintenance (O&M) Manual addresses the following for each component (the collection system, pumping stations, treatment process, sludge disposal, and reuse system): Safety Procedures, Procedures for Emergency Situations, Procedures for Laboratory Testing, Monitoring Procedures, Process Control Procedures, Normal Operating Procedures, Procedures for Maintenance, Planning, and Scheduling, "Trouble-Shooting" Procedures, Procedures for Maintenance of Spare Parts and Supply Inventories, Repair Procedures, Staffing Requirements, and Basic Hydraulic and Engineering Design Criteria. [62-600.720(1)(b)]
3. Please submit documentation of the required annual calibration of the wastewater flow monitoring equipment. [62-600.200(25)]
4. The Capacity Analysis Report (CAR) provides the historical flow rate of 218 gpd/mobile home in Section 3.1 but uses 189 gpd/mobile home in Section 3.2 when forecasting future flows. Justify the use of a lower flow rate considering that the collection/transmission system is more likely to have increased infiltration and inflow (I/I) as it ages resulting in higher per unit flows.
5. Submit an executed agreement with a permitted Biosolids Treatment Facility (BTF) for treatment and land application of the biosolids from this facility. [62-640.880(1)(c)]
6. Submit a Biosolids Storage Plan that demonstrates that storage capacity is available to provide retention of biosolids under adverse weather conditions, harvesting conditions, or other conditions which preclude land application or the use or disposal of the facility's biosolids. The demonstration of storage capacity should take into account alternative options and operational flexibility, such as use of excess digester capacity, with supporting calculations, or an indication that there is more than one alternative for biosolids disposal. [62.640.300(4)]
7. Fecal coliform is included in the Groundwater Monitoring Plan (GWMP) for this facility. Please explain why this parameter is not being reported in the semi-annual Groundwater Monitoring Reports (GWMRs), resulting in the designation "Data Not Provided" (DNP) for some sampling events. Provide assurance that samples for fecal coliform, in addition to the 6 other parameters required in the monitoring plan, will be analyzed and reported semi-annually (twice per year) on the GWMRs. [62- 610.412(2)(a)]
8. During the most recent inspection on October 31, 2019, a groundwater monitor well on the south side of the RIBs was accessed but was observed to be un-labeled. Please permanently tag each groundwater monitor well and submit photos of all three wells once completed. Rust was also observed by the inspector on the outer casing, please provide pictures of the actual well casing inside the manhole cover for each well to determine that the well is structurally sound. [62-610.412(2)(b)]

From: [JERRY PADRICK](#)
To: [Hall, Carolyn X](#)
Subject: Sand and grit Removal
Date: Sunday, March 22, 2020 11:07:47 AM
Attachments: [20200319_091928.jpeg](#)
[20200319_091935.jpeg](#)
[20200319_091939.jpeg](#)
[20200320_161858.jpeg](#)
[20200320_161905.jpeg](#)
[20200320_161916.jpeg](#)
[20200320_161930.jpeg](#)

Hi Carolyn I left you a voice mail Friday, here are the before and after pictures. Also the material went to Merritt Island regional sewer plant. The land fill would not take it even though they are a class A site. 

















FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 10, 2020

Thad Terry, Owner
Sun Lake Estates Homeowners Association
5600 N US Highway 1
Cocoa, FL 32927

Re: Return to Compliance
Sun Lake Estates WWTF
DW FLA010353
Brevard County

Dear Mr. Terry:

Department personnel conducted a review of the response to the Compliance Assistance Offer Letter issued November 14, 2019. Based on the information provided in your response, the facility was determined to have resolved the identified issues and has returned to compliance with the Department's rules and regulations.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Carolyn Hall at 407-897-4114 or via e-mail at Carolyn.X.Hall@floridaDEP.gov.

Sincerely,

David Smicherko

David Smicherko, Manager
Central District
Florida Department of Environmental Protection

cc: JERRY PADRICK jpadrick67@bellsouth.net

From: [George McDonald-PE](#)
To: [DEP_CD](#); [Abouelkheir, Mohamed](#)
Subject: SunLake FLA010353
Date: Tuesday, April 14, 2020 12:32:43 PM
Attachments: [RAI one response-signed.pdf](#)

Please see attached response to your request for additional information,
thanks

--

George McDonald, P.E. McDonald Group International, Inc. Desk
352-637-1652 Toll Free 877-593-2364 Fax 888-523-0884 Mobile 352-476-3951



April 13, 2020

Mohamed Abouelkheir
Domestic Wastewater Permitting
Florida Department of Environmental Protection
Central District
3319 Maguire Blvd Ste 232
Orlando Florida 32803-3767

Subject Wastewater Permit Renewal Application for Sun Lakes Estates:
FLA010353, Brevard County, Florida

Dear Mr. Abouelkheir;

In reply to your request for additional information, the following comments are offered:

1.1. Revise the Operation and Maintenance Performance Report (OMPR) to confirm that the sand and grit have been removed in the plant

The report accurately describes conditions as they existed as of the date of the site visit referenced in the report on page 10. However, on March 23rd the operator advised me that the material had been removed. Correspondence indicates the operator also communicated such to the FDEP on March 22, 2020.

2.2 Revise the OMPR to indicate whether the facility's Operation and Maintenance (O&M) Manual addresses the following for each component (the collection system, pumping stations, treatment process, sludge disposal, and reuse system): Safety Procedures, Procedures for Emergency Situations, Procedures for Laboratory Testing, Monitoring Procedures, Process Control Procedures, Normal Operating Procedures, Procedures for Maintenance, Planning, and Scheduling, "Trouble-Shooting" Procedures, Procedures for Maintenance of Spare Parts and Supply Inventories, Repair Procedures, Staffing Requirements, and Basic Hydraulic and Engineering Design Criteria. [62-600.720(1)]

The OMPR report in section 5.2 states that at the time of the visit, the O&M manual for the facility was not found on site, but, "the engineer has supplied a replacement document". The replacement document was written to contain the content required of rule 62-600.720 "Operation and Maintenance Manual" for the wastewater treatment plant and effluent reuse system.

With respect to the wastewater collection system, the manual includes a submersible pump troubleshooting guide applicable to the lift stations. However, a manual for the wastewater collection system as a standalone, comprehensive document for just its specific components is not readily available. The collection system will need to have a map and the equipment in the lift station pumps inventoried. Sun Lake may or may not have this information and it will have to be acquired through mapping, data collection, retrieval of manufacturer data and compiled.

April 13, 2020

Sun Lake

Page Two

Please incorporate having the collection system O&M manual prepared as a scheduled improvement item in the wastewater plant permit, with a time frame of six months to complete after permit issuance.

3. Please submit documentation of the required annual calibration of the wastewater flow monitoring equipment. [62-600.200(25)]

The flow meter was calibrated by the operator on December 20, 2020, please see enclosed certificate furnished by the operator.

4. The Capacity Analysis Report (CAR) provides the historical flow rate of 218 gpd/mobile home in Section 3.1 but uses 189 gpd/mobile home in Section 3.2 when forecasting future flows. Justify the use of a lower flow rate considering that the collection/transmission system is more likely to have increased infiltration and inflow (I/I) as it ages resulting in higher per unit flows.

Table 3.2 in the CAR had a typo, future possible flow of 0.098 MGD was forecasted as 450 lots x 218 gpd/each. A replacement page has been generated and is enclosed.

5. Submit an executed agreement with a permitted Biosolids Treatment Facility (BTF) for treatment and land application of the biosolids from this facility. [62-640.880(1)(c)]

Enclosed, please the biosolids disposal agreement.

6. Submit a Biosolids Storage Plan that demonstrates that storage capacity is available to provide retention of biosolids under adverse weather conditions, harvesting conditions, or other conditions which preclude land application or the use or disposal of the facility's biosolids. The demonstration of storage capacity should take into account alternative options and operational flexibility, such as use of excess digester capacity, with supporting calculations, or an indication that there is more than one alternative for biosolids disposal. [62.640.300(4)]

A biosolids storage and disposal plan was provided with the application, See CAR report, section 2.6.2 *Biosolids Storage and Disposal*, which goes through the waste sludge flow rate, volume recovered by supernating, expected days of storage and adequacy of same and disposition of hauled material.

7. Fecal coliform is included in the Groundwater Monitoring Plan (GWMP) for this facility. Please explain why this parameter is not being reported in the semi-annual Groundwater Monitoring Reports (GWMRs), resulting in the designation "Data Not Provided" (DNP) for some sampling events. Provide assurance that samples for fecal coliform, in addition to the 6 other parameters required in the monitoring plan, will be analyzed and reported semi-annually (twice per year) on the GWMRs. [62- 610.412(2)(a)] 8

Not entirely sure why these samples were not reported tested for fecal coliforms. The monitor sampling and testing is given to a contracted testing lab to do. Reviewing the most recent paper submission it seems the line for fecal coliforms dropped off the form they were using for reasons unknown.

April 14, 2020

Sun Lake

Page Two

In any case, operator and owner are aware that fecal coliforms have to be tested for in each sample and going forward will direct the lab to test for fecal coliforms , ensuring the monitor well DMR included with the permit which has a line for fecal coliform test reporting is used and completed.

8. During the most recent inspection on October 31, 2019, a groundwater monitor well on the south side of the RIBs was accessed but was observed to be un-labeled. Please permanently tag each groundwater monitor well and submit photos of all three wells once completed. Rust was also observed by the inspector on the outer casing, please provide pictures of the actual well casing inside the manhole cover for each well to determine that the well is structurally sound.

The facility operator has been out to each well and has painted on their number, see enclosed. Removing the rust and making any repairs needed to the well top and casing will take some effort and time to complete. Please include removing rust, repair and recoat as required the monitor well casing as a scheduled improvement item in the issued permit, allow 90 days to complete.

Should you require additional information, please do not hesitate to call.



Sincerely,
McDONALD GROUP INTERNATIONAL, INC..

George J. McDonald, P.E.

Cc
Thad Terry
Jerry Padrick

This letter response has been electronically signed and sealed by George J. McDonald PE on 4/14/2020 using a Digital Signature. Printed copies of the document are not considered signed and sealed and all signatures must be verified on any electronic copies .

FLOW METER CALIBRATION REPORT
For Duplex Lift Stations with Elapsed Time Meters

1. Facility Information

Facility Name: SUN LAKE Estates
 Permit ID: FLA010353
 Facility Location: COCOA
 Date of Last Calibration, if known: 12-18-19

2. Wet Well Diameter and Gallons Per Foot and Gallons Per Inch:

- (place check mark by which size wet well applies)
- 3' diameter = 53 gallons per foot = 4.4 gallons per inch
 - 4' diameter = 94 gallons per foot = 7.8 gallons per inch
 - 5' diameter = 146.9 gallons per foot = 12.2 gallons per inch
 - 6' diameter = 211.5 gallons per foot = 17.6 gallons per inch

For Rectangular Wet Wells, Measure Length X and Width Y in feet

Gallons per Inch = $7.48 * X * Y / 12 =$ _____

3. Measure Inflow

If no inflow to lift station inflow = 0 gpm and skip to 4, otherwise record the following

Start Depth to Water, inches _____
 Depth of Water after 3 minutes, inches _____
 Inflow gpm = _____

*Inflow = [first measurement to water - second measurement to water] * wet well gallons per inch / 3 minutes*

4. Pump Draw Down

	Col 1 Depth to Water Start	Col 2 Depth at End	Col 3 Difference Depth (inches)	Col 4 Difference x Gallons Per Inch	Col 5 Inflow	Pump Rate Col 4 + Col 5
<u>1.5 min</u>						
PUMP 1 1 MINUTE DRAWDOWN	<u>87</u>	<u>69</u>	<u>18</u>	<u>219</u>	<u>/</u>	<u>219</u>
PUMP 2 1 MINUTE DRAWDOWN	<u>65</u>	<u>47</u>	<u>18</u>	<u>219</u>	<u>/</u>	<u>219</u>

5. Elapsed Time Meter Check

	Meter reading Start	Meter Reading	Difference	Accurate? (Y/N)
Pump 1 Clock - run meter for 6 minutes	<u>309.5</u>	<u>309.6</u>	<u>1</u>	<u>Yes</u>
Pump 2 Clock - run meter for 6 minutes	<u>5932.9</u>	<u>5933.0</u>	<u>1</u>	<u>Yes</u>

Note: ET Meters normally read hours and tenths of hours: .0.1 Hour = 6 minutes

6. Certification

This facility flow meter calibration was performed on 12-20-2020 By Jerry Padeick *JP*
(printed name)

3.0 Future Conditions - Wastewater Flow Projection

3.1 Unit Waste Generation Rates

From section 3.1, the annual average daily flow is 0.045 MGD.

There are 206 mobile homes served by this facility at the present.

From this, it is concluded that the unit waste generation rate is 218 gpd per mobile home.

3.2 Future Possible Average Flow

The future possible average flow to this facility is calculated in table 3.2 under the premise that the maximum future or build out flow is equal to the maximum number of units that contribute wastewater times their unit waste generation rate.

Table 3.2 Future Possible Average Flow

Type of Unit	#of Units	Unit Waste Generation Rate	Future Flow
mobile home	450	218 gpd per mobile home	0.098 MGD

3.3 Growth Rate

Future growth rates can be predicted from several methods. In general, the major methods are: linear regression of historical flow, local municipal comprehensive plan projections, and site specific knowledge.

In this case, site specific knowledge was used to predict flows using information supplied by the owners. The 206 lots presently occupied represent the bulk of the constructed subdivision and the areas is essentially built out. The owner has additional property which are undeveloped which might bring the number of connected units to 450, but, there are no plans for any such expansion at this time. The population demographics appear stable, and no further growth is expected for the next ten years. Annual average flows are expected to remain at present levels for the foreseeable future.



BOARD OF COUNTY COMMISSIONERS

UTILITY SERVICES DEPARTMENT

2725 Judge Fran Jamieson Way
Building A, Room 213
Viera, Florida 32940

March 19, 2020

Thad Terry
Sun Lake Estates
616 Emerald Lake Dr.
Cocoa, FL 32926

Mr. Thad Terry,

Sun Lake Estates is authorized to have sludge from their domestic wastewater treatment facility operated under permit FLA010353-006 treated by BCUD/South Central Regional Water Reclamation Facility (SCWRF) in accordance with permit number FL 0102679.

The sludge hauler shall have a Certificate of Liability Insurance, an application for the treatment and disposal of septage approval, and a Brevard County Septage Manifest on file with Brevard County Utility Services Department. That manifest will be filled out in accordance with permit FL0102679 Part II, Section C, Paragraph 9.

SCWRF agrees to accept a maximum of 6,000 gallons per visit from Sun Lake Estates. The sludge may be delivered on Tuesdays and Thursdays through Sundays. Sludge will not be accepted on Mondays and Wednesdays. There are no requirements on the quality of the sludge. SCWRF has sufficient capacity to receive biosolids from Sun Lake Estates. Sun Lake Estates will be responsible for the sludge during transport to SCWRF.

The sludge hauler shall also provide a copy of the final manifest to Sun Lake Estates verifying their offload location in accordance with permit FLA010353, Part II, A., Paragraph 1.

This agreement is in accordance with FAC 62-640.880(1)(c).

Phillip Bissett
Senior Plant Supervisor
BCUD/South Central WRF
Date 3/26/20

Thad Terry
Property Manager
Sun Lake Estates
Date

----- Forwarded Message -----

Subject:Monitoring Wells

Date:Thu, 26 Mar 2020 14:53:46 -0400

From:JERRY PADRICK <jpadrick67@bellsouth.net>

To:George McDonald-PE <gmcdonald@mcdonaldgroup.com>



George here is

what t



hey wanted.Thanks

From: [George McDonald-PE](#)
To: [DEP_CD](#); [Abouelkheir, Mohamed](#); [Jerry Padrick](#)
Subject: Re: SunLake FLA010353
Date: Wednesday, April 15, 2020 10:16:38 AM

An update to the response I sent out yesterday:

1) Regarding the monitor wells and correction of corrosion to casings, the operator will have these corrected next week with photos showing exterior and interior, which we will send, and we would not need a condition in the permit to have this done.

2) Similarly with the wastewater collection system manual, it appears there may be available adequate documentation to assemble a collection system manual, and we expect that will be completed next week as well, will advise when it is complete, so we will not need a condition in the permit to have one prepared.

3) Once these are complete, the permittee requests the new permit be issued for a period of ten years.

Thanks so much, and contact me if any questions concerning this

--

George McDonald, P.E. McDonald Group International, Inc. Desk
352-637-1652 Toll Free 877-593-2364 Fax 888-523-0884 Mobile 352-476-3951

On 4/14/2020 12:32 PM, George McDonald-PE wrote:

> Please see attached response to your request for additional
> information, thanks

>

> 51



FLORIDA DEPARTMENT OF Environmental Protection

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

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

In the Matter of an
Application for Permit by:

Sun Lake Estates
Thad Terry, Owner
5600 N Highway 1n
Sharps, Florida 32927
matlantisinvest@CFL.rr.com

File Number FLA010353-007-DW3P
Brevard County
Sun Lake Estates WWTF

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FLA010353 to operate the Sun Lake Estates WWTF, 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, if any.

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



Reggie Phillips
Environmental Administrator
Permitting and Waste Cleanup Program

Attachment(s):

1. Permit No. FLA010353
2. Discharge Monitoring Report

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:

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.

Barbara Browning
Clerk

May 1, 2020
Date

Copies Furnished to:

George McDonald, P.E, gmcdonald@mcdonaldgroup.com

DEP: Reggie Phillips, Dennise Judy, Mohamed Abouelkheir, David Smicherko



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:
Sun Lake Estates

RESPONSIBLE OFFICIAL:
Thad Terry, Owner
5600 US Hwy 1N
Sharps, Florida 32927
(321) 639-1124
matlantisinvest@CFL.rr.com

PERMIT NUMBER: FLA010353
FILE NUMBER: FLA010353-007-DW3P
ISSUANCE DATE: May 1, 2020
EFFECTIVE DATE: October 28, 2020
EXPIRATION DATE: October 27, 2030

FACILITY:

Sun Lake Estates WWTF
616 Emerald Lake Dr
Cocoa, FL 32926-4671
Brevard County
Latitude: 28°25' 31.54" N Longitude: 80°46' 42.66" W

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

WASTEWATER TREATMENT:

This is an existing 0.099 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant (designed capacity 0.135 MGD AADF) consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

REUSE OR DISPOSAL:

Land Application R-001 is an existing 0.206 MGD annual average daily flow designed capacity rapid infiltration basin (RIB) system limited to 0.099 MGD AADF, the permitted capacity of the treatment plant. R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins with a total wetted area of 6.82 acres located approximately at latitude 28°25' 34" N, longitude 80°46' 43" W.

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 18 of this permit.

PERMITTEE: Sun Lake Estates
 FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
 EXPIRATION DATE: October 27, 2030

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. 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 direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.7.:

Parameter	Units	Max./Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (Flow to R-001)	MGD	Max Max	0.099 Report	Annual Average Monthly Average	5 Days/Week	Recording Flow Meter with Totalizer	FLW-1	See I.A.3
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	Monthly	Grab	EFA-1	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab	EFA-1	
Coliform, Fecal	#/100 mL	Max Max Max	200 800 Report	Annual Average Single Sample Monthly Geometric Mean	Monthly	Grab	EFA-1	See I.A.4 and I.A.5
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFA-1	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab	EFA-1	See I.A.6
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Monthly	Grab	EFA-1	
Nitrogen, Total	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab	EFA-1	
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab	EFA-1	

PERMITTEE: Sun Lake Estates
FACILITY: Sun Lake Estates WWTF

PERMIT NUMBER: FLA010353
EXPIRATION DATE: October 27, 2030

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

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter at chlorine contact tank.
EFA-1	Chlorine contact tank effluent.

3. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-600.200(25)]
4. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. All other fecal coliform effluent limitations included in permit condition I.A.1 apply regardless of the number of values reported. [62-600.440(5)(b)]
5. To report the "90th percentile,"
- Place the bacteria results in ascending order (from lowest to highest value) and assign each sample a number, 1 for the lowest value.
 - Multiply the total number of samples by 0.9 to determine the 90th percentile level.
 - Report the value of the sample that corresponds to the 90th percentile level (e.g., 10 samples \times 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 \times 0.9 = 10.8, report the value of the 11th sample if rounding).
- [62-600.440(5)(a)3]
6. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-610.510] [62-600.440(5)(c) and (6)(b)]

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B. 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.B.7.:

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	0.099 Report Report	Annual Average Monthly Average Quarterly Average	5 Days/Week	Recording Flow Meter with Totalizer	FLW-1	See I.B.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	Annually	Grab	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	Annually	Grab	INF-1	See I.B.3

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

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter at chlorine contact tank.
CAL-1	Calculate from daily flow.
INF-1	Raw influent to surge tank.

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. 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;
 - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
 - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

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

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

6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]

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- 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, if any. 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 may submit either paper or electronic DMR forms. If submitting electronic DMR forms, 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/>. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms.

If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Central District Office at the address specified in Permit Condition I.B.8. by the twenty-eighth (28th) of the month following the month of operation.

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

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

Electronic submittal is preferred, by sending to DEP_CD@dep.state.fl.us .

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

Phone Number - (407)897-4100

[62-620.305]

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

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II. BIOSOLIDS MANAGEMENT REQUIREMENTS

A. Basic Requirements

1. Biosolids generated by this facility may be transferred to BCUD/ Sykes Creek WRF (FLA0102695) 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)]
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.B.7.

Parameter	Units	Max./ Min	Biosolids Limitation		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	Monthly	Calculated	RMP-1	
Biosolids Quantity (Landfilled)	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	Weight of biosolids measured or calculated (based on volume and %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. 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)]

C. 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)]

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

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

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

[62-640.880(4)]

D. Receipt

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

III. GROUND WATER REQUIREMENTS

A. Construction Requirements

1. 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 IV land application system(s), all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for Land Application Site R-001 shall extend horizontally 100 feet from the application site and vertically to the base of the surficial aquifer. *[62-520.200(27)] [62-520.465]*
2. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. *[62-520.400 and 62-520.420(4)]*
3. If the concentration for any constituent listed in Permit Condition III.6. 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)]*

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4. 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.5., 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] [62-610.510]
5. The following monitoring wells shall be sampled for Reuse System R-001 located at Land Application Site RIB-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-1	SUN LAKE ESTATES/BACK GMS3005A14849	28°25' 31"	80°46' 46"	10	Surficial	Background	Existing
MWC-3	SUN LAKE ESTATES/COMP. GMS3005A14851	28°25' 55"	80°46' 43"	10	Surficial	Compliance	Existing
MWI-2	SUN LAKE ESTATES/INTER. GMS3005A14850	28°25' 45"	80°46' 44"	10	Surficial	Intermediate	Existing

[62-520.600] [62-610.510]

6. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.5.:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	ft	In Situ	Semi-Annually; twice per year
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Semi-Annually; twice per year
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Semi-Annually; twice per year
Chloride (as Cl)	250	mg/L	Grab	Semi-Annually; twice per year
Coliform, Fecal	4	#/100mL	Grab	Semi-Annually; twice per year
pH	6.5-8.5	s.u.	Grab	Semi-Annually; twice per year
Turbidity	Report	NTU	Grab	Semi-Annually; twice per year

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

7. 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)] [62-610.510(3)(b)]
8. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-160.210] [62-600.670(3)]
9. 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)]
10. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.B.7. [62-520.600(11)(b)] [62-600.670] [62-600.680(1)] [62-620.610(18)]

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11. 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)(1)]*

IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

A. Part IV Rapid Infiltration Basins (RIBs)

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518]*
2. The maximum annual average loading rate to the RIBs shall be limited to 1.11 inches per day (as applied to the entire bottom area). *[62-610.523(3)]*
3. The RIBs normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4)]*
4. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. *[62-610.523(6) and (7)]*
5. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414]*
6. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-610.800(9)]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of 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 III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 1/2 hour/day for 5 days/week and one visit each weekend. The lead/chief operator must be a Class C operator, or higher.

2. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. *[62-699.311(1)]*

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

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

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3. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

C. Recordkeeping Requirements

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports required by 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)]

VI. SCHEDULES

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

Improvement Action	Completion Date
1. Submit an updated capacity analysis report in accordance with permit condition V.B.1.	Five years from the date of permit issuance

[62-620.320(6)]

2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
 - a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or

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- b. The permittee has made complete the application for renewal of this permit before the permit expiration date.

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

VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. [62-625.500]

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):
 - 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

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- 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. *[62-610.518(1) and 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)]*
13. The permittee shall provide notice to the Department of the following:
 - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.Notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility. If pretreatment becomes necessary, this permit may be modified to require the permittee to develop and implement a local pretreatment program in accordance with the requirements of Chapter 62-625, F.A.C.

[62-620.625(2)]

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)]*

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4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4)]*
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)]*

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12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
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.

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- 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)]*
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 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 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.

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(2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Central District Office within 24 hours from the time the permittee becomes aware of the circumstances.

- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Central District Office shall waive the written report.

[62-620.610(20)]

21. The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. *[62-620.610(21)]*

22. Bypass Provisions.

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
- b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
- (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Permit Condition IX.22.c. of this permit.
- c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.b.(1) through (3) of this permit.
- e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.b. through d. of this permit.

[62-620.610(22)]

23. Upset Provisions.

- a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
- (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.
 - (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;

PERMITTEE: Sun Lake Estates
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- (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



Reggie Phillips
Environmental Administrator
Permitting and Waste Cleanup Program

Attachment(s):
Discharge Monitoring Report

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME:	Sun Lake Estates Homeowners Association	PERMIT NUMBER:	FLA010353-007-DW3P	DMR EFFECTIVE DATE:	December 1, 2020
				EXPIRATION DATE:	October 27, 2030
MAILING ADDRESS:	5600 N Highway 1n Sharps, Florida 32927-	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Sun Lake Estates WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	616 Emerald Lake Dr Cocoa, FL 32926-4671	MONITORING GROUP DESCRIPTION:	Rapid Infiltration Basin, including Influent		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Brevard	MONITORING PERIOD	From: _____	To: _____	
OFFICE:	Central District				

Parameter		Quantity or Loading	Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Flow to R-001)	Sample Measurement									
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.099 (An.Avg.)	MGD						5 Days/Week	Flow Totalizer
Flow (Flow to R-001)	Sample Measurement									
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD						5 Days/Week	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		Monthly	Grab
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		Monthly	Grab
Solids, Total Suspended	Sample Measurement									
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement			20.0 (An.Avg.)			mg/L		Monthly	Grab
Solids, Total Suspended	Sample Measurement									
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement			60.0 (Max.)	45.0 (Max.Wk.Avg.)	30.0 (Mo.Avg.)	mg/L		Monthly	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: Sun Lake Estates WWTF

MONITORING GROUP R-001

PERMIT NUMBER: FLA010353-007-DW3P

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		Monthly	Grab
Coliform, Fecal	Sample Measurement									
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement				Report (Mo.Geo.Mn.)	800 (Max.)	#/100mL		Monthly	Grab
pH	Sample Measurement									
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)	8.5 (Max.)	s.u.		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement									
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)		mg/L		5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement									
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement					12.0 (Max.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement									
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement									
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement									
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement									
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Avg.)	mg/L		Monthly	Grab
Flow (Total Through Plant)	Sample Measurement									
PARM Code 50050 P Mon. Site No. FLW-1	Permit Requirement		0.099 (An.Avg.)	MGD					5 Days/Week	Flow Totalizer

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME: Sun Lake Estates Homeowners Association
 MAILING ADDRESS: 5600 N Highway 1n
 Sharps, Florida 32927-

PERMIT NUMBER: FLA010353-007-DW3P

FACILITY: Sun Lake Estates WWTF
 LOCATION: 616 Emerald Lake Dr
 Cocoa, FL 32926-4671

LIMIT: Final
 CLASS SIZE: N/A
 MONITORING GROUP NUMBER: R-001
 MONITORING GROUP DESCRIPTION: Rapid Infiltration Basin, including Influent

REPORT FREQUENCY: Annually
 PROGRAM: Domestic

COUNTY: Brevard
 OFFICE: Central District

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

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C (Influent)	Sample Measurement							
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement			Report (Mo.Avg.)	mg/L		Annually	Grab
Solids, Total Suspended (Influent)	Sample Measurement							
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement			Report (Mo.Avg.)	mg/L		Annually	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):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME: Sun Lake Estates Homeowners Association
 MAILING ADDRESS: 5600 N Highway 1n
 Sharps, Florida 32927-

PERMIT NUMBER: FLA010353-007-DW3P

FACILITY: Sun Lake Estates WWTF
 LOCATION: 616 Emerald Lake Dr
 Cocoa, FL 32926-4671

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

REPORT FREQUENCY: Monthly
 PROGRAM: Domestic

COUNTY: Brevard
 OFFICE: Central District

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

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

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

FLA010353-007-DW3P
From: _____ To: _____

Facility: Sun Lake Estates WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Flow (Flow to R-001) MGD	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	
Code	80082	50060	74055	50050	00620	00600	00665	00530	00400	
Mon. Site	EFA-1	EFA-1	EFA-1	FLW-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	
1										
2										
3										
4										
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22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total										
Mo. Avg.										

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Sun Lake Estates WWTF
 Permit Number: FLA010353-007-DW3P
 County: Brevard

Monitoring Well ID: MWB-1
 Well Type: Background
 Description: SUN LAKE
 ESTATES/BACK
 GMS3005A14849

Report Frequency: Semi-annually
 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	Semi-Annually; twice per year				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Coliform, Fecal	74055		Report	#/100mL	Grab	Semi-Annually; twice per year				
pH	00400		Report	s.u.	Grab	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	Grab	Semi-Annually; twice per year				

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: Sun Lake Estates WWTF
 Permit Number: FLA010353-007-DW3P
 County: Brevard

Monitoring Well ID: MWC-3
 Well Type: Compliance
 Description: SUN LAKE
 ESTATES/COMP.
 GMS3005A14851

Report Frequency: Semi-annually
 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	Semi-Annually; twice per year				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		500	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		250	mg/L	Grab	Semi-Annually; twice per year				
Coliform, Fecal	74055		4	#/100mL	Grab	Semi-Annually; twice per year				
pH	00400		6.5-8.5	s.u.	Grab	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	Grab	Semi-Annually; twice per year				

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: Sun Lake Estates WWTF
 Permit Number: FLA010353-007-DW3P
 County: Brevard

Monitoring Well ID: MWI-2
 Well Type: Intermediate
 Description: SUN LAKE
 ESTATES/INTER.
 GMS3005A14850

Report Frequency: Semi-annually
 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	Semi-Annually; twice per year				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Semi-Annually; twice per year				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Semi-Annually; twice per year				
Chloride (as Cl)	00940		Report	mg/L	Grab	Semi-Annually; twice per year				
Coliform, Fecal	74055		Report	#/100mL	Grab	Semi-Annually; twice per year				
pH	00400		Report	s.u.	Grab	Semi-Annually; twice per year				
Turbidity	00070		Report	NTU	Grab	Semi-Annually; twice per year				

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.

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

PERMIT NUMBER: FLA010353-007

FACILITY NAME: Sun Lake Estates

FACILITY LOCATION: 616 Emerald Lake Dr, Cocoa, FL 32926-4671
Brevard County

NAME OF PERMITTEE: Thad Terry, Owner, Sun Lake Estates

PERMIT WRITER: Mohamed Abouelkheir

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA010353-007-DW3P

Application Submittal Date: February 24, 2020

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: Private

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity: 0.099 MGD Annual Average Daily Flow

Proposed Increase in Permitted Capacity: 0.00 MGD Annual Average Daily Flow

Proposed Total Permitted Capacity: 0.099 MGD Annual Average Daily Flow

d. Description of Wastewater Treatment

This is an existing 0.099 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant (designed capacity 0.135 MGD AADF) consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

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

Land Application R-001 is an existing 0.206 MGD annual average daily flow designed capacity rapid infiltration basin (RIB) system limited to 0.099 MGD AADF, the permitted capacity of the treatment plant. R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins with a total wetted area of 6.82 acres located approximately at latitude 28°25' 34" N, longitude 80°46' 43" W.

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not discharge to surface waters.

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

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

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Flow to R-001)	MGD	Max	0.099	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
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.420(3)(b)1. FAC
		Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(b)2. FAC
		Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(b)3. FAC
		Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(b)4. FAC
Coliform, Fecal	#/100mL	Max	200	Annual Average	62-610.510 & 62-600.440(5)(a)1. FAC
		Max	800	Single Sample	62-610.510 & 62-600.440(5)(a)4. FAC
		Max	Report	Monthly Geometric Mean	62-610.510 & 62-600.440(5)(a)2. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-610.510 & 62-600.440(5)(c) FAC
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	62-610.510(1) FAC
Nitrogen, Total	mg/L	Max	Report	Annual Average	62-600.650(3), F.A.C.
		Max	Report	Monthly Average	62-600.650(3), F.A.C.
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-600.650(3), F.A.C.
		Max	Report	Monthly Average	62-600.650(3), F.A.C.

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Total Through Plant)	MGD	Max	0.099	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	Quarterly Average	62-600.700(2)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	62-600.650(3) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	62-600.650(3) 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

This facility does not discharge to surface waters. However, the R-001 land application system is in a nutrient-impaired basin (Upper St. Johns Basin), although there is no assessment available for the Lake Wilson Canal Outlet WBID 3048. When effluent is land applied it infiltrates into groundwater and has the potential to deliver nutrient loads to the aquifer and hydrologically connected surface waters. Monitoring for total nitrogen and total phosphorus is included for R-001, land application system in permit condition, in order to provide reasonable assurance that the discharge to ground waters will not cause or contribute to the nutrient impairment in the basin.

5. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA010353-007-DW3P expires on October 27, 2030.

6. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to Brevard County Regional Facility (FLA0102695) or disposed of in a Class I solid waste landfill.

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

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. 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, 601, 610, and 620, F.A.C.

8. PERMIT SCHEDULES

Improvement Action	Completion Date
1. Submit an updated capacity analysis report in accordance with permit condition V.B.1.	Five years from the effective date of the permit

9. INDUSTRIAL PRETREATMENT REQUIREMENTS

At this time, the facility is not required to develop an approved industrial pretreatment program. However, the Department reserves the right to require an approved program if future conditions warrant.

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

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

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 during normal business hours at the location specified in item 14. Copies will be provided at a minimal charge per page.

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Permit Issuance

May 1, 2020

14. DEP CONTACT

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

Mohamed Abouelkheir, Engineering Specialist
Mohamed.Abouelkheir@FloridaDep.gov
Central District Office

3319 Maguire Blvd
Suite 232
Orlando, FL 32803-3767

Telephone No.: (407)897-2966

WASTEWATER MALFUNCTION / ABNORMAL EVENT REPORT

This form is provided for your convenience only. You may complete this form and email to DEP_CD@dep.state.fl.us. If the spill is greater than 1000 gallons you MUST call the State Watch Office at 1-800-320-0519. All items with an asterisk (*) are required by rule and must be completed.

*FACILITY NAME: <u>Sunlake Estates</u>	*FACILITY TYPE: Choose One
*PERMIT NUMBER: <u>FLA 010353-007-DW3P</u>	*COUNTY: Choose One
*REPORTER NAME: <u>Jerry Padrick</u>	*RESPONSIBLE PARTY: <u>TRCB Thad Teaney</u>
*REPORTER ADDRESS: <u>4220 Temple St Cocoa 32926</u>	*RESPONSIBLE PARTY ADDRESS: <u>5600 North Hwy 1</u>
*REPORTER PHONE: <u>321-508-1474</u>	*RESPONSIBLE PARTY PHONE: <u>321-639-1124</u>
*DEP: <input checked="" type="checkbox"/>	*DATE: <u>9-12-20</u> *TIME: <u>10:00 AM</u> *PERSON CONTACTED: <u>Carolyn Hall</u>
*STATE WATCH OFFICE: <input type="checkbox"/>	INCIDENT NUMBER: _____

SPILL INFORMATION

*SPILL CHARACTERISTIC	*SOURCE	*AREA AFFECTED
<input checked="" type="checkbox"/> UNTREATED/RAW	<input type="checkbox"/> LIFT STATION # _____	<input checked="" type="checkbox"/> STORM WATER
<input type="checkbox"/> PARTIALLY TREATED	<input checked="" type="checkbox"/> MANHOLE	<input type="checkbox"/> SURFACE WATER/ _____
<input type="checkbox"/> TREATED	<input type="checkbox"/> FORCE MAIN/GRAVITY LINE	<input checked="" type="checkbox"/> GROUND
<input type="checkbox"/> REUSE/RECLAIMED	<input type="checkbox"/> DISPOSAL SYSTEM	<input type="checkbox"/> CONTAINMENT AREA
<input type="checkbox"/> OTHER _____	<input type="checkbox"/> OTHER _____	<input type="checkbox"/> OTHER/ _____
	<input type="checkbox"/> SURGE TANK	
	<input type="checkbox"/> AERATION TANK	
	<input type="checkbox"/> CLARIFIER	
	<input type="checkbox"/> DIGESTER	
	<input type="checkbox"/> CHLORINE CONTACT TANK	

*DATE / TIME DISCHARGE / MALFUNCTION OCCURRED: 9-12-20 1:30 PM

*AMOUNT OF DISCHARGE: 500-700 GALLONS

*AMOUNT RECOVERED: 0 GALLONS

*ONGOING: *CEASED:

*PHYSICAL LOCATION / ADDRESS / LATITUDE & LONGITUDE:

*MALFUNCTION/CAUSE

<input type="checkbox"/> PUMP FAILURE <input type="checkbox"/> BLOWER FAILURE <input type="checkbox"/> SWITCH/TIMER FAILURE <input type="checkbox"/> CLARIFIER FAILURE <input type="checkbox"/> FILTER BYPASS/FAILURE <input type="checkbox"/> DISINFECTION SYSTEM FAILURE <input type="checkbox"/> OTHER _____	<input type="checkbox"/> LINE BREAK <input type="checkbox"/> FATS/OILS/GREASE BLOCKAGE <input checked="" type="checkbox"/> OTHER CLOG OR BLOCKAGE <input type="checkbox"/> POWER OUTAGE/FAILURE <input type="checkbox"/> ACCIDENT <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OUTSIDE CONTRACTOR <u>Septic illegal Dump</u>	<p style="text-align: center;"><u>WEATHER</u></p> <input type="checkbox"/> LIGHTNING <input checked="" type="checkbox"/> HEAVY RAINFALL <input type="checkbox"/> HIGH WINDS <input type="checkbox"/> TROPICAL STORM: <u>Sally Bands</u> <input type="checkbox"/> HURRICANE: _____ <input type="checkbox"/> OTHER: _____
*EXPLAIN: _____		

*EFFLUENT LIMIT VIOLATIONS

<input type="checkbox"/> CL ₂ _____ MG/L	<input type="checkbox"/> TURBIDITY _____ NTU	<input type="checkbox"/> PH _____ SU
<input type="checkbox"/> TSS _____ MG/L	<input type="checkbox"/> NO ₃ _____ MG/L	<input type="checkbox"/> CBOD ₅ _____ MG/L
<input type="checkbox"/> OTHER _____	<input type="checkbox"/> FECAL COLIFORMS _____ CFU/100ML	<input type="checkbox"/> ABNORMAL FLOW _____ MGD

*CORRECTIVE / REMEDIAL ACTION BEING TAKEN

<input type="checkbox"/> LINE REPAIRED <input checked="" type="checkbox"/> DISINFECTED WITH <u>Lime</u> <input type="checkbox"/> WASHED DOWN <input type="checkbox"/> VAC TRUCK/DESTINATION _____	<input type="checkbox"/> CONTAINED ON-SITE <input type="checkbox"/> SAMPLES TAKEN (IF SURFACE WATERS IMPACTED) <input type="checkbox"/> SIGNS POSTED NEAR AFFECTED WATERS <input type="checkbox"/> REPAIRED/REPLACED EQUIPMENT	<input type="checkbox"/> RESTORED POWER <input type="checkbox"/> AUXILIARY POWER SYSTEM ON-LINE <input type="checkbox"/> BACK-UP ON-LINE <input type="checkbox"/> OTHER _____
--	---	--

*REMEDIAL ACTIONS BEING TAKEN / ESTIMATED TIME FOR COMPLETION OF REPAIRS:

330 PM Plumber Cleaned Manhole Completely fill with Sand Wipes

PREVENTATIVE PLANS/MEASURES

PLEASE DESCRIBE HOW YOU INTEND TO PREVENT SIMILAR OCCURRENCES IN THE FUTURE:

I handed out my card to nearby home owners & offered a 25th reward if they see that Truck again. This has never happened in 20 years as operators.



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

MEMO TO FILE

September 21, 2020

Sunlake Estates WWTF
Facility ID No.: FLA010353
Brevard County

Subject: Sanitary Sewer Overflow

The Department acknowledges the September 12, 2020 Sanitary Sewer overflow of 700 gallons of raw wastewater. Based on the information provided after the event, this action was determined to not have substantial impact to the environment and was appropriately addressed. Therefore, the Department is not initiating formal enforcement proceedings at this time. This memorandum does not preclude further action in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes.

Helena Dacenay
Environmental Specialist II
Central District

From: [Jeffrey tuttle](#)
To: [DEP_CD](#)
Subject: Wastewater Abnormal event 5 day Report
Date: Tuesday, October 19, 2021 9:08:58 AM
Attachments: [WastewaterAbnormalEvent5DayReport\[7915\]Digester spill 10-6-2021.pdf](#)

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Attached you should find report originally sent on 10-12-2021 to Carolyn Hall.

For questions please call 772-201-3706

Jeffrey M Tuttle
Operator
Sun lake WWTF



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Interim Secretary

Wastewater Abnormal Event 5 Day Report

This form is provided for your convenience only, in order to report the required information to Florida DEP. You may complete this form and email to the appropriate District office, as listed below.

Northwest District - NWD_WastewaterCompliance@floridadep.gov

Southeast District - SED.Wastewater@dep.state.fl.us

Northeast District - DEP_NED@floridadep.gov

South District - SD-AbnormalEvents@floridadep.gov

Southwest District - SWD_DW@floridadep.gov

Central District - DEP_CD@floridadep.gov

These incidents, and the corresponding Public Notice of Pollution, may also be reported through the [DEP Business Portal](#). If it is preferred to submit these separately, the PNP may be submitted [here](#). If the spill is greater than 1000 gallons, it MUST be reported to the **State Watch Office** at 1-800-320-0519 and a PNP MUST be submitted. All fields with an asterisk (*) must be completed as they are required by rule 62-620.610, F.A.C.

Responsible Party Information

*Facility Name: SUN LAKE ESTATE WWTF

*Permit Number: FLA010353-006DW3P

*Facility Type: Domestic

*County: Brevard

*Reporter Name: Jeffrey M Tuttle

*Reporter Phone: 772-201-3706

*Reporter Email: jeff@accurateutilitiesinc.net

*Reporter Address: 397 Benschop St Sebastian Fla 32958

*Responsible Party Name: Operator Jeffrey M Tuttle Plant owners Sun lake Estate Homeowners Assoc.

*Responsible Party Address: 397 Benschop St Sebastian FL 32958 / 5600 N US HWY 1 Cocoa FI 32926-

*Responsible Party Phone: 772-201-3706 (Operators cell #)

*Responsible Party Email: Jeff@Accurateutilitiesinc.net

Who was contacted?

DEP

*Date and Time:

10/6/2021 16:24

*Person contacted:

Carolyn Hall

State Watch Office

*Date and Time:

*Incident Number:

Other

*Date and Time:

*Person contacted:

Spill Information

*Spill Characteristic / Wastewater: Biosolids

*Type Source: Other Digester

*Area affected: Ground

*Date / Time Discharge Began: 10/6/2021 11:00
*Amount Discharged (in gallons): 400.00
*Amount Recovered (in gallons): 250.00
*Date / Time Discharge Ceased: 10/6/2021 16:15
*Physical Address: 616 Emerald Lake Dr Cocoa FL 32926-4648
*Latitude/Longitude:

*Malfunction/Cause: Blockage

Effluent Limit Violations

- | | |
|---|---|
| <input type="checkbox"/> CL ₂ (mg/L) | <input type="checkbox"/> Fecal Coliforms (CFU/100 mL) |
| <input type="checkbox"/> TSS (mg/L) | <input type="checkbox"/> pH (SU) |
| <input type="checkbox"/> Turbidity (NTU) | <input type="checkbox"/> CBOD ₅ (mg/L) |
| <input type="checkbox"/> NO ₃ (mg/L) | <input type="checkbox"/> Abnormal Flow (MGD) |
| <input type="checkbox"/> Other | |

*Clean Up Status:

***Clean Up Actions:**

- | | |
|--|--|
| <input type="checkbox"/> Vacuumed/Pump Truck | <input type="checkbox"/> Washed down area |
| <input type="checkbox"/> Applied Disinfectant | <input type="checkbox"/> Water samples/field measurements taken |
| <input checked="" type="checkbox"/> Applied Lime | <input checked="" type="checkbox"/> Raked and disposed of debris |
| <input checked="" type="checkbox"/> Applied HTH/chlorine | <input type="checkbox"/> Signs posted |
| <input type="checkbox"/> Applied absorbents | <input type="checkbox"/> Other |

Sampling results / Field readings:

***Incident Description and Remedial Action Being Taken** (Include estimated time for completion):

While wasting a blockage stopped supernate from flowing to surge tank. As digester topped off a leak was detected around a pipe that feeds WAS to a secondary digester. Hydraulic cement being applied around pipe to repair.

***Future Preventative Measures:**

Above mentioned repair



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

MEMO TO FILE

October 21, 2021

Sun Lake Estates WWTF
Facility ID No.: FLA010353
Brevard County

Subject: Sanitary Sewer Overflow at 616 Emerald Lake Drive

The Department acknowledges that Sun Lake Estates WWTF has reported a Sanitary Sewer overflow of 400 gallons of partially treated wastewater on October 6, 2021. The Department acknowledges receipt of the necessary information related to the spill. The Department is not initiating formal enforcement proceedings at this time; however, this memorandum does not preclude the referenced spill from further action in the future in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes.

Amanda Mahalek
Environmental Specialist II
Central District



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

MEMO TO FILE

January 26, 2022

Sun Lake Estates
Facility ID No.: FLA010353
Brevard County

Subject: Sanitary Sewer Overflow at 616 Emerald Lake Drive

The Department acknowledges that Sun Lake Estates has reported a Sanitary Sewer overflow of 1500 gallons of partially treated wastewater during December 23, 2021. The Department acknowledges receipt of the necessary information related to the spill. The Department is not initiating formal enforcement proceedings at this time; however, this memorandum does not preclude the referenced spill from further action in the future in accordance with Sections 403.121, 403.131, 403.141 and 403.161, Florida Statutes.

Trey Stamm
OPS Environmental Specialist I
Central District

EXHIBIT M

WASTEWATER TARIFF

TKCB
NAME OF COMPANY

FILED WITH
FLORIDA PUBLIC SERVICE COMMISSION

WASTEWATER TARIFF

TKCB
NAME OF COMPANY

5600 North Cocoa Boulevard

Cocoa, Florida 32927-6079
(ADDRESS OF COMPANY)

(321) 631-8440
(Business & Emergency Telephone Number)

FILED WITH
FLORIDA PUBLIC SERVICE COMMISSION

WS-16-0028

THAD A. TERRY
ISSUING OFFICER

PRESIDENT
TITLE

WASTEWATER TARIFF

TABLE OF CONTENTS

	<u>Sheet Number</u>
Communities Served Listing	4.0
Description of Territory Served	3.1
Index of	
Rates and Charges Schedules	11.0
Rules and Regulations	6.0
Service Availability Policy and Charges	16.0
Standard Forms	19.0
Technical Terms and Abbreviations	5.0
Territory Authority	3.0

TERRITORY AUTHORITY

CERTIFICATE NUMBER – 562-S

COUNTY – Brevard

COMMISSION ORDER(s) APPROVING TERRITORY SERVED -

<u>Order Number</u>	<u>Date Issued</u>	<u>Docket Number</u>	<u>Filing Type</u>
PSC-11-0522-FOF-SU	11/07/2011	100442-SU	Original Certificate

DESCRIPTION OF TERRITORY SERVED

The following territory in Brevard County, Florida

Township 24 South, Range 35 East

Section 1

A PARCEL OF LAND LYING IN THE EAST ½ OF SECTION 1, TOWNSHIP 24 SOUTH, RANGE 35 EAST, BEING A PORTION OF CANAVERAL GROVES SUBDIVISION, PHASES 1 AND 2, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH ¼ CORNER OF SAID SECTION 1 AND RUN S 01° 01' 56" W ALONG THE WEST LINE OF THE NORTHEAST ¼, A DISTANCE OF 50 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF CANAVERAL GROVES BOULEVARD, THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 01° 01' 56" WEST ALONG SAID WEST LINE, A DISTANCE OF 1362.29 FEET; THENCE SOUTH 88° 45' 34" EAST, A DISTANCE OF 320 FEET MORE OR LESS; THENCE SOUTH 1650 FEET MORE OR LESS TO A POINT 150 FEET SOUTH OF EMERALD LAKES DRIVE; THENCE EAST 1000 FEET MORE OR LESS TO THE WEST RIGHT-OF-WAY LINE OF SHARPES LAKE AVENUE; THENCE NORTHWESTERLY ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 1700 FEET MORE OR LESS TO A POINT; THENCE NORTH A DISTANCE OF 450 FEET MORE OR LESS TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF LAKE ERIE PLACE; THENCE SOUTH 88° 45' 34" EAST A DISTANCE OF 560 FEET MORE OR LESS TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF LAKE SUPERIOR DRIVE; THENCE NORTH 01° 14' 26" EAST A DISTANCE OF 50 FEET; THENCE SOUTH 88° 45' 34" EAST A DISTANCE OF 70.25 FEET; THENCE NORTH 01° 14' 48" EAST A DISTANCE OF 108.18 FEET; THENCE SOUTH 88° 29' 58" EAST A DISTANCE OF 25 FEET; THENCE NORTH 01° 14' 48" EAST A DISTANCE OF 1225.69 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF CANAVERAL GROVES BOULEVARD; THENCE NORTH 88° 28' 48" WEST A DISTANCE OF 1338.84 FEET TO THE POINT OF BEGINNING.

COMMUNITIES SERVED LISTING

<u>County Name</u>	<u>Development Name</u>	<u>Rate Schedule Available</u>	<u>Sheet No.</u>
Brevard	Sun Lake Village Estates	GS, RS	12.0, 13.0

TECHNICAL TERMS AND ABBREVIATIONS

- 1.0 "BFC" - The abbreviation for "Base Facility Charge" which is the minimum amount the Company may charge its Customers and is separate from the amount the Company bills its Customers for wastewater consumption.
- 2.0 "CERTIFICATE" - A document issued by the Commission authorizing the Company to provide wastewater service in a specific territory.
- 3.0 "COMMISSION" - The shortened name for the Florida Public Service Commission.
- 4.0 "COMMUNITIES SERVED" - The group of Customers who receive wastewater service from the Company and whose service location is within a specific area or locality that is uniquely separate from another.
- 5.0 "COMPANY" - The shortened name for the full name of the utility which is TKCB
- 6.0 "CUSTOMER" - Any person, firm or corporation who has entered into an agreement to receive wastewater service from the Company and who is liable for the payment of that wastewater service.
- 7.0 "CUSTOMER'S INSTALLATION" - All pipes, shut-offs, valves, fixtures and appliances or apparatus of every kind and nature used in connection with or forming a part of the installation for rendering wastewater service to the Customer's side of the Service Connection whether such installation is owned by the Customer or used by the Customer under lease or other agreement.
- 8.0 "MAIN" - A pipe, conduit, or other facility used to convey wastewater service to individual service lines or through other mains.
- 9.0 ARATE@ - Amount which the Company may charge for wastewater service which is applied to the Customer=s actual consumption.
- 10.0 "RATE SCHEDULE" - The rate(s) or charge(s) for a particular classification of service plus the several provisions necessary for billing, including all special terms and conditions under which service shall be furnished at such rate or charge.
- 11.0 "SERVICE" - As mentioned in this tariff and in agreement with Customers, AService@ shall be construed to include, in addition to all wastewater service required by the Customer, the readiness and ability on the part of the Company to furnish wastewater service to the Customer. Service shall conform to the standards set forth in Section 367.111 of the Florida Statutes.
- 12.0 "SERVICE CONNECTION" - The point where the Company's pipes or meters are connected with the pipes of the Customer.
- 13.0 "SERVICE LINES" - The pipes between the Company's Mains and the Service Connection and which includes all of the pipes, fittings and valves necessary to make the connection to the Customer's premises, excluding the meter.
- 14.0 "TERRITORY" - The geographical area described, if necessary, by metes and bounds but, in all cases, with township, range and section in a Certificate, which may be within or without the boundaries of an incorporated municipality and may include areas in more than one county.

INDEX OF RULES AND REGULATIONS

	<u>Sheet Number:</u>	<u>Rule Number:</u>
Access to Premises	9.0	12.0
Adjustment of Bills	10.0	20.0
Application	7.0	3.0
Applications by Agents	7.0	4.0
Change of Customer's Installation	8.0	10.0
Continuity of Service	8.0	8.0
Customer Billing	9.0	15.0
Delinquent Bills	9.0	17.0
Evidence of Consumption	10.0	22.0
Extensions	7.0	6.0
Filing of Contracts	10.0	21.0
General Information.....	7.0	1.0
Inspection of Customer's Installation.....	8.0	11.0
Limitation of Use.....	8.0	9.0
Payment of Water and Wastewater Service Bills Concurrently	9.0	16.0
Protection of Company's Property.....	9.0	13.0
Refusal or Discontinuance of Service	7.0	5.0
Right-of-way or Easements	9.0	14.0
Tariff Dispute	7.0	2.0
Termination of Service	10.0	18.0
Type and Maintenance.....	7.0	7.0
Unauthorized Connections - Wastewater.....	10.0	19.0

RULES AND REGULATIONS

- 1.0 GENERAL INFORMATION - These Rules and Regulations are a part of the rate schedules and applications and contracts of the Company and, in the absence of specific written agreement to the contrary, apply without modifications or change to each and every Customer to whom the Company renders wastewater service.
- The Company shall provide wastewater service to all Customers requiring such service within its Certificated territory pursuant to Chapter 25-30, Florida Administrative Code and Chapter 367, Florida Statutes.
- 2.0 TARIFF DISPUTE – Any dispute between the Company and the Customer or prospective Customer regarding the meaning or application of any provision of this tariff shall be resolved pursuant to Rule 25-22.032, Florida Administrative Code.
- 3.0 APPLICATION - In accordance with Rule 25-30.310, Florida Administrative Code, a signed application is required prior to the initiation of service. The Company shall provide each Applicant with a copy of the brochure entitled “Your Water and Wastewater Service,” prepared by the Florida Public Service Commission.
- 4.0 APPLICATIONS BY AGENTS - Applications for wastewater service requested by firms, partnerships, associations, corporations, and others shall be rendered only by duly authorized parties or agents.
- 5.0 REFUSAL OR DISCONTINUANCE OF SERVICE - The Company may refuse or discontinue wastewater service rendered under application made by any member or agent of a household, organization, or business in accordance with Rule 25-30.320, Florida Administrative Code.
- 6.0 EXTENSIONS - Extensions will be made to the Company's facilities in compliance with Commission Rules and Orders and the Company's tariff.
- 7.0 TYPE AND MAINTENANCE - In accordance with Rule 25-30.545, Florida Administrative Code, the Customer's pipes, apparatus and equipment shall be selected, installed, used and maintained in accordance with standard practice and shall conform with the Rules and Regulations of the Company and shall comply with all laws and governmental regulations applicable to same. The Company shall not be responsible for the maintenance and operation of the Customer's pipes and facilities. The Customer expressly agrees not to utilize any appliance or device which is not properly constructed, controlled and protected or which may adversely affect the wastewater service. The Company reserves the right to discontinue or withhold wastewater service to such apparatus or device.

(Continued on Sheet No. 8.0)

(Continued from Sheet No. 7.0)

- 8.0 CONTINUITY OF SERVICE - In accordance with Rule 25-30.250, Florida Administrative Code, the Company will at all times use reasonable diligence to provide continuous wastewater service and, having used reasonable diligence, shall not be liable to the Customer for failure or interruption of continuous wastewater service.

If at any time the Company shall interrupt or discontinue its service, all Customers affected by said interruption or discontinuance shall be given not less than 24 hours written notice.

- 9.0 LIMITATION OF USE - Wastewater service purchased from the Company shall be used by the Customer only for the purposes specified in the application for wastewater service. Wastewater service shall be rendered to the Customer for the Customer's own use and the Customer shall not sell or otherwise dispose of such wastewater service supplied by the Company.

In no case shall a Customer, except with the written consent of the Company, extend his lines across a street, alley, lane, court, property line, avenue, or other way in order to furnish wastewater service to the adjacent property through one meter even though such adjacent property may be owned by him. In case of such unauthorized extension, sale, or disposition of service, the Customer's wastewater service will be subject to discontinuance until such unauthorized extension, remetering, sale or disposition of service is discontinued and full payment is made to the Company for wastewater service rendered by the Company (calculated on proper classification and rate schedules) and until reimbursement is made in full to the Company for all extra expenses incurred for clerical work, testing, and inspections. (This shall not be construed as prohibiting a Customer from remetering.)

- 10.0 CHANGE OF CUSTOMER'S INSTALLATION - No changes or increases in the Customer's installation, which will materially affect the proper operation of the pipes, mains, or stations of the Company, shall be made without written consent of the Company. The Customer shall be liable for any charge resulting from a violation of this Rule.

- 11.0 INSPECTION OF CUSTOMER'S INSTALLATION - All Customer's wastewater service installations or changes shall be inspected upon completion by a competent authority to ensure that the Customer's piping, equipment, and devices have been installed in accordance with accepted standard practice and local laws and governmental regulations. Where municipal or other governmental inspection is required by local rules and ordinances, the Company cannot render wastewater service until such inspection has been made and a formal notice of approval from the inspecting authority has been received by the Company.

Notwithstanding the above, the Company reserves the right to inspect the Customer's installation prior to rendering wastewater service, and from time to time thereafter, but assumes no responsibility whatsoever for any portion thereof.

(Continued on Sheet No. 9.0)

(Continued from Sheet No. 8.0)

- 12.0 ACCESS TO PREMISES - In accordance with Rule 25-30.320(2)(f), Florida Administrative Code, the Customer shall provide the duly authorized agents of the Company access at all reasonable hours to its property. If reasonable access is not provided, service may be discontinued pursuant to the above rule.
- 13.0 PROTECTION OF COMPANY'S PROPERTY – The Customer shall exercise reasonable diligence to protect the Company's property. If the Customer is found to have tampered with any Company property or refuses to correct any problems reported by the Company, service may be discontinued in accordance with Rule 25-30.320, Florida Administrative Code. In the event of any loss or damage to property of the Company caused by or arising out of carelessness, neglect, or misuse by the Customer, the cost of making good such loss or repairing such damage shall be paid by the Customer.
- 14.0 RIGHT-OF-WAY OR EASEMENTS - The Customer shall grant or cause to be granted to the Company, and without cost to the Company, all rights, easements, permits, and privileges which are necessary for the rendering of wastewater service.
- 15.0 CUSTOMER BILLING - Bills for wastewater service will be rendered - Monthly, Bimonthly, or Quarterly - as stated in the rate schedule.

In accordance with Rule 25-30.335, Florida Administrative Code, the Company may not consider a Customer delinquent in paying his or her bill until the twenty-first day after the Company has mailed or presented the bill for payment.

A municipal or county franchise tax levied upon a water or wastewater public Company shall not be incorporated into the rate for water or wastewater service but shall be shown as a separate item on the Company's bills to its Customers in such municipality or county.

If a Company utilizes the base facility and usage charge rate structure and does not have a Commission authorized vacation rate, the Company shall bill the Customer the base facility charge regardless of whether there is any usage.

- 16.0 PAYMENT OF WATER AND WASTEWATER SERVICE BILLS CONCURRENTLY - In accordance with Rule 25-30.320(2)(g), Florida Administrative Code, when both water and wastewater service are provided by the Company, payment of any wastewater service bill rendered by the Company to a Customer shall not be accepted by the Company without the simultaneous or concurrent payment of any water service bill rendered by the Company.
- 17.0 DELINQUENT BILLS – When it has been determined that a Customer is delinquent in paying any bill, wastewater service may be discontinued after the Company has mailed or presented a written notice to the Customer in accordance with Rule 25-30.320, Florida Administrative Code.

(Continued on Sheet No. 10.0)

(Continued from Sheet No. 9.0)

- 18.0 TERMINATION OF SERVICE - When a Customer wishes to terminate service on any premises where wastewater service is supplied by the Company, the Company may require reasonable notice to the Company in accordance with Rule 25-30.325, Florida Administrative Code.
- 19.0 UNAUTHORIZED CONNECTIONS - WASTEWATER - Any unauthorized connections to the Customer's wastewater service shall be subject to immediate discontinuance without notice, in accordance with Rule 25-30.320, Florida Administrative Code.
- 20.0 ADJUSTMENT OF BILLS - When a Customer has been undercharged as a result of incorrect application of the rate schedule, incorrect reading of the meter, incorrect connection of the meter, or other similar reasons, the amount may be refunded or billed to the Customer as the case may be pursuant to Rules 25-30.340 and 25-30.350, Florida Administrative Code.
- 21.0 FILING OF CONTRACTS - Whenever a Developer Agreement or Contract, Guaranteed Revenue Contract, or Special Contract or Agreement is entered into by the Company for the sale of its product or services in a manner not specifically covered by its Rules and Regulations or approved Rate Schedules, a copy of such contracts or agreements shall be filed with the Commission prior to its execution in accordance with Rule 25-9.034 and Rule 25-30.550, Florida Administrative Code. If such contracts or agreements are approved by the Commission, a conformed copy shall be placed on file with the Commission within 30 days of execution.
- 22.0 EVIDENCE OF CONSUMPTION - The initiation or continuation or resumption of water service to the Customer's premises shall constitute the initiation or continuation or resumption of wastewater service to the Customer's premises regardless of occupancy.

INDEX OF RATES AND CHARGES SCHEDULES

	<u>Sheet Number</u>
Customer Deposits.....	14.0
General Service, GS	12.0
Miscellaneous Service Charges.....	15.0
Residential Service, RS	13.0

GENERAL SERVICE

RATE SCHEDULE (GS)

- AVAILABILITY - Available throughout the area served by the Company.
- APPLICABILITY - For wastewater service to all Customers for which no other schedule applies.
- LIMITATIONS - Subject to all of the Rules and Regulations of this tariff and General Rules and Regulations of the Commission.

BILLING PERIOD - Monthly

RATE -

<u>Meter Sizes</u>	<u>Base Facility Charge</u>
5/8" x 3/4"	\$ 18.05
3/4"	\$ 27.08
1"	\$ 45.13
1 1/2"	\$ 90.25
2"	\$ 144.40
3"	\$ 288.80
4"	\$ 451.25
6"	\$ 902.50
Charge per 1,000 gallons	\$ 7.63

MINIMUM CHARGE - Base Facility Charge

TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for wastewater service, service may then be discontinued.

EFFECTIVE DATE - June 18, 2022

TYPE OF FILING - 2022 Price Index

RESIDENTIAL SERVICE

RATE SCHEDULE (RS)

- AVAILABILITY - Available throughout the area served by the Company.
- APPLICABILITY - For wastewater service for all purposes in private residences and individually metered apartment units.
- LIMITATIONS - Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.
- BILLING PERIOD - Monthly
- RATE -
- | <u>Meter Size</u> | <u>Base Facility Charge</u> |
|---|-----------------------------|
| All meter sizes | \$18.05 |
| Charge per 1,000 gallons
6,000 gallons cap | \$ 6.36 |
- MINIMUM CHARGE - Base Facility Charge
- TERMS OF PAYMENT - Bills are due and payable when rendered. In accordance with Rule 25-30.320, Florida Administrative Code, if a Customer is delinquent in paying the bill for wastewater service, service may then be discontinued.

EFFECTIVE DATE - June 18, 2022

TYPE OF FILING - 2022 Price Index

WS-2022-0045

THAD A. TERRY
ISSUING OFFICER

PRESIDENT
TITLE

CUSTOMER DEPOSITS

ESTABLISHMENT OF CREDIT - Before rendering wastewater service, the Company may require an Applicant for service to satisfactorily establish credit, but such establishment of credit shall not relieve the Customer from complying with the Company's rules for prompt payment. Credit will be deemed so established if the Customer complies with the requirements of Rule 25-30.311, Florida Administrative Code.

AMOUNT OF DEPOSIT - The amount of initial deposit shall be the following according to meter size:

<u>Residential Service</u>	<u>General Service</u>
N/A	N/A

ADDITIONAL DEPOSIT - Under Rule 25-30.311(7), Florida Administrative Code, the Company may require a new deposit, where previously waived or returned, or an additional deposit in order to secure payment of current bills provided.

INTEREST ON DEPOSIT - The Company shall pay interest on Customer deposits pursuant to Rules 25-30.311(4) and (4a).

REFUND OF DEPOSIT - After a residential Customer has established a satisfactory payment record and has had continuous service for a period of 23 months, the Company shall refund the Customer's deposit provided the Customer has met the requirements of Rule 25-30.311(5), Florida Administrative Code. The Company may hold the deposit of a non-residential Customer after a continuous service period of 23 months and shall pay interest on the non-residential Customer's deposit pursuant to Rules 25-30.311(4) and (5), Florida Administrative Code.

Nothing in this rule shall prohibit the Company from refunding a Customer's deposit in less than 23 months.

EFFECTIVE DATE - March 31, 2016

TYPE OF FILING - Reorganization to Conform to Model Tariff

MISCELLANEOUS SERVICE CHARGES

The Company may charge the following miscellaneous service charges in accordance with the terms stated herein. If both water and wastewater services are provided, only a single charge is appropriate unless circumstances beyond the control of the Company require multiple actions.

INITIAL CONNECTION - This charge may be levied for service initiation at a location where service did not exist previously.

NORMAL RECONNECTION - This charge may be levied for transfer of service to a new Customer account at a previously served location or reconnection of service subsequent to a Customer requested disconnection.

VIOLATION RECONNECTION - This charge may be levied prior to reconnection of an existing Customer after disconnection of service for cause according to Rule 25-30.320(2), Florida Administrative Code, including a delinquency in bill payment.

PREMISES VISIT CHARGE (IN LIEU OF DISCONNECTION) - This charge may be levied when a service representative visits a premises for the purpose of discontinuing service for nonpayment of a due and collectible bill and does not discontinue service because the Customer pays the service representative or otherwise makes satisfactory arrangements to pay the bill.

Schedule of Miscellaneous Service Charges

Initial Connection Charge	N/A
Normal Reconnection Charge	N/A
Violation Reconnection Charge	N/A
Premises Visit Charge (in lieu of disconnection)	N/A

EFFECTIVE DATE - March 31, 2016

TYPE OF FILING - Reorganization to Conform to Model Tariff

WS-16-0028

THAD A. TERRY
ISSUING OFFICER

PRESIDENT
TITLE

INDEX OF SERVICE AVAILABILITY POLICY AND CHARGES

<u>Description</u>	<u>Sheet Number</u>
Schedule of Charges.....	18.0
Service Availability Policy.....	17.0

SERVICE AVAILABILITY POLICY

The Utility's current service territory is built out and there are no approved service availability charges.

SERVICE AVAILABILITY CHARGES

N/A

EFFECTIVE DATE - March 31, 2016

TYPE OF FILING - Reorganization to Conform to Model Tariff

WS-16-0028

THAD A. TERRY
ISSUING OFFICER

PRESIDENT
TITLE

INDEX OF STANDARD FORMS

<u>Description</u>	<u>Sheet No.</u>
APPLICATION FOR WASTEWATER SERVICE.....	20.0
COPY OF CUSTOMER'S BILL.....	21.0

APPLICATION FOR WASTEWATER SERVICE

N/A

WS-16-0028

THAD A. TERRY
ISSUING OFFICER

PRESIDENT
TITLE

COPY OF CUSTOMER'S BILL

The customer's are billed by the City of Cocoa.

EXHIBIT N

TKCB, INC.
COMPARATIVE BALANCE SHEET
DECEMBER 31, 2021

Acct#	Account Name	Year End	
		Current	Previous
Assets and Other Debits			
101	Utility Plant in Service	F-5 \$ 82,875	\$ 52,636
105	Construction Work in Process	F-5 \$ -	\$ -
108	Accumulated Depreciation and Amortization	F-5 \$ (4,570)	\$ (2,891)
	Net Utility Plant	\$ 78,305	\$ 49,745
131	Cash	\$ 8	\$ 3,773
141	Customer Accounts Receivable	\$ 13,080	\$ 14,736
186	Misc. Deferred Assets (Net)	\$ 8,712	\$ 7,661
	Other Assets (Specify):		
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
	Total Assets and Other Debits	\$ 100,105	\$ 75,914
<small>Must tie to amount on page indicated</small>			
Liabilities and Capital Equity			
201	Common Stock Issued	F-6 \$ 100	\$ 100
204	Preferred Stock Issued	F-6 \$ -	\$ -
211	Other Paid in Capital	\$ 17,842	\$ 17,842
215	Retained Earnings	F-6 \$ 18,394	\$ 34,085
218	Proprietary Capital (Proprietary & Patnership)	F-6 \$ -	\$ -
	Total Capital	\$ 36,336	\$ 52,027
224	Long Term Debt	F-6 \$ -	\$ -
231	Accounts Payable	\$ 5,253	\$ 10,401
232	Notes Payable	\$ -	\$ -
	Advance from Owners	\$ 51,223	\$ 2,472
235	Customer Deposits	\$ -	\$ -
236	Accrued Taxes	\$ -	\$ -
	Other Liabilities (Specify)	\$ -	\$ -
	Property Tax Payable	\$ 2,912	\$ 6,584
238	Accrued Liabilities	\$ 4,381	\$ 4,430
252	Advances for Construction	\$ -	\$ -
271	Contributions in Aid of Construction	\$ -	\$ -
272	Accumulated Amortization of CIAC	F-8 \$ -	\$ -
	Total Liabilities and Capital	\$ 100,105	\$ 75,914
<small>Must tie to amount on page indicated</small>			

EXHIBIT O

**NOTICE OF APPLICATION FOR AUTHORITY TO TRANSFER WASTEWATER CERTIFICATE OF
AUTHORIZATION TO ANOTHER REGULATED UTILITY**

DOCKET NO. _____

**APPLICATION FOR TRANSFER OF FACILITIES AND WASTEWATER CERTIFICATE
NO. 562-S OF TKCB, INC. TO CSWR-FLORIDA UTILITY OPERATING COMPANY, LLC,
IN BREVARD COUNTY**

DATE OF CUSTOMER NOTICE - ___/___/_____

Notice is hereby given that CSWR-Florida Utility Operating Company, LLC (“Central States Water Resources”), has filed an Application for Approval of Transfer of the Wastewater System of TKCB, Inc. in Brevard County, Florida, pursuant to Section 367.071, Florida Statutes, and Rule 25-30.037, Florida Administrative Code.

Central States Water Resources is not requesting a change to rates, classifications, charges, or rules and regulations; therefore, your current rates will not be affected by this transfer. The TKCB, Inc. wastewater system provides service to Sun Lake Estates and Sun Lake Village Estates in the following described service territory in Brevard County, Florida:

The following is a simplified legal description of the Utility’s service territory. For the full legal description, please contact Central States Water Resources at the contact information below.

WASTEWATER LEGAL DESCRIPTION

Township 24 South, Range 35 East, Section 1

Common Street Names Affected by Transfer: Lake Ontario Dr, Lake Erie Pl, Lake Superior Dr, Lake Michigan Ave, Jane Dr, Sharpes Lake Ave, Lake Tahoe Cir, Emerald Lake Dr, Lake Placid Pl, Coral Lake Pl, Crystal Lake Dr

For more information concerning this notice, please contact the Utility at the address below:

Central States Water Resources
1630 Des Peres Rd., Suite 140
St. Louis, MO 63131
Office: (314) 736-4672
Fax: (314) 736-4743
Email address: regulatory@cswrgroup.com

Any objection to the application must be filed with the Office of Commission Clerk, Florida Public Service Commission, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, no later than thirty (30) days after the last date that the notice was mailed or published, whichever is later.