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*tcrabb@radeylaw.com*

May 18, 2022

VIA Electronic Filing to the Office of Commission Clerk  
Florida Public Service Commission  
Office of Commission Clerk  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

**RE: Docket No. 20220064-WS - Application for transfer of facilities of Tymber Creek Utilities, Inc., Water Certificate No. 303-W, and Wastewater Certificate No. 252-S to CSWR-Florida Utility Operating Company, LLC, in Volusia County**

Dear Commission Clerk:

With this cover letter, CSWR-Florida Utility Operating Company, LLC files a redacted copy of the Wastewater Facility Report (attached as Exhibit 1) and the Water Facility Report (attached as Exhibit 2) supplementing Exhibit H of its Application. These reports are filed in redacted form pursuant to the Request for Confidential Classification filed by CSWR-Florida. A highlighted copy of each report will be hand delivered to the Clerk's office.

Thank you for the opportunity to submit additional information in support of the application.

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

cc: Stephanie Morse, Esq., Office of Public Counsel ([morse.stephanie@leg.state.fl.us](mailto:morse.stephanie@leg.state.fl.us))  
Tymber Creek Utilities ([tymbercreekutil@aol.com](mailto:tymbercreekutil@aol.com))

# **EXHIBIT 1**



# **WASTEWATER FACILITY REPORT** **TYMBER CREEK UTILITIES, INC.**

**LOCATION:**  
VOLUSIA COUNTY, FLORIDA

**PREPARED FOR:**  
Central States Water Resources  
500 Northwest Plaza Dr., Suite 500  
St. Ann, MO 63074

**DATE:**  
March 2022



**PREPARED BY:**  
**Clearpoint**  
CONSULTING ENGINEERS, P.A.

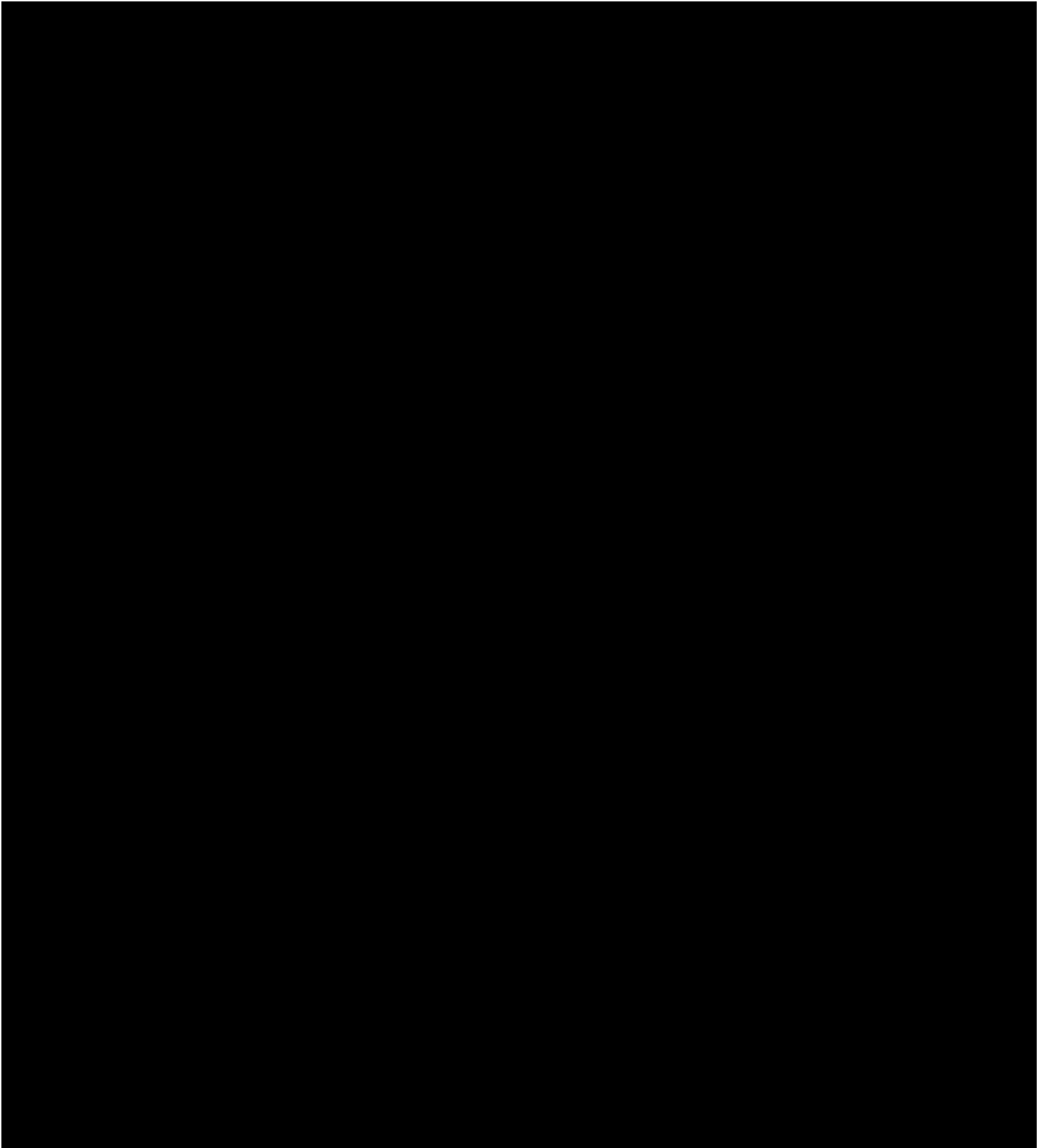
6652 U.S. Highway 98  
Hattiesburg, MS 39402

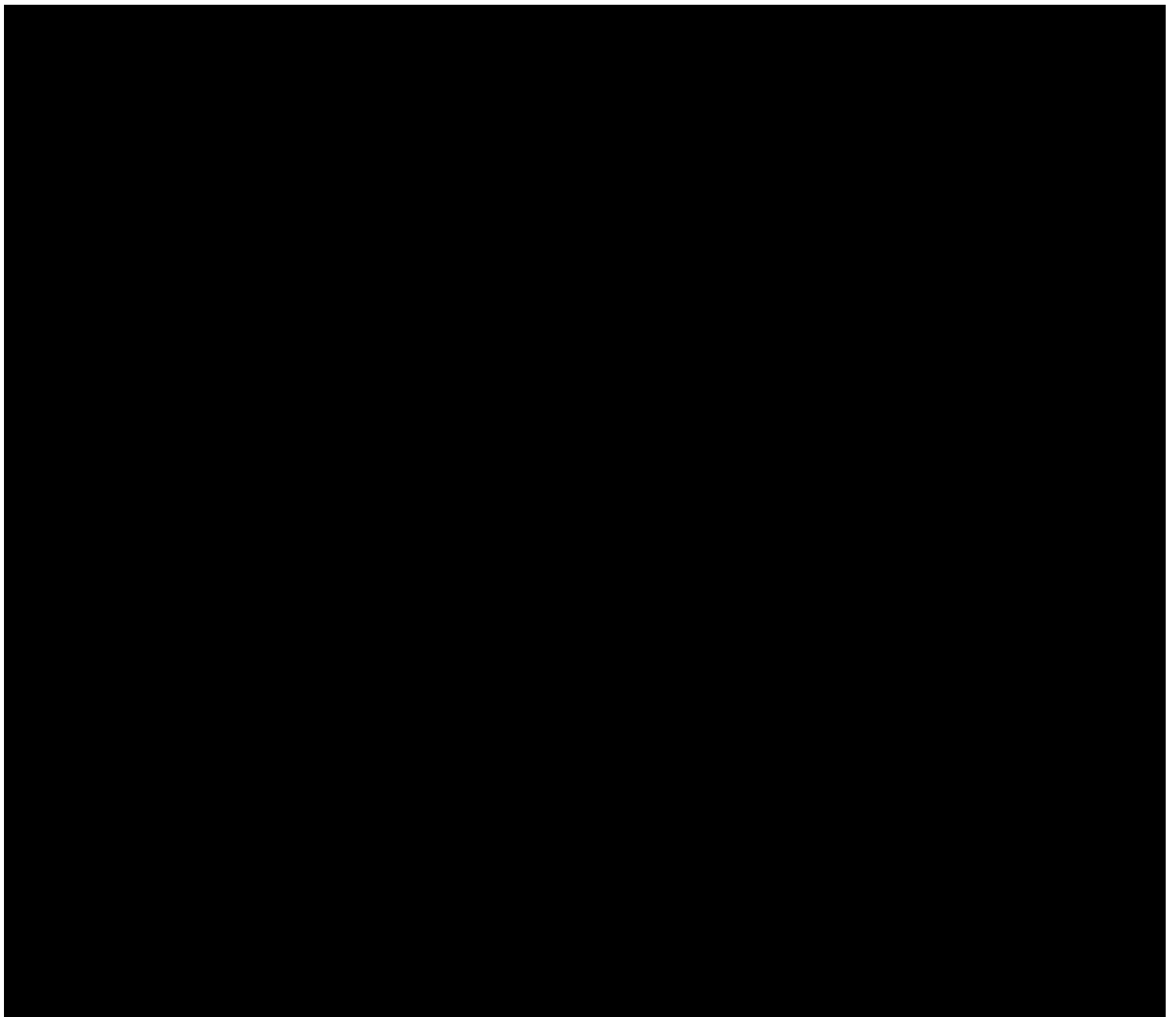
**Engineering Memo**

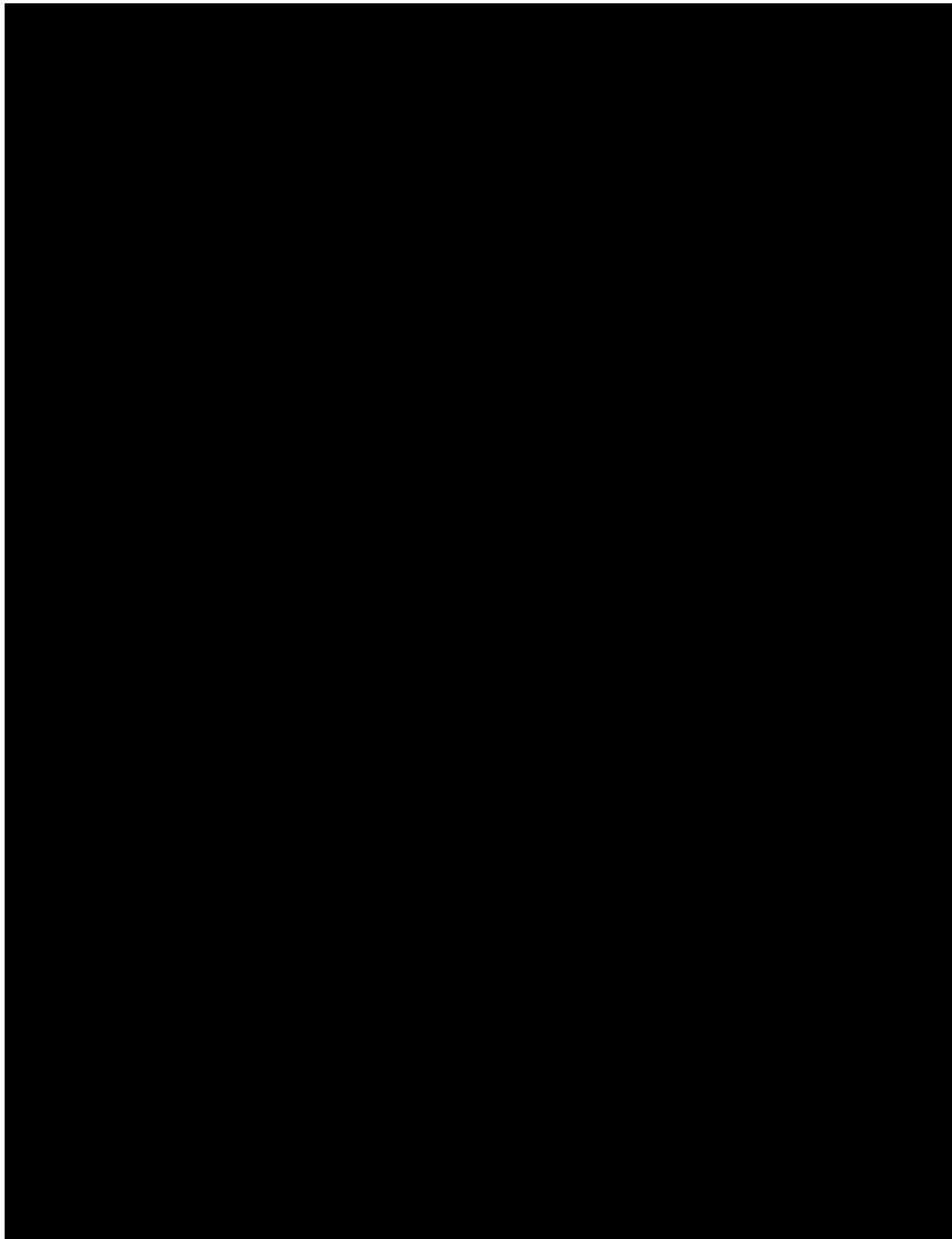
**Wastewater – Tymber Creek Utilities, Inc. WWTF, Permit # FLA011193**

**Volusia County, FL**

**March 2022**

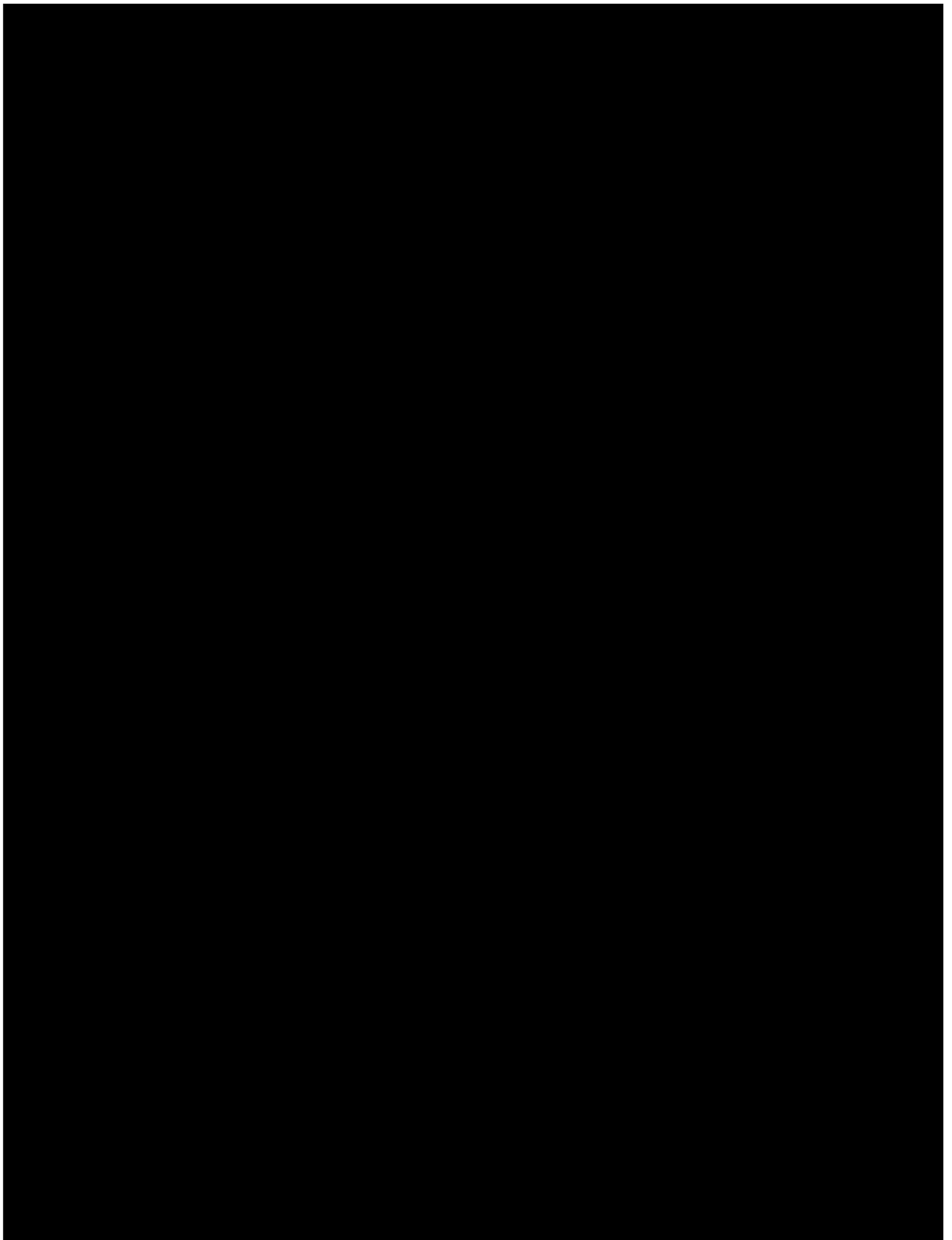
















**SUPPORTING DOCUMENTATION TO**  
**WASTEWATER ENGINEERING MEMO**

TYMBER CREEK UTILITIES, INC.

**LOCATION:**

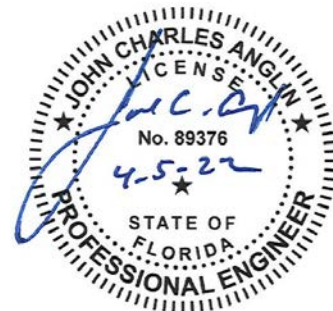
VOLUSIA COUNTY, FLORIDA

**PREPARED FOR:**

Central States Water Resources  
500 Northwest Plaza Dr., Suite 500  
St. Ann, MO 63074

**DATE:**

March 2022



**PREPARED BY:**

**Clearpoint**  
CONSULTING ENGINEERS, P.A.

6652 U.S. Highway 98  
Hattiesburg, MS 39402

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### **ATTACHMENTS**

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Attachment B – Compliance Historical Documentation

- Consent Order, Jan. 20, 2022
- Inspection Report, May 24, 2021
- Response to Violations, Sept. 29, 2021
- DMRs, Feb. 2021 to Jan. 2022

Attachment C – Agreements Made with Surrounding Utilities

- Water Supply Agreement, July 30, 1996
- Biosolids Agreement, March 11, 2021

Attachment D – As Built Plans and Maps

Attachment E – System Photographs

Attachment F – Local Vendor Recommendations

# ATTACHMENT A

Wastewater Permit



# Florida Department of Environmental Protection

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

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

## NOTICE OF PERMIT ISSUANCE

Tymber Creek Utilities  
Shirah J. Stanley, Owner  
1951 State Road 40  
Ormond Beach, FL 32174

Volusia County - DW  
Tymber Creek WWTF

Enclosed is Permit Number FLA011193 to operate a domestic wastewater facility issued under Section(s) 403.087 and 403.0885 of the Florida Statutes.

**Monitoring requirements under this permit are effective on December 1, 2016.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements.

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

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

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

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

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

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

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

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

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

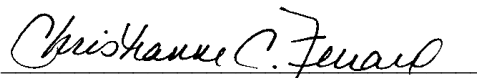
Mediation under section 120.573 of the Florida Statutes is not available for this proceeding.

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

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Christianne C. Ferraro, P.E.

Administrator

Permitting and Waste Cleanup Program - Wastewater  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Enclosures: Permit, DMR and SOB

Copies furnished to:

David Smicherko, DEP CAP, [David.Smicherko@dep.state.fl.us](mailto:David.Smicherko@dep.state.fl.us)

Charles LeGros, DEP Permitting, [Charles.legros@dep.state.fl.us](mailto:Charles.legros@dep.state.fl.us)

Mary Ann Kraus, DEP Groundwater, [Mary.Kraus@dep.state.fl.us](mailto:Mary.Kraus@dep.state.fl.us)

Shabbir Rizvi, DEP, [Shabbir.Rizvi@dep.state.fl.us](mailto:Shabbir.Rizvi@dep.state.fl.us)

Sirena Davila, DEP, [Sirena.Davila@dep.state.fl.us](mailto:Sirena.Davila@dep.state.fl.us)

Daniel Hall, DEP, [Daniel.K.Hall@dep.state.fl.us](mailto:Daniel.K.Hall@dep.state.fl.us)

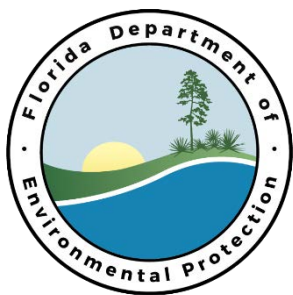
Mark Cadenhead, PE, Cadenhead Environmental Engineering, [mark\\_cadenhead@bellsouth.net](mailto:mark_cadenhead@bellsouth.net)

#### CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before close of business on October 28, 2016 to the listed persons, by Magdalena Pedrosa.

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

 October 28, 2016  
Clerk Date



# Florida Department of Environmental Protection

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

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
Tymber Creek Utilities

**RESPONSIBLE OFFICIAL:**  
Mr. J. Stanley Shirah, Owner  
1951 SR 40  
Ormond Beach, Florida 32174  
(386) 672-9815

**PERMIT NUMBER:** FLA011193  
**FILE NUMBER:** FLA011193-004-DW2P  
**EFFECTIVE DATE:** October 28, 2016  
**EXPIRATION DATE:** October 27, 2021

### FACILITY:

Tymber Creek WWTF  
1951 SR 40 (Off Sandy Spring Road)  
Ormond Beach, FL 32174  
Volusia County  
Latitude: 29°15' 54.58" N Longitude: 81°7' 37.39" 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 permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

### WASTEWATER TREATMENT:

An existing 0.131 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, filtration, chlorination, and aerobic digestion of biosolids.

### REUSE OR DISPOSAL:

**Land Application R-001:** An existing 0.131 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of five rapid infiltration basins with a total wetted area of 2.18 acres having a capacity of 0.131 MGD located approximately at latitude 29°15' 57" N, longitude 81°7' 40" 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 17 of this permit.

PERMITTEE: Tymber Creek Utilities  
 FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
 EXPIRATION DATE: October 27, 2021

## I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### A. Reuse and Land Application Systems

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

			Reclaimed Water Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Monitoring	Sample Type	Monitoring Site Number	Notes
Flow (flow to R-001)	MGD	Max Max	0.131 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	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/Week	Calculated	EFA-1	See I.A.4
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	1.0	Single Sample	5 Days/Week	Grab	EFA-1	See I.A.5
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	See I.A.6
Nitrogen, Total	mg/L	Max Max	Report Report	Annual Average Monthly Average	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	See I.A.7
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	See I.A.7



PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

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 and V-notch weir in stilling well
EFA-1	Chlorine contact chamber effluent
EFB-1	Filter effluent prior to chlorination

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. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). *[62-600.440(6)(a)]*
5. 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)]*
6. Nitrate nitrogen (NO<sub>3</sub>) concentration in the water discharged to the land application system shall not exceed 12.0 mg/L or as required to comply with Rule 62-610.510, F.A.C. *[62-610.510]*
7. Monitoring for total nitrogen (TN) and total phosphorus (TP) are required as allowed by Rule 62-600.650(3), FAC, to evaluate impacts of reclaimed water to ground and surface waters in an impaired water basin. *[62-600.650(3)]*

PERMITTEE: Tymber Creek Utilities  
 FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
 EXPIRATION DATE: October 27, 2021

**B. Other Limitations and Monitoring and Reporting Requirements**

- During the period beginning on the effective date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.7.:

			Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (flow thru plant)	MGD	Max Max Max	0.131 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	FLW-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	Bi-weekly; every 2 weeks	8-hr FPC	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	Bi-weekly; every 2 weeks	8-hr FPC	INF-1	See I.B.3

PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

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 and V-notch weir in stilling well
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 <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

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

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

6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]
7. **Monitoring requirements under this permit are effective on December 1, 2016.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

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

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Central District Office at the address specified in Permit Condition I.B.10. by the twenty-eighth (28th) of the month following the month of operation.

If submitting electronic DMR forms (**electronic preferred**), the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. The EzDMR system shall be used in accordance with Condition VI. 1. of this permit, unless alternative arrangements are approved by the Central District's Wastewater Permitting Section. Register for the new system by visiting the DEP Business Portal at <http://www.fldepportal.com/go/>. For more information, contact at EzDMRAdmin@dep.state.fl.us.

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

8. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, odor, and corrosivity). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by January 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-600.660(2) and (3)(d)][62-600.680(2)][62-610.300(4)]
9. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]
10. 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 Office  
3319 Maguire Blvd  
Suite 232  
Orlando, Florida 32803-3767

Phone Number - (407)897-4100

[62-620.305]

11. 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: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

## II. BIOSOLIDS MANAGEMENT REQUIREMENTS

1. Biosolids generated by this facility may be transferred to Rainbow Ranch BTF 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 Limitations		Monitoring Requirements		
			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)]

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

Monitoring Site Number	Description of Monitoring Site Calculations
RMP-1	Biosolids leaving the facility based on estimated volume or actual weight and percent solids. Calculated and reported in dry tons.

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

### Source Facility

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

### Biosolids Treatment Facility or Treatment Facility

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

PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

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

[62-640.880(4)]

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

### III. GROUND WATER REQUIREMENTS

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)]
5. 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]
6. 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)]
7. If the concentration for any constituent listed in Permit Condition III.10. 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)]
8. 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.9., 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]
9. 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	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	New or Existing
MWB-7662	MW-1 BACKGROUND	29°15' 55"	81°7' 41"	15	Surficial	Existing
MWC-7661	MW-2 COMPLIANCE	29°15' 57"	81°7' 37"	15	Surficial	Existing
MWC-7660	MW-3R – COMPLIANCE*	29°15' 58"	81°7' 37"	15	Surficial	Existing
MWC-7659	MW-4 COMPLIANCE	29°15' 59"	81°7' 35"	15	Surficial	Existing
MWC-7658	MW-5 COMPLIANCE	29°15' 55"	81°7' 36"	10	Surficial	Existing
MWC-7657	MW-6 COMPLIANCE	29°15' 54"	81°7' 38"	15	Surficial	Existing

\* Original compliance well MWC-3 was repeatedly reported DRY and hence replaced by MWC-3R. MWC-3R was installed on January 11, 2010. The WAFR ID (WAFR # 7660) will remain same.

MWC = Compliance; MWB = Background; MWI = Intermediate; MWP = Piezometer

[62-520.600] [62-610.510]

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10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9.:

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

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

11. 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)]*
12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. *[62-160.210] [62-600.670(3)]*
13. 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)]*
14. 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)]*
15. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. *[62-520.600(6)(l)]*

#### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

##### A. Part IV Rapid Infiltration Basins

- Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518]*
- The maximum annual average loading rate to the five rapid infiltration basins shall be limited to 2.2 inches per day (as applied to the entire bottom area). *[62-610.523(3)]*
- The five rapid infiltration basins 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)]*
- 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)]*
- Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414]*
- 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)]*

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

### **C. Recordkeeping Requirements**

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of any required record drawings;
  - h. Copies of the licenses of the current certified operators;
  - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and
  - j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.

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



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## VI. SCHEDULES

1. The following improvement actions shall be completed per this schedule:

Improvement Action	Completion Date
1. Improve lighting at the plant for safety during operation	12/01/2016
2. Replace corroded aeration piping	12/01/2016
3. After the filter airlift repair, continue to monitor total suspended solids levels in the effluent and operate to maintain compliance with the limit.	Ongoing
4. Report any exceedances (ie. TSS, fecal coliform, nitrate) of permit limits to the Department with corrective actions taken.	Ongoing
5. Submit a report summarizing the next twelve months of reclaimed water data, including TSS, fecal coliform, and nitrate to confirm that the corrective actions have been effective.	12/01/2017
6. Register for and begin using the Departments EzDMR system, per condition I.B.7 of this permit	04/01/2017

*[62-620.320(6)] [62-4.070(3)]*

2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
- 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
  - 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

- 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)]*
- In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(5) and 62-640.400(6)]*
- 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)]*

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4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
  - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

*[62-604.130(5)]*

6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1) and 62-600.400(2)(b)]*
7. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
8. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
9. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
10. 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.

*[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)]*

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2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2)]
3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]
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)]

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11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14)]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
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.

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- d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

*[62-620.610(18)]*

- 19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19)]*
- 20. The permittee shall report to the Department's Central District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
  - 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.
    - (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.

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- 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;
  - (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.

PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

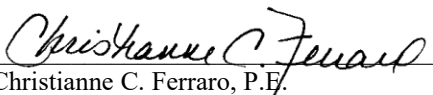
PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

  
Christianne C. Ferraro, P.E.  
Administrator  
Permitting and Waste Cleanup Program –  
Wastewater

PERMIT ISSUANCE DATE:

OCTOBER 28, 2016

Attachment(s):  
Discharge Monitoring Report  
Monitor Well Completion Report

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

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

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193-004-DW2P	<b>Expiration Date</b>	October 27, 2021
MAILING ADDRESS:	1951 SR 40 Ormond Beach, Florida 32174-	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Tymber Creek WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174-	MONITORING GROUP DESCRIPTION:	Rapid Infiltration Basins, with Influent		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Volusia	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		0.131 (An.Avg.)	MGD						5 Days/Week	Flow Totalizer
Flow (flow to R-001)	Sample Measurement										
PARM Code 50050 I 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			Bi-weekly; every 2 weeks	8-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	30.0 (Mo.Avg.)	mg/L			Bi-weekly; every 2 weeks	8-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 B Mon. Site No. EFB-1	Permit Requirement					5.0 (Max.)	mg/L			4 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement					25 (Max.)	#/100mL			4 Days/Week	Grab

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

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

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



## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP R-001

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal, % less than detection	Sample Measurement										
PARM Code 51005 A Mon. Site No. EFA-1	Permit Requirement				75 (Min.Mo.Total)			percent		4 Days/Week	Calculated
pH	Sample Measurement										
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	Sample Measurement										
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				1.0 (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		Bi-weekly; every 2 weeks	8-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)		mg/L		Bi-weekly; every 2 weeks	8-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Bi-weekly; every 2 weeks	8-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFA-1	Permit Requirement					Report (An.Avg.)		mg/L		Bi-weekly; every 2 weeks	8-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement						Report (Mo.Avg.)	mg/L		Bi-weekly; every 2 weeks	8-hr FPC
Flow (flow thru plant)	Sample Measurement										
PARM Code 50050 P Mon. Site No. FLW-1	Permit Requirement		0.131 (An.Avg.)	MGD						5 Days/Week	Flow Totalizer
Flow (flow thru plant)	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement	Report (Qt.Avg.)	Report (Mo.Avg.)	MGD						5 Days/Week	Flow Totalizer

**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY: Tymber Creek WWTF

MONITORING GROUP R-001

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From:

To:

[illegible]

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

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

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193-004-DW2P	Expiration Date	October 27, 2021
MAILING ADDRESS:	1951 SR 40 Ormond Beach, Florida 32174-	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Tymber Creek WWTF	MONITORING GROUP NUMBER:	RMP-Q		
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174-	MONITORING GROUP DESCRIPTION:	Biosolids Quantity		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
COUNTY:	Volusia	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Central District				

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

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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

FLA011193-004-DW2P  
From: \_\_\_\_\_ To: \_\_\_\_\_

Facility: Tymber Creek WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	pH s.u.	Solids, Total Suspended mg/L	Flow (flow to R-001) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L
Code	80082	50060	74055	00620	00600	00665	00400	00530	50050	80082	00530
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	FLW-1	INF-1	INF-1
1											
2											
3											
4											
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26											
27											
28											
29											
30											
31											
Total											
Mo. Avg.											

**PLANT STAFFING:**

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

# GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tymber Creek WWTF  
 Permit Number: FLA011193-004-DW2P  
 County: Volusia

Monitoring Well ID: MWB-7662  
 Well Type: Background  
 Description: MW-1  
 BACKGROUND

Report Frequency: Quarterly  
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

Date Sample Obtained: \_\_\_\_\_

Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

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

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tymber Creek WWTF  
 Permit Number: FLA011193-004-DW2P  
 County: Volusia  
 Office: Central District

Monitoring Well ID: MWC-7661  
 Well Type: Compliance  
 Description: MW-2 COMPLIANCE  
 Re-submitted DMR: ☐

Report Frequency: Quarterly  
 Program: Domestic

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_

Date Sample Obtained: \_\_\_\_\_

Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

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

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tymber Creek WWTF  
 Permit Number: FLA011193-004-DW2P  
 County: Volusia

Monitoring Well ID: MWC-7660  
 Well Type: Compliance  
 Description: MW-3R - COMPLIANCE

Report Frequency: Quarterly  
 Program: Domestic

Office: Central District

Re-submitted DMR: ☐

Monitoring Period

From: \_\_\_\_\_ To: \_\_\_\_\_

Date Sample Obtained: \_\_\_\_\_

Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

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

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COMMENTS AND EXPLANATION (Reference all attachments here):

## GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tymber Creek WWTF  
 Permit Number: FLA011193-004-DW2P  
 County: Volusia  
 Office: Central District

Monitoring Well ID: MWC-7659  
 Well Type: Compliance  
 Description: MW-4 COMPLIANCE  
 Re-submitted DMR: ☐

Report Frequency: Quarterly  
 Program: Domestic

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

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

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COMMENTS AND EXPLANATION (Reference all attachments here):



## GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tymber Creek WWTF  
 Permit Number: FLA011193-004-DW2P  
 County: Volusia  
 Office: Central District

Monitoring Well ID: MWC-7658  
 Well Type: Compliance  
 Description: MW-5 COMPLIANCE  
 Re-submitted DMR: ☐

Report Frequency: Quarterly  
 Program: Domestic

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_Yes \_\_\_ No

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

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COMMENTS AND EXPLANATION (Reference all attachments here):

# GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tymber Creek WWTF  
 Permit Number: FLA011193-004-DW2P  
 County: Volusia  
 Office: Central District

Monitoring Well ID: MWC-7657  
 Well Type: Compliance  
 Description: MW-6 COMPLIANCE  
 Re-submitted DMR: ☐

Report Frequency: Quarterly  
 Program: Domestic

Monitoring Period From: \_\_\_\_\_ To: \_\_\_\_\_ Date Sample Obtained: \_\_\_\_\_  
 Time Sample Obtained: \_\_\_\_\_

Was the well purged before sampling? \_\_\_ Yes \_\_\_ No

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

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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 28<sup>th</sup> 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.

**CBOD<sub>5</sub>:** Enter the average CBOD<sub>5</sub> of the reclaimed water discharged during the period shown in duration of discharge.

**TKN:** Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

**Actual Rainfall:** Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

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

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

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

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

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

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193-004-DW2P	Expiration Date	October 27, 2021
MAILING ADDRESS:	1951 SR 40 Ormond Beach, Florida 32174-	LIMIT:	Final	REPORT FREQUENCY:	Annually
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Tymber Creek WWTF	MONITORING GROUP NUMBER:	RWS-A		
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174-	MONITORING GROUP DESCRIPTION:	Annual Reclaimed Water or Effluent Analysis		
		RE-SUBMITTED DMR:	<input type="checkbox"/>		
		NO DISCHARGE FROM SITE:	<input type="checkbox"/>		
		MONITORING NOT REQUIRED:	<input type="checkbox"/>		
COUNTY:	Volusia	MONITORING PERIOD	From: _____ To: _____		
OFFICE:	Central District				

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

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

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

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

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200)	Sample Measurement										
PARM Code 00722 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Fluoride, Total (as F) (GWS = 4.0/2.0)	Sample Measurement										
PARM Code 00951 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Lead, Total Recoverable (GWS = 15)	Sample Measurement										
PARM Code 01114 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Mercury, Total Recoverable (GWS = 2)	Sample Measurement										
PARM Code 71901 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nickel, Total Recoverable (GWS = 100)	Sample Measurement										
PARM Code 01074 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Nitrogen, Nitrate, Total (as N) (GWS = 10)	Sample Measurement										
PARM Code 00620 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrogen, Nitrite, Total (as N) (GWS = 1)	Sample Measurement										
PARM Code 00615 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Nitrite plus Nitrate, Total 1 det. (as N)(GWS = 10)	Sample Measurement										
PARM Code 00630 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Selenium, Total Recoverable (GWS =50)	Sample Measurement										
PARM Code 00981 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Sodium, Total Recoverable (GWS = 160)	Sample Measurement										
PARM Code 00923 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

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



**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1)	Sample Measurement										
PARM Code 39175 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Xylenes (GWS = 10,000)	Sample Measurement										
PARM Code 81551 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin(GWS = 3x10 <sup>-5</sup> )	Sample Measurement										
PARM Code 34675 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
2,4-dichlorophenoxyacetic acid (GWS = 70)	Sample Measurement										
PARM Code 39730 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Silvex (GWS = 50)	Sample Measurement										
PARM Code 39760 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Alachlor (GWS = 2)	Sample Measurement										
PARM Code 39161 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Atrazine (GWS = 3)	Sample Measurement										
PARM Code 39033 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Benzo(a)pyrene (GWS = 0.2)	Sample Measurement										
PARM Code 34247 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Carbofuran (GWS = 40)	Sample Measurement										
PARM Code 81405 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Chlordane (tech mix. and metabolites)(GWS = 2)	Sample Measurement										
PARM Code 39350 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

**DISCHARGE MONITORING REPORT - PART A (Continued)**

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200)	Sample Measurement										
PARM Code 38432 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Bis(2-ethylhexyl)adipate (GWS = 400)	Sample Measurement										
PARM Code 77903 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate (GWS = 6)	Sample Measurement										
PARM Code 39100 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Dibromochloropropane (DBCP) (GWS = 0.2)	Sample Measurement										
PARM Code 82625 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Dinoseb (GWS = 7)	Sample Measurement										
PARM Code 30191 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Diquat (GWS = 20)	Sample Measurement										
PARM Code 04443 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endothall (GWS = 100)	Sample Measurement										
PARM Code 38926 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Endrin (GWS = 2)	Sample Measurement										
PARM Code 39390 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Ethylene dibromide (1,2-dibromoethane)(GWS = 0.02)	Sample Measurement										
PARM Code 77651 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	Grab
Glyphosate (GWS = 0.7)	Sample Measurement										
PARM Code 79743 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4)	Sample Measurement										
PARM Code 39055 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Toxaphene (GWS = 3)	Sample Measurement										
PARM Code 39400 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Trihalomethane, Total by summation(GWS = 0.080)	Sample Measurement										
PARM Code 82080 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	Grab
Radium 226 + Radium 228, Total (GWS = 5)	Sample Measurement										
PARM Code 11503 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Alpha, Gross Particle Activity (GWS = 15)	Sample Measurement										
PARM Code 80045 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	pCi/L			Annually	24-hr FPC
Aluminum, Total Recoverable (GWS = 0.2)	Sample Measurement										
PARM Code 01104 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Chloride (as Cl) (GWS = 250)	Sample Measurement										
PARM Code 00940 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Iron, Total Recoverable (GWS = 0.3)	Sample Measurement										
PARM Code 00980 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	mg/L			Annually	24-hr FPC
Copper, Total Recoverable (GWS = 1,000)	Sample Measurement										
PARM Code 01119 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC
Manganese, Total Recoverable (GWS = 50)	Sample Measurement										
PARM Code 11123 P Mon. Site No. RWS-A	Permit Requirement					Report (Max.)	ug/L			Annually	24-hr FPC

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: \_\_\_\_\_

To: \_\_\_\_\_

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

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

PERMIT NUMBER: FLA011193-004  
FACILITY NAME: Tymber Creek WWTF  
FACILITY LOCATION: 1951 Sr 40, off Sand Spring Rd  
Ormond Beach, FL 32174  
Volusia County  
NAME OF PERMITTEE: Tymber Creek Utilities  
PERMIT WRITER: Charles LeGros

**1. SUMMARY OF APPLICATION**

**a. Chronology of Application**

Application Number: FLA011193-004-DW2P  
Application Submittal Date: April 19, 2016  
Additional Information Supplied: August 16 and 17, 2016

**b. Type of Facility**

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

**c. Facility Capacity**

Existing Permitted Capacity:	0.131 mgd Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 mgd Annual Average Daily Flow
Proposed Total Permitted Capacity:	0.131 mgd Annual Average Daily Flow

**d. Description of Wastewater Treatment**

An existing 0.131 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, filtration, chlorination, and aerobic digestion of biosolids.

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

**Land Application R-001:** An existing 0.131 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of five rapid infiltration basins with a total wetted area of 2.18 acres having a capacity of 0.131 MGD located approximately at latitude 29°15' 57" N, longitude 81°7' 40" 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 (RIB) system, based on the following:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (flow to R-001)	MGD	Max	0.131	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
Flow (flow to R-001)	MGD	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
BOD, Carbonaceous 5 day, 20C	mg/L	Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(a)2. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(a)3. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.850(1) & 62-600.440(6)(a)3. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.850(1) & 62-600.440(6)(a)2. FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	62-610.850(1) & 62-600.440(6)(a)1. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
pH	s.u.	Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-610.850(1) & 62-600.440(6)(b) 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) FAC
Nitrogen, Total	mg/L	Max	Report	Monthly Average	62-600.650(3) FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Monthly Average	62-600.650(3) FAC

High-level disinfection is required to allow reduced setbacks to the RIBs and due to the proximity of surface waters.

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (flow thru plant)	MGD	Max	0.131	Annual Average	62-600.700(2)(b) FAC
Flow (flow thru plant)	MGD	Max	Report	Monthly Average	62-600.700(2)(b) FAC
Flow (flow thru plant)	MGD	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
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
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. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FLA011193-004-DW2P expires on October 27, 2021. The reporting for Total Nitrogen and Total Phosphorus has been revised from single sample maximum to reporting the annual and monthly averages. A ten-year permit was requested but not granted due to non-compliance (effluent exceedances and maintenance issues) at the facility.

#### 5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to Rainbow Ranch BTF 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

#### 6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-601, and 62-520 F.A.C.

The existing Ground Water Monitoring Plan does not have an intermediate well, because it appeared that the environment would be better served with an additional compliance well.

Original compliance well MWC-3 was repeatedly reported “DRY” and hence replaced by MWC-3R. MWC-3R was installed on January 11, 2010. MWC-3R has the same WAFR ID (WAFR # 7660).

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

The minimum pH on the groundwater well monitoring reports (DMRs) was revised to “report” due to low pH background.

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

#### 7. PERMIT SCHEDULES

The following improvement actions shall be completed per the following schedule:



Improvement Action	Completion Date
1. Improve lighting at the plant for safety during operation	12/01/2016
2. Replace corroded aeration piping	12/01/2016
3. After the filter airlift repair, continue to monitor total suspended solids levels in the effluent and operate to maintain compliance with the limit.	Ongoing
4. Report any exceedances (ie. TSS, fecal coliform, nitrate) of permit limits to the Department with corrective actions taken.	Ongoing
5. Submit a report summarizing the next twelve months of reclaimed water data, including TSS, fecal coliform, and nitrate to confirm that the corrective actions have been effective.	12/01/2017

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

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

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

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

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. TERM OF THE PERMIT

The applicant has requested that the permit for FLA011193 be issued for a term exceeding five years. The Department has reviewed the criteria in Section 403.087(3), F.S., and determined that the requirements have not been met due to non-compliance (effluent exceedances and maintenance issues) at the facility. The term of the permit will be for five years.

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

October 28, 2016

14. DEPARTMENT CONTACT

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

Charles LeGros  
Engineer IV  
Charles.legros@dep.state.fl.us

3319 Maguire Blvd  
Suite 232  
Orlando, FL 32803-3767

Telephone No.: (407) 897-4100

# Cadenhead Environmental Engineering Services, Inc.



1982 SR 44, #201, New Smyrna Beach, FL 32168  
Phone: (904) 307-6824 (cell), Email Address: mark\_cadenhead@bellsouth.net

April 6, 2021

Ms. Dennise Judy  
Department of Environmental Protection  
Domestic Wastewater Section  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Dear Dennise:

Re: Tymber Creek WWTF Permit Renewal Application  
Facility I.D. Number: FLA011193

Please find enclosed an original signature version of the permit application for renewal of the above-referenced facility. The package also contains the permit application fee in the amount of \$3,000.00. **The facility does not currently appear to qualify for the 10-year permit.**

**Please note the following:**

- 1. The utility is part of an estate settlement.**
- 2. There is no potable water use at the facility. No backflow devices used.**
- 3. Total Suspended Solids continue to be an issue at the facility, primarily due to debris in the lift stations upsetting the plant operations or mechanical issues at the plant.**
- 4. Nitrate/Nitrite in the effluent several months in 2020 and in the groundwater monitoring wells, MW-3R and MW-6 in the 1<sup>st</sup> and 2<sup>nd</sup> quarters of 2020.**

If you or your staff has any questions, you may reach me at the letterhead address or at (904) 307-6824.

Sincerely,

Mark Cadenhead, P. E., President, MBA  
Cadenhead Environmental Engineering Services, Inc.

RECEIVED

APR 09 2021

DEP Central District

## TABLE OF CONTENTS

Sunbiz Information: Currently Under Estate Attorney

Location Map

Site Plan

Form 1

Form 2A

Process Flow Diagram

Residuals Management

Capacity Analysis Report (CAR)

Operation and Maintenance Performance Report (OMPR)

Copy of Portions of Existing Permit

Most Recent Inspection Report Available

Flow Calibration Report

Annual Reuse Report

Reclaimed Water Test Results (Secondary and Primary Drinking Water Stds.)

## **Detail by Entity Name**

Florida Profit Corporation  
TYMBER CREEK UTILITIES, INCORPORATED

### **Filing Information**

Document Number P94000016307FE/EIN Number 59-3231210 Date Filed 02/24/1994 Effective  
Date 02/21/1994 State FL Status ACTIVE

### **Principal Address**

1951 W. GRANADA BLVD  
ORMOND BEACH, FL 32174

Changed: 04/16/2012

### **Mailing Address**

1951 W. GRANADA BLVD  
ORMOND BEACH, FL 32174

Changed: 04/16/2012

### **Registered Agent Name & Address** REVIS, JOHN C

648 S RIDGEWOOD AVE  
DAYTONA BEACH, FL 32114

### **Officer/Director Detail** Name & Address

Title P

SHIRAH, J S  
1951 W. GRANADA BLVD  
ORMOND BEACH, FL 32174

*The affairs of the utility are currently being handled by an estate lawyer.*



1995

Imagery Date: 2/16/2016

29°15'55.91" N 81°07'35.64" W elev. 17 ft. elev. alt. 847 ft.

Google earth





Imagery Date: 2/15/2016 29°15'43.07" N 81°07'29.87" W elev 21 ft eye alt 5542 ft

© 2016 Google



# WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

---

This form must be completed by all  
persons applying for a permit for a  
wastewater facility or activity under  
Chapter 62-620, F.A.C..

See Form 1 to determine which other  
application forms you will need.

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# WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

## I IDENTIFICATION NUMBER:

Facility ID FLA011193

## 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		Form 2A
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	

## III NAME OF FACILITY: (40 characters and spaces)

Tymber Creek WWTF



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

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
Jenkins, T. Brent, Esq. (Estate PA)	(386) 672-9815

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

A. Street or P.O. Box: 1951 State Road 40		
B. City or Town: Ormond Beach	State: FL	Zip Code: 32174

**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: Sandy Spring Road		
B. County Name: Volusia	C. County Code (if known):	
D. City or Town: Ormond Beach	E. State: FL	F. Zip Code: 32174

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

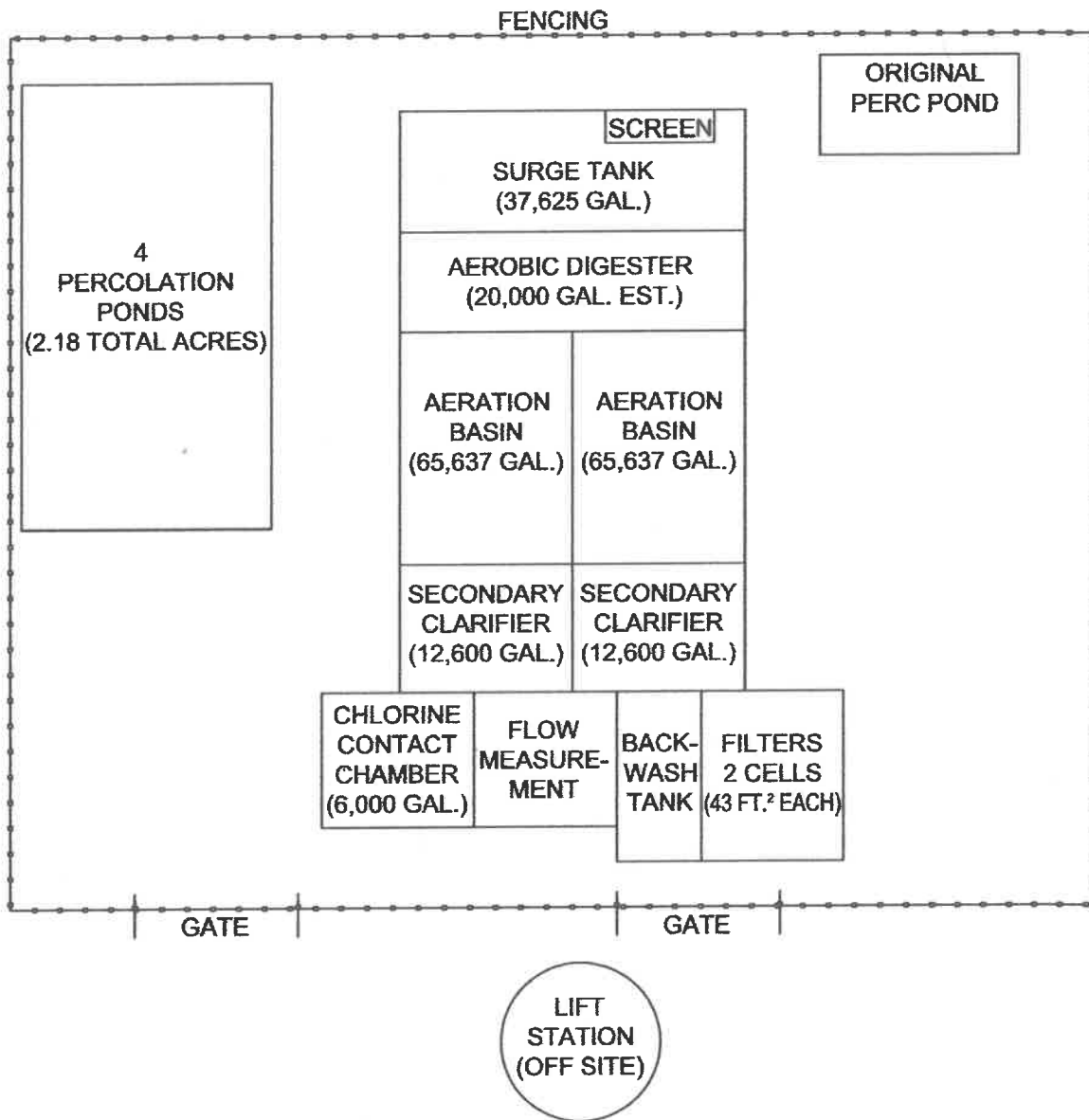
1. Code #: 4952	(Specify) Sewerage	2. Code #:	(Specify)
3. Code #:	(Specify)	4. Code #:	(Specify)

**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: Tymber Creek Utilities		B. Is the name in VIII A. the owner? <input checked="" type="checkbox"/> Yes <input 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.: (386) 672-9815
E. Street or P. O. Box: 1951 S. R. 40			
F. City or Town: Ormond Beach		G. State: FL	H. Zip Code: 32174

**IX INDIAN LAND:** Is the facility located on Indian lands?

☐ Yes ☒ No



**CADENHEAD ENVIRONMENTAL ENGINEERING SERVICES, INC.**

**TYMBER CREEK WWTF**

REVISION:	PLANT LAYOUT	DATE: 3/06/21
	DRAWING #: FLA011193	SCALE: N.T.S.
	DRAWN BY: T.C.	PAGE #: 2 OF 2

Facility ID FLA011193

**X EXISTING ENVIRONMENTAL PERMITS:**

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)
na	na	FLA011193	na

**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)

Domestic Wastewater Plant serving subdivision; treating domestic wastewater and discharging to percolation ponds.

**XIII CERTIFICATION** (see instructions)

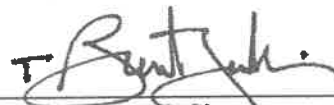
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information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

T. Brent Jenkins, P.A.

A. Name (type or print)

Estate Attorney

Official Title (type or print)



B. Signature

3/22/21

C. Date Signed



**WASTEWATER PERMIT  
APPLICATION FORM 2A**

**FOR  
DOMESTIC WASTEWATER  
FACILITIES**



# 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

Timber Creek WWTF

#### b. Facility Identification Number

FLA011193

#### c. Location

Number and Street

1951 State Road 40

City/State/Zip Code

Ormond Beach, FL 32174

Telephone

(386) 672-9815

Latitude

29° 15' 57.94"N

Longitude

81° 07' 43.86"W

Dates Coordinates Determined

02/26/2021

Method Used to Obtain Coordinates

Previous permit: Google Earth

#### d. Ownership Type

- ☐ Municipal  
☐ County  
☐ State  
☒ Private

e. Contact

Name T. Brent Jenkins  
 Title P.A. (Estate attorney)  
 Telephone (386) 672-1332 (attny) 672-9815 (utility office)

f. Facility Mailing Address

Number and Street 1951 State Road 40  
 City/State/Zip Code Ormond Beach, FL 32174

g. Year Facility Began Operation 1993

4. Applicant or Authorized Representative

Legal Name Tymber Creek Utilities  
 Number and Street 1951 State Road 40  
 City/State/Zip Code Ormond Beach, FL 32174  
 Telephone (386) 672-9815  
 Contact Person T. Brent Jenkins  
 Title (P.A.: Estate Attorney)  
 Telephone Number (386) 672-1332 or office 672-1332

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

The facility serves a subdivision, Tymber Creek, with 450 single family homes. There are no plans for additional homes or apartments during this permit period. The extended aeration plant uses surge aeration, secondary clarification, filtration and chlorination. Chlorinated effluent is discharged to one of 4 percolation ponds on site. The facility is required to perform high level disinfection.

6. Municipalities or Areas Served

Name of Municipality or Area	Ownership	Population Served
Tymber Creek Subdivision	Private	450 homes; est. 1000 people
Total Population Served		450 homes/1000 people

## 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 (4 perc ponds)	0.131	AADF
Ground Water Disposal by Underground Injection (Rule 62-600.540, F.A.C.)			
Other (Describe)			
Total	1 (4 perc ponds)	0.131	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:

Telephonic number:

- c. For each treatment facility that receives this discharge, provide the following:

Name:

Mailing Address:

Contact person:

Title:

Telephonic number:

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

17.6 (approx avg over 4 yrs.)

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.)		
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	2	17.6 (approx)
Other (Describe)		
Total		17.6 (approx)

d. If residuals are transported to another facility  
for landfill disposal, incineration, or treatment,  
provide the facility name, Facility identification  
number and address.

Name

American Bio-Clean RMF

Facility Identification Number

FLA011270

Number and Street

5901 Kendrew Drive

City/State/Zip Code

Port Orange, FL 32127

County

Volusia

Telephone

(386) 304-1870

Treatment Processes Used by Receiving Facility

lime stabilization; pH adjustment



**10. Permits and Applications**

a. Expiration Date of Current NPDES Permit N/A

b. Expiration Date of Current DEP Permit October 27, 2021

c. Permit Number of Any Existing Environmental Permits

NPDES	_____	PSD	_____
UIC	_____	Other	_____
RCRA	_____	Other	_____

d. Orders and Notices

*NA*

Type or Order or Notice	Issuing Agency	Date of Order or Notice
Notice or Violation	N/A	
Consent Order	"	
Administrative Order	"	
Other (Describe.)	"	

## SECTION 2. TREATMENT FACILITY DESCRIPTION

### 1. Flow

#### a. Design Capacity

Current Design Capacity	0.131	mgd
Proposed Incremental Design Capacity	+0.00	mgd
Proposed Total Design Capacity	=0.131	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	0.0723	0.0656	0.0623	mgd
d. Maximum Daily Flow Rate				mgd

### 2. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	6.0 — 8.5	Standard Units		
CBOD <sub>5</sub>	20/30/60	mg/L	AA/MA/Max	90
TSS	5	mg/L	Single Sample Max	98
Fecal Coliform	25	No./100 ml	Single Sample Max	
Fecal Coliform	75 %	Percent	BDL	
Nitrate	12	mg/L	Single Sample Max	
TRC	> 1.0	mg/L	Single Sample Max	

### 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?

N/A

☐ 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 Some treatment in digester on site. Sent to RMF.

b. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

Hauled to RMF

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 (Acrobic process, with bench-scale demonstration)
- ☐ Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- ☐ Option 5 (Acrobic 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:

e. 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 \_\_\_\_\_

5. Reliability Class

- ☒ Class I  
☐ Class II  
☐ Class III  
☐ Other Equivalent Reliability

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### SECTION 3. A. DISCHARGES TO SURFACE WATERS (including wetlands)

**1. Discharge Serial Number and Name**

Discharge Serial Number

N/A

**2. Discharge Location**

County

N/A

Street or Description

City or Town (if applicable)

Zip Code

Latitude

Longitude

Dates Coordinates Determined

Method Used to Obtain Coordinates

**3. Design Capacity of the Outfall**

Current Design Capacity

N/A mgd

Proposed Incremental Design Capacity

+ mgd

Proposed Total Design Capacity

= mgd

**4. Basis of Design Flow**

- ☐ Annual Average Daily Flow
- ☐ Maximum Monthly Average Daily Flow
- ☐ Three-Month Average Daily Flow
- ☐ Other

If other, specify N/A

**5. Basis for Effluent Limitations**

- ☐ TBEL
- ☐ Level I WQBEL
- ☐ Level II WQBEL
- ☐ Other

If other, specify N/A

Date Effluent Limitations Established

N/A

**6. Description of Receiving Waters**

a. Name of Receiving Water N/A

b. Type of Receiving Waterbody

- ☐ Fresh
- ☐ Brackish or Marine

c. Classification of Receiving Waterbody

- ☐ Class I
- ☐ Class II
- ☐ Class III
- ☐ Class IV
- ☐ Class V

NA

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.

N/A

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)

N/A

United States Soil Conservation Service 14-digit  
Watershed Code (if known)

e. Name of State Management/River Basin (if known)

N/A

United States Geological Survey 8-digit Hydrologic  
Cataloging Unit Code (if known)

f. Critical low flow of receiving stream (if applicable)

acute N/A cfs chronic cfs

g. Total hardness of receiving stream at critical low flow (if applicable) N/A mg/l of  $\text{CaCO}_3$

#### 7. Outfall Information

Description of Outfall and Diffuser

N/A

Construction Materials

Length From Shore

Diameter

Discharge Depth Below Water Surface

Receiving Water Bottom Depth Below Water Surface

Is the outfall equipped with a diffuser?

☐ Yes ☐ No

feet

inches

feet

feet

#### 8. Surface Water Improvement and Management (SWIM)

a. Will the discharge affect any SWIM  
plan waterbodies?

☐ Yes ☐ No

b. If yes, name the waterbody

N/A

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.

NA

**9. Additional Information Required for Intermittent or Periodic Discharges**

Frequency  
Duration  
Volume  
Occurrence

N/A 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.

N/A

Classification of Downstream Waterbody

- ☐ Class I  
☐ Class II  
☐ Class III  
☐ Class IV  
☐ Class V

Distance Downstream

N/A miles

Average Flow Velocity During Anticipated Periods of Discharge

feet per second

Travel Time During Anticipated Periods of Discharge

hours

**b. Rainfall Information**

Rainfall Gaging Station Location

Period of Record Analyzed:

Beginning Year

Ending Year

Number of Years

Average Annual Rainfall

inches per year

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c. Simulation of Operation of the Reuse, Storage, and Limited Wet Weather Discharge for an Average Rainfall Year

Year Simulated N/A

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)

CBOD<sub>5</sub> N/A 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 CBOD<sub>5</sub> 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 N/A

Note:

If the travel time shown in 14.a., above, is less than 24 hours, provide the adjusted minimum acceptable stream dilution factor.

$$\text{Adjusted SDF} = SDF \times (24 \text{ hours}) / (\text{travel time in hours})$$

**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 (CBOD)							
TOTAL SUSPENDED SOLDS (TSS)							
FECAL COLIFORM							

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**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 RESIDUAL, TRC)							
DISSOLVED OXYGEN							
TOTAL KJELDAHL NITROGEN (TKN)							
NITRATE PLUS NITRITE							
NITROGEN							
OIL and GREASE							
PHOSPHORUS (Total)							
TOTAL DISSOLVED SOLIDS (TDS)							
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.

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**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: \_\_\_\_\_

NA

**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	Number of Samples		
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS.											
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO <sub>3</sub> )											
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 TETRACHLORIDE											
CHLOROBENZENE											
CHLORODIBROMOMETHANE											
CHLOROETHANE											
2-CHLOROETHYL VINYL ETHER											
CHLOROFORM											
DICHLOROBROMOMETHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLOROETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPAN											
1,3-DICHLOROPROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											



[illegible]

## SECTION 3. B. REUSE AND LAND APPLICATION SYSTEMS

### 1. Reuse or Land Application System Serial Number and Name

Reuse or Land Application System Serial Number

R-001

R-001 (percolation ponds)

(4 in use; old pond not used)

### 2. Reuse or Land Application System Location

County

Volusia

City or Town (if applicable)

Ormond Beach/FL

Street or Description

Sandy Springs Road

Latitude

29°

15'

56.60"N

Longitude

81°

07'

39.36"W

Dates Coordinates Determined

02/26/2021

Method Used to Obtain Coordinates

Previous permit, Google Earth

### 3. Design Capacity of the Reuse or Land Application System

Current Design Capacity

0.131 mgd

Proposed Incremental Design Capacity

+ 0.0 mgd

Proposed Total Design Capacity

= 0.131 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. Is land application continuous or intermittent?

☒ Continuous ☐ Intermittent

### 6. Underdrains and Perimeter Ditches

a. Is the reuse or land application system underdrained?

☐ Yes ☒ No

b. Are perimeter ditches used?

☐ Yes ☒ No

If yes, will they be excavated to a depth which will intersect the seasonal high ground water table or the ground water mound during any portion of the year?

☐ Yes ☐ No



**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)
R-001 (Percolation Ponds/RIBs)	2.18	15.49	0.131
Total	2.18	15.49	0.131

**9. Additional Information Required for Reuse Systems Permitted Under Part III of Chapter 62-610, F.A.C.**

**a. Areas Irrigated**

*NA*

- ☐ 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. \_\_\_\_\_

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- 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.)

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- 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.)

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NA

### SECTION 3. C. GROUND WATER DISPOSAL BY UNDERGROUND INJECTION

**1. Underground Injection Well Facility Serial Number and Name**

Underground Injection Well Facility Serial Number N/A

**2. Underground Injection Well Facility Location**

County N/A  
 City or Town (if applicable) \_\_\_\_\_  
 Street or Description \_\_\_\_\_  
 Latitude \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ "N  
 Longitude \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ "W  
 Dates Coordinates Determined \_\_\_\_\_  
 Method Used to Obtain Coordinates \_\_\_\_\_

**3. Underground Injection Well Facility DEP**

Identification Number or Permit Application Number N/A

**4. Design Capacity of the Underground Injection Well Facility**

Current Design Capacity N/A mgd  
 Proposed Incremental Design Capacity + \_\_\_\_\_ mgd  
 Proposed Total Design Capacity = \_\_\_\_\_ mgd

**5. Basis of Design Flow**

- ☐ Annual Average Daily Flow  
☐ Maximum Monthly Average Daily Flow  
☐ Three-Month Average Daily Flow  
☐ Other

If other, specify. N/A

**6. Is injection continuous or intermittent?**

☐ Continuous ☐ Intermittent

NA

## SECTION 4. SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION

### 1. Improvements Required

- a. Discharge Serial Numbers, Reclaimed Water Reuse or Land Application System Serial Numbers, and Underground Injection Well Facility Serial Numbers Affected

N/A

- 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:

NA

## SECTION 5. INDUSTRIAL WASTEWATER CONTRIBUTIONS

1. Does the treatment works have, or is it subject to, an approved pretreatment program? ☐ Yes ☒ No

2. Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. \_\_\_\_\_

b. Number of CIUs. \_\_\_\_\_

3. Significant Industrial User Information

Name \_\_\_\_\_

Number and Street \_\_\_\_\_

City/State/Zip Code \_\_\_\_\_

County \_\_\_\_\_

4. Industrial processes Affecting or Contributing to the SIU's Discharge

5. Principal Product(s) and Raw Material(s)

Principal product(s): \_\_\_\_\_

Raw material(s): \_\_\_\_\_

6. Flow Rate

a. Process wastewater flow rate.

\_\_\_\_\_ gpd ☐ Intermittent ☐ Continuous

b. Non-process wastewater flow rate.

\_\_\_\_\_ gpd ☐ Intermittent ☐ Continuous

7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☐ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

NA

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.

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9. **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).

EPA Hazardous Waste Number	Amount	Units
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

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).

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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).

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NA

**15. 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):

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- b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous ☐ Intermittent

If intermittent, describe discharge schedule.

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## 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 TSS exceeds permit limit.
  
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. NA

Year	Number of Days Used	P (%)	Annual Rainfall (inches)
1. NA			
2.			
3.			
4.			
5.			
Total/Average			

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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 CBOD<sub>5</sub> 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 <sub>5</sub>	TKN
1.			
2.			
3.			
4.			
5.			

NA

## SECTION 7. ADDITIONAL INFORMATION REQUIRED FOR RESIDUALS/SEPTAGE MANAGEMENT FACILITIES

### 1. Location of Residuals Treatment Processes

(Describe in relation to the wastewater treatment processes.)

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### 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

N/A

b. Facility Name  
 Number and Street  
 City/State/Zip Code  
 County  
 Telephone

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c. Facility Type

- ☐ Type I  
☐ Type II  
☐ Type III

d. Amount of Residuals Received From This Facility

N/A dry tons/day or \_\_\_\_\_ gpd

Is this amount estimate or actual?

- ☐ Estimated  
☐ Actual



NA

e. Describe the treatment provided by this facility before transport

N/A

f. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen	NA	% 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.

N/A

## SECTION 8. DOCUMENTATION SUBMITTED

1. General Application Requirements	Attached	
	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

NA

## 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 Representative <sup>1</sup> )	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.)	

<sup>1</sup> If signed by the authorized representative, attach a letter of authorization.

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.)	

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 Office of Tymber Creek Utilities 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 Representative <sup>2</sup> )	<u>03/22/21</u> Date
T. Brent Jenkins, Esq., P.A. Name (please type)	For: Tymber Creek Utilities Company Name
Estate Attorney Title	1951 State Road 40 Company Street Address or P O Box
(386) 672-1132 (P.A) or 672-9815 (Utility Office) Telephone No. (including area code)	Ormond Beach, Florida 32174 City, State, Zip Code

<sup>2</sup> If signed by the authorized representative, attach a letter of authorization.

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.

Ivy Mark Cadenhead

Name (please type):

49449

Florida Registration Number:

(904) 307-6824

Telephone No. (including area code)

Cadenhead Env. Engineering Services, Inc.

Company Name:

1982 SR 44, #201

Company Street Address or P O Box

New Smyrna Beach, FL 32168

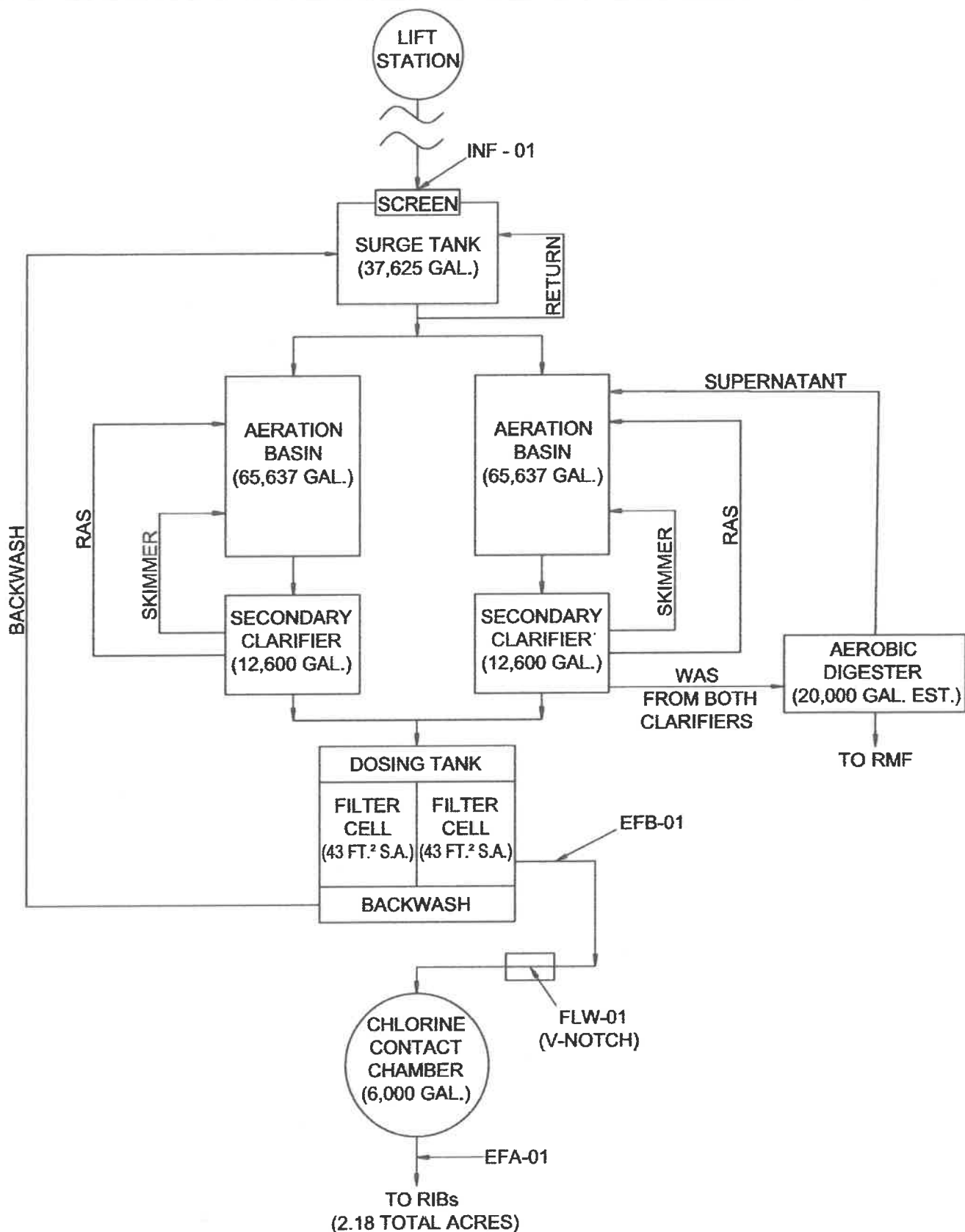
City/State/Zip Code:

(Seal, Signature, Date, Registration No.)

*Ivy Mark Cadenhead P.E.*  
*4/6/2021*



*#49449*  
*4/6/2021*



# CADENHEAD ENVIRONMENTAL ENGINEERING SERVICES, INC. TYMBER CREEK WWTF

REVISION:	PROCESS FLOW DIAGRAM	DATE: 3/06/21
	DRAWING #: FLA011193	SCALE: N.T.S.
	DRAWN BY: T.C.	PAGE #: 1 OF 2

## Residuals Management and Biosolids Storage Plan

Biosolids are hauled to American BioClean RMF for further treatment and ultimate final use. A copy of the contract is attached.

Biosolids Storage Plan: There is a dedicated approximately 20,000-gallon Aerobic Digester at the plant. *When the digester is pumped, all basins are pumped to control not only biosolids but also sand and grit. The last haul was in October 2020 per the records. The lift station(s) are cleaned often also.*

In accordance with the rules and permit of the agency, biosolids may be hauled to another permitted Residuals Management Facility or treatment plant with approval and notification to the Department. For small wastewater treatment facilities, hauling occurs only a couple times per year. There should be no emergency situation in terms of sludge hauling under normal circumstances but should the plant need to haul, arrangements can be made. The Permittee or a representative will notify the agency in the event of an "emergency" sludge hauling situation and all materials will be properly tracked and documented. The holding time for the biosolids is normally in excess of 40 days such that there is sufficient time to locate a receiving facility and notify the agency in advance.

Agreement #

AGREEMENT  
FOR  
TREATMENT AND DISPOSAL OF  
DOMESTIC WASTEWATER BIOSOLIDS

This AGREEMENT by and between AMERICAN BIO-CLEAN, INC. and  
Tymber Creek Utilities, Inc.  
whose address is 1951 West Granada Blvd,  
Ormond Beach, Florida 32174 Permit# FL011193  
hereinafter referred to as CLIENT.

WITNESSETH THAT

WHEREAS, American Bio-Clean, Inc. is the owner and operator of a Lime Stabilization Treatment Plant and Nutrient Management Plan, and

WHEREAS, said treatment and disposal site has been approved and is operating under Florida Department of Environmental Protection (FDEP) permit filed in compliance with Chapter 62-640 FAC. and

WHEREAS, American Bio-Clean, Inc. has the excess capacity at the Lime Stabilization Treatment Plant and Nutrient Management Plan, to receive the biosolids from this Client.

WHEREAS, the client owns and operates the domestic wastewater treatment plan permitted as American BioClean Inc., herein referred to as "SOURCE," and has the need to dispose of the wastewater biosolids generated by the "SOURCE," and

WHEREAS, the client and American Bio-Clean, Inc. both operate treatment facilities in compliance with Chapter 62-600 FAC and the degree of treatment at the plants is determined according to said Chapter. For the ease of permitting



WHEREAS, the transportation of biosolids required valid permits and licenses in compliance with the Rules of the State of Florida and all other local requirements. Those engaged in the legal business will be referred to as "TRANSPORTERS."

NOWHEREFORE, for and in consideration of the actual terms, covenants and conditions to be complied with on the part of the respective parties hereto, it is agreed as follows:

1. Nothing in this Agreement shall supersede or take precedence over the obligations and responsibility of each party to operate and maintain his individual plant in compliance with the rules of the State of Florida.
2. The CLIENT hereby covenants and agrees:
  - A. To provide a sludge analysis of the wastewater biosolids proposed to be treated prior to the initial removal, and to provide updated and additional sludge analysis in compliance with the frequency and schedule stated in Chapter 62-640, FAC.
  - B. If the CLIENT stabilized the biosolids to level "B" or above, none of said biosolids may be mixed with unstabilized materials. If a mix has occurred, the entire load will be required to be stabilized at the American Bio-Clean, Inc. Plant.
  - C. The CLIENT shall pay for the treatment and disposal as dictated in the AGREEMENT PAY SCHEDULE attached to this Contract.
  - D. The CLIENT warrants that the biosolids delivered to the GENERATOR shall not contain any hazardous, toxic or radioactive waste or substances as defined by applicable federal, state, and local laws or restrictions.
  - E. The CLIENT shall pay for and arrange for transportation of biosolids by a TRANSPORTER if other than GENERATOR.

- F. The CLIENT shall maintain the following information for a manifest system to assure that the biosolids are getting from the SOURCE to the GENERATOR: 1) Date and Time 2) Amount of Biosolids 3) Degree of Stabilization (if applicable) 4) TRANSPORTER COMPANY NAME 5) Signature of Driver. A copy of the information maintained shall be provided upon delivery of the biosolids to the GENERATOR'S Plant. If the GENERATOR is not the transporter of biosolids for this facility, the Client shall notify the GENERATOR when biosolids have been taken from this facility and by whom. This will help to insure the biosolids reach the intended, state-required treatment and disposal facility.

American Bio-Clean, Inc. hereby covenants and agrees:

- A. To maintain, monitor and continue to operate the lime stabilization plant and biosolid disposal site in compliance with Chapter 62-640, FAC and the requirements of its permit.
- B. To accept all responsibility for the proper measurements, stabilization and land application for the proper disposal of the biosolid as required by Chapter 62-640 FAC.
- C. To maintain a record of the total quantity of biosolids land applied, and will file with FDEP an annual Summary of the total quantity of residuals, heavy metals and nitrogen land applied, in which this plant is a contributor thereof, to meet the GENERATOR'S certification requirements of the Nutrient Management Plan for this PLANT.
- D. To maintain a record for the purpose of assuring that biosolids leaving the CLIENT arrive at the GENERATOR'S Plant containing the following: 1) Date and Time 2) Amount of Biosolids 3) Origin of Biosolids 4) Signature of TRANSPORTER.

E. That he is aware of and will comply with the requirements for proper disposal as described in the permit for the SOURCE.

4. It is further understood by both Parties that:

A. Upon arrival on site for treatment, residuals from the CLIENT'S plant, American Bio-Clean, Inc. has the right to refuse treatment of said residuals, if it demonstrates properties that are not consistent with Land Application. The CLIENT will be responsible for the removal and proper disposal of the material.

5. It is specifically agreed and understood by all Parties hereto that the rate stated in the Financial Agreement is for the proper treatment and disposal of biosolids for SOURCE, delivered by TRANSPORTER, to the American Bio-Clean, Inc. Site.

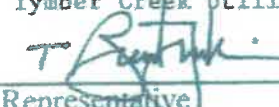
6. The term of this Agreement shall be for one year from the effective date of service and shall be automatically renewed for like terms unless either party shall give written notice of termination (Certified Mail) to the other at least sixty (60) days prior to termination of the initial term or any renewal term.

7. This Agreement shall be binding on the Parties and their successors and assigns.

IN WITNESS WHEREOF, the parties have caused these presents to be executed this 3/11, 2021.

  
Witness

By:   
American Bio-Clean, Inc.

Timber Creek Utilities, Inc.  
By:   
Representative  
T. Brent Jenkins, Successor Trustee of  
Fifth Restatement of the Revocable Trust  
Agreement of J. Stanley Shirah, sole  
stockholder

# CAPACITY ANALYSIS REPORT

TYMBER CREEK WWTF  
OFF SANDY SPRING ROAD  
ORMOND BEACH, FLORIDA

Permit No.: FLA011193

March 2021

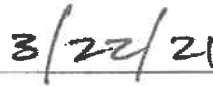
Cadenhead Environmental Engineering Services, Inc.  
1982 State Road 44, #201  
New Smyrna Beach, Florida  
(904) 307-6824

## PERMITTEE'S CERTIFICATION STATEMENT

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



T. Brent Jenkins, P.A. (Estate Attorney)  
For: Tymber Creek Utilities  
1951 State Road 40  
Ormond Beach, FL 32174  
(386) 672-9815 (Office)  
tymbercreekutil@aol.com  
(386) 672-1332 (Mr. Jenkins' Office)



Date

## PROFESSIONAL ENGINEER'S CERTIFICATION STATEMENT

This is to certify that 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 any recommendations and findings with the permittee or the permittee's delegated representative and the Lead Operator. Further, the facility, when properly operated and maintained, will comply with all applicable statutes and rules of the Department and the facility will be capable of meeting permit limitations during the period for which the operation permit is requested.

*Ivy Mark Cadenhead, P.E.*

Ivy Mark Cadenhead, P. E.  
Professional Engineer No. 49449  
Cadenhead Environmental Engineering Services, Inc.  
1982 SR 44, #201  
New Smyrna Beach, Florida 32168  
(904) 307-6824  
mark\_cadenhead@bellsouth.net

4/6/2021

Date



The Tymber Creek Wastewater Treatment Facility (WWTF) is dedicated solely to serving the subdivision. Population is approximately 1,000 persons maximum and 450 homes. (See Form 2A.) The permitted capacity for the facility is 0.131 million gallons per day (mgd) based on annual average daily flow. Over the timeframe studied, work has been conducted on the collection systems and lift stations to reduce inflow.

The most recent 96 months of available flow data, from January 2013 until December 2020 is included in the attached Table 1: MADF, AADF and TMADF. Graphically the information is presented in Figure 1.

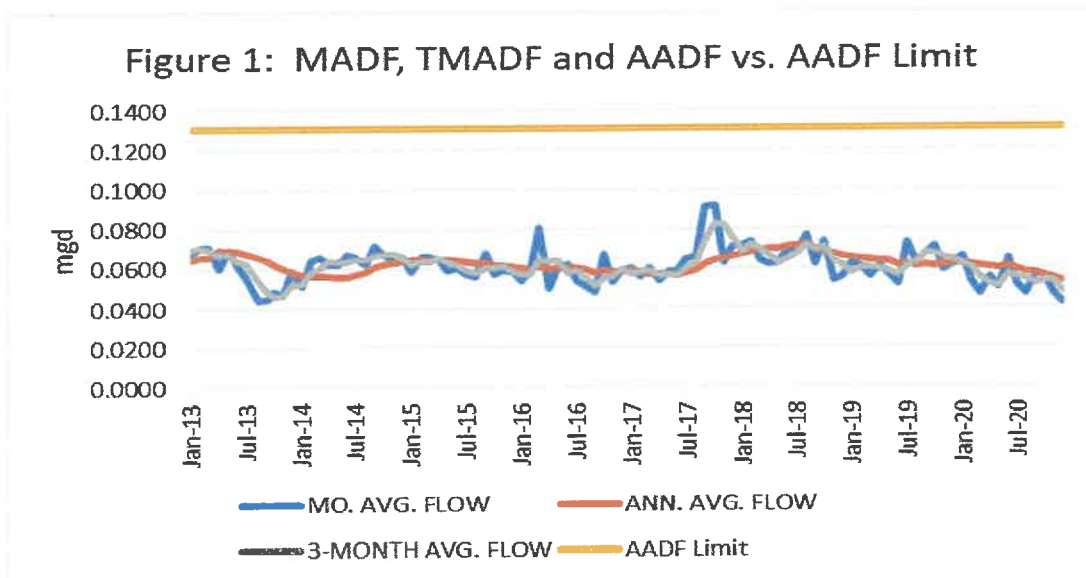


Table 2 provides a comparison of the 12-month rolling average for AADF. Comparing across the table, the AADF results show an overall decline in 2014 due to lower Monthly flows at the end of 2013 with a return to relatively comparable flows in 2015 as recorded in early 2013. The owner performed a great deal of piping work during the past permit periods to control infiltration and intrusion. The flow is dependent on population also and at times the housing market resulted in lower population at the subdivision. Also, most recently, the pandemic may have reduced the occupancy of seasonal residents. The operator reports no notable amount of Infiltration/Intrusion (I/I) at this time and the situation is much improved. The maximum AADF was 0.0723 mgd measured in August 2018. Annual Average Daily Flow is currently between 40 and 55% of the permitted limit.

Table 2: Annual Average Daily Flow (mgd)

MONTH	2013	2014	2015	2016	2017	2018	2019	2020
January	0.0650	0.0571	0.0646	0.0604	0.0588	0.0672	0.0656	0.0623
February	0.0660	0.0565	0.0648	0.0598	0.0585	0.0687	0.0645	0.0617
March	0.0660	0.0561	0.0648	0.0611	0.0568	0.0690	0.0638	0.0609
April	0.0700	0.0563	0.0650	0.0598	0.0571	0.0697	0.0638	0.0604
May	0.0690	0.0556	0.0648	0.0600	0.0568	0.0701	0.0633	0.0598
June	0.0690	0.0560	0.0642	0.0602	0.0565	0.0711	0.0618	0.0609
July	0.0680	0.0568	0.0634	0.0599	0.0574	0.0713	0.0622	0.0591
August	0.0660	0.0583	0.0629	0.0595	0.0587	0.0723	0.0610	0.0578
September	0.0640	0.0606	0.0626	0.0578	0.0623	0.0698	0.0614	0.0569
October	0.0620	0.0621	0.0618	0.0587	0.0643	0.0683	0.0612	0.0556
November	0.0600	0.0634	0.0614	0.0582	0.0652	0.0676	0.0616	0.0546
December	0.0585	0.0640	0.0608	0.0583	0.0662	0.0663	0.0621	0.0529
Max AADF	0.0700	0.0640	0.0650	0.0611	0.0662	0.0723	0.0656	0.0623

Three-month average daily flow (TMADF) is a good indicator of seasonality and/or upcoming capacity concerns. The maximum TMADF was 0.0723 mgd; February 2018.



**Table 3: Three-Month Average Daily Flow (mgd)**

MONTH	2013	2014	2015	2016	2017	2018	2019	2020
January	0.0700	0.0523	0.0623	0.0570	0.0573	0.0687	0.0577	0.0623
February	0.0710	0.0580	0.0633	0.0570	0.0583	0.0723	0.0600	0.0603
March	0.0700	0.0603	0.0633	0.0647	0.0587	0.0700	0.0600	0.0553
April	0.0673	0.0640	0.0657	0.0633	0.0567	0.0667	0.0593	0.0517
May	0.0670	0.0633	0.0633	0.0640	0.0573	0.0630	0.0580	0.0507
June	0.0640	0.0637	0.0613	0.0577	0.0567	0.0650	0.0567	0.0567
July	0.0627	0.0650	0.0587	0.0590	0.0603	0.0670	0.0607	0.0553
August	0.0540	0.0650	0.0577	0.0557	0.0630	0.0717	0.0627	0.0543
September	0.0483	0.0667	0.0603	0.0510	0.0740	0.0690	0.0677	0.0517
October	0.0460	0.0670	0.0603	0.0553	0.0830	0.0710	0.0670	0.0530
November	0.0470	0.0673	0.0613	0.0560	0.0820	0.0633	0.0657	0.0530
December	0.0517	0.0653	0.0580	0.0597	0.0753	0.0613	0.0640	0.0480
Max TMADF	0.0710	0.0673	0.0657	0.0647	0.0830	0.0723	0.0677	0.0623

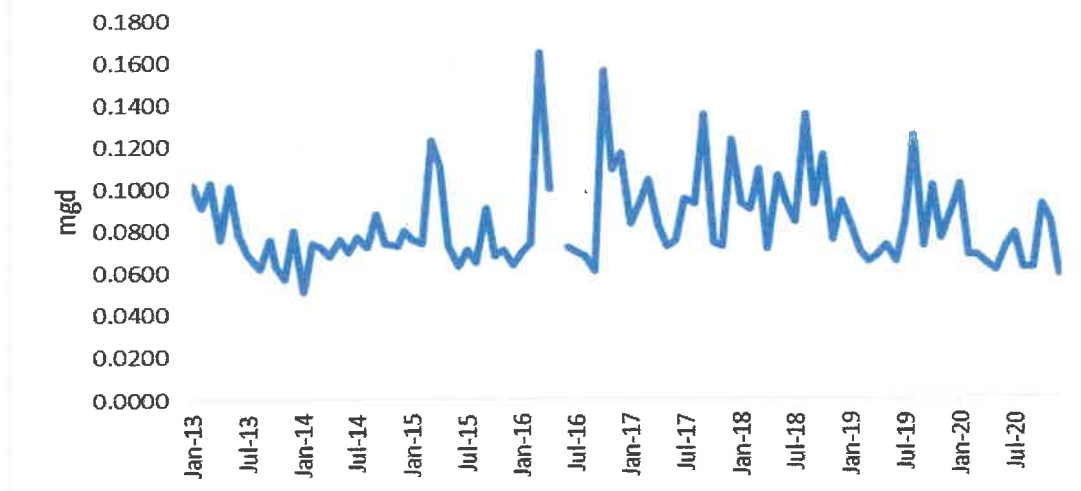
The MADF maximum was 0.0920 mgd measured in October 2017. The flow is elevated but not out of line with previous flows and is assumed to be correct. Please see Table 4 below: Monthly Average Daily Flow (mgd).

**Table 4: Monthly Average Daily Flow (mgd)**

MONTH	2013	2014	2015	2016	2017	2018	2019	2020
January	0.0680	0.0510	0.0580	0.0540	0.0600	0.0720	0.0630	0.0660
February	0.0710	0.0640	0.0660	0.0590	0.0560	0.0740	0.0610	0.0530
March	0.0710	0.0660	0.0660	0.0810	0.0600	0.0640	0.0560	0.0470
April	0.0600	0.0620	0.0650	0.0500	0.0540	0.0620	0.0610	0.0550
May	0.0700	0.0620	0.0590	0.0610	0.0580	0.0630	0.0570	0.0500
June	0.0620	0.0670	0.0600	0.0620	0.0580	0.0700	0.0520	0.0650
July	0.0560	0.0660	0.0570	0.0540	0.0650	0.0680	0.0730	0.0510
August	0.0440	0.0620	0.0560	0.0510	0.0660	0.0770	0.0630	0.0470
September	0.0450	0.0720	0.0680	0.0480	0.0910	0.0620	0.0670	0.0570
October	0.0490	0.0670	0.0570	0.0670	0.0920	0.0740	0.0710	0.0550
November	0.0470	0.0630	0.0590	0.0530	0.0630	0.0540	0.0590	0.0470
December	0.0590	0.0660	0.0580	0.0590	0.0710	0.0560	0.0620	0.0420
Avg Month	0.0585	0.0640	0.0608	0.0583	0.0662	0.0663	0.0621	0.0529
Max Month	0.0710	0.0720	0.0680	0.0810	0.0920	0.0770	0.0730	0.0660

Maximum Daily Flows were evaluated for the facility. For the timeframe of January 2013 until December 2020, for the data available, the Maximum Daily Flow reported was 0.165 mgd in March 2016. The data point is not out of line with other maximum daily flows. Maximum Daily Flows may be reviewed from Table 5 attached and Figure 2 below.

Figure 2: Maximum Day Flow



There have been no reports of overflow at the plant due to excessive influent flows.

There appear to be no hydraulic loading issues with the facility. The CBOD<sub>5</sub> and TSS influent results are collected using 8-hour Flow Proportioned Composites (FPCs).

The average CBOD<sub>5</sub> influent value was 120.1 mg/L which is “weaker” than the expected and assumed design value of 200 mg/L. The median value was 97.4 mg/L indicating an influent consistently “weak”. The maximum value was 518 mg/L; the minimum was 4.6 mg/L in a month when the calculated removal was negative.

The minimum monthly CBOD<sub>5</sub> removal, eliminating the negative result, was 82.5% in May 2016 when the influent value was very, weak. The average removal was 97.0%. The CBOD<sub>5</sub> removal is excellent overall. (Please see Table 6 attached.)

The average TSS influent result was 140.9 mg/L and is also considered “weak” as compared the expected value of 200 mg/L which is the assumed result for influents from residential communities. The median value was 110 mg/L. The maximum influent value was 1010 mg/L; the minimum influent TSS value was 20 mg/L.

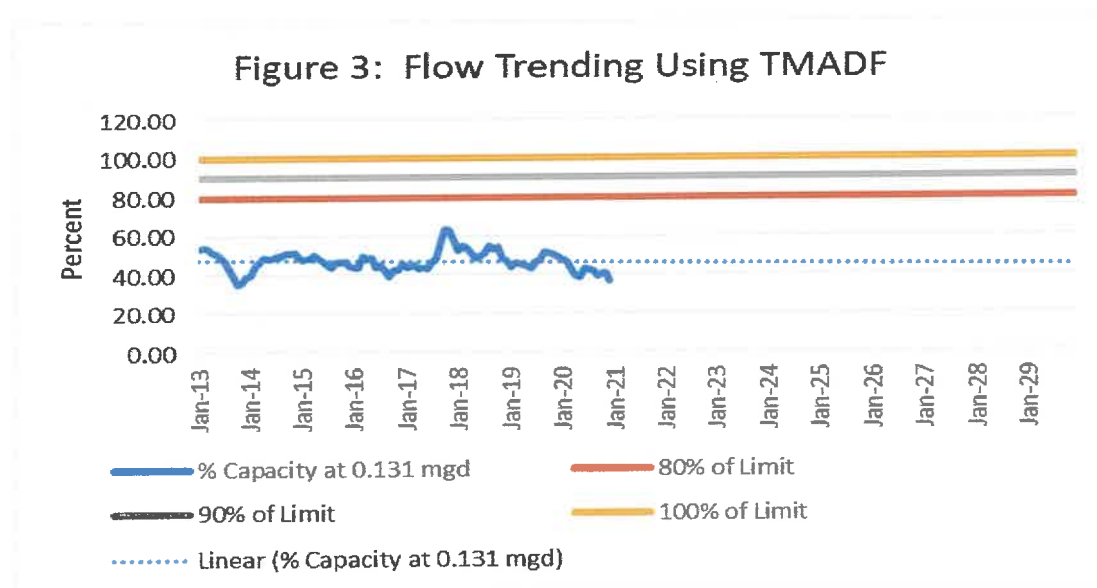
The minimum monthly TSS removal was negative on a couple of occasions when the influent was “weak” and the effluent was not in compliance with the limit of 5 mg/L. The removal was calculated using the maximum TSS result each month and the monthly average of the influent. The minimum TSS removal, eliminating the negative results, was 25%. The facility must meet high level disinfection standards. Assuming the influent at 200 mg/L typical, the removal would need to be about 97.5% consistently to meet the effluent limit. There are filters associated with treatment at the facility. The average removal was only 88.6%. The removal does not appear to be sufficient to consistently meet the TSS maximum limit of 5 mg/L. (Please see Table 7 attached.)

There are no loading issues with the plant in that both parameters are “weak” by comparison to assumed design concentrations. Flow is below design and the CBOD<sub>5</sub> is well controlled. **The TSS results are not always in compliance.**

## Chapter 2: Future Conditions

Overall, the flow trend is for slight decrease over time. Flows have reached slightly over 50% of design as a maximum using the AADF limit of 0.131 mgd results but as measured as TMADF. There are no anticipated major increase changes to the population for the immediate future. Expansion of the plant will not be necessary for the upcoming 5-year permit period. Work on the collection system and the lift station appear to be contributing to the decline in flows overall. The pandemic may also have reduced flows in 2020 and beginning 2021 since there is some seasonality to the occupancy.

Figure 3 provides the trending based on historical data based on TMADF of 0.131 mgd. The linear trend line has just a very slight trend downward. None of the “milestone” values of 80, 90 or 100% will be realized assuming the linear trend line is representative and there are no major changes in population.



### **Chapter 3: Summary and Conclusions**

Flows appear to have declined slightly during the period studied. Overall, the method of measuring flow to the plant has not changed and is not expected to do so in the future. Past flow analyses are pertinent in predicting future flows when dependable. The flow metering device was not functioning properly from about January 2, 2014 until mid-February 2014. However, the meter is calibrated annually, and the results are normally reliable.

There are no CBOD<sub>5</sub> or TSS loading issues. Removal was good for CBOD<sub>5</sub> but the limit for TSS is much lower and although the removal is near 90% on average, the required removal, based on an influent of 140.9 mg/L TSS would need to be about 96% consistently.

**Conclusion:** There appears to be no influent loading issue at the facility. The flow has been consistently below or around 50% of design throughout most of the timeframe studied. There is currently a slight trend towards decrease based on the data. Presently, there appears to be no issues with flow at this facility based on the reported flow information.

Please refer to the attached tables and figures to support the conclusions above.

**TSS in the effluent must be addressed.** The facility had violations of the maximum of 5.0 mg/L in 43 of the 96 months reviewed. Most of the sampled results are complaint; however, the limit is based on a onetime exceedance for the month.

**A discussion with the agency is needed, and will be scheduled, to attempt to bring the facility into compliance with the Total Suspended Solids limit of the permit.**

Table 1: Monthly, Annual and Three-Month Average Daily Flow (mgd)

DATE	MO. AVG. FLOW	ANN. AVG. FLOW	3-MONTH AVG. FLOW	AADF Limit	% Capacity	
Jan-13	0.0680	0.065	0.070	0.131	53.44	
Feb-13	0.0710	0.066	0.071	0.131	54.20	
Mar-13	0.0710	0.066	0.070	0.131	53.44	
Apr-13	0.0600	0.070	0.067	0.131	51.40	
May-13	0.0700	0.069	0.067	0.131	51.15	
Jun-13	0.0620	0.069	0.064	0.131	48.85	
Jul-13	0.0560	0.068	0.063	0.131	47.84	
Aug-13	0.0440	0.066	0.054	0.131	41.22	
Sep-13	0.0450	0.064	0.048	0.131	36.90	
Oct-13	0.0490	0.062	0.046	0.131	35.11	
Nov-13	0.0470	0.060	0.047	0.131	35.88	
Dec-13	0.0590	0.059	0.052	0.131	39.44	
Jan-14	0.0510	0.057	0.052	0.131	39.95	(Meter out)
Feb-14	0.0640	0.057	0.058	0.131	44.27	
Mar-14	0.0660	0.056	0.060	0.131	46.06	
Apr-14	0.0620	0.056	0.064	0.131	48.85	
May-14	0.0620	0.056	0.063	0.131	48.35	
Jun-14	0.0670	0.056	0.064	0.131	48.60	
Jul-14	0.0660	0.057	0.065	0.131	49.62	
Aug-14	0.0620	0.058	0.065	0.131	49.62	
Sep-14	0.0720	0.061	0.067	0.131	50.89	
Oct-14	0.0670	0.062	0.067	0.131	51.15	
Nov-14	0.0630	0.063	0.067	0.131	51.40	
Dec-14	0.0660	0.064	0.065	0.131	49.87	
Jan-15	0.0580	0.065	0.062	0.131	47.58	
Feb-15	0.0660	0.065	0.063	0.131	48.35	
Mar-15	0.0660	0.065	0.063	0.131	48.35	
Apr-15	0.0650	0.065	0.066	0.131	50.13	
May-15	0.0590	0.065	0.063	0.131	48.35	
Jun-15	0.0600	0.064	0.061	0.131	46.82	
Jul-15	0.0570	0.063	0.059	0.131	44.78	
Aug-15	0.0560	0.063	0.058	0.131	44.02	
Sep-15	0.0680	0.063	0.060	0.131	46.06	
Oct-15	0.0570	0.062	0.060	0.131	46.06	
Nov-15	0.0590	0.061	0.061	0.131	46.82	
Dec-15	0.0580	0.061	0.058	0.131	44.27	
Jan-16	0.0540	0.060	0.057	0.131	43.51	
Feb-16	0.0590	0.060	0.057	0.131	43.51	
Mar-16	0.0810	0.061	0.065	0.131	49.36	
Apr-16	0.0500	0.060	0.063	0.131	48.35	
May-16	0.0610	0.060	0.064	0.131	48.85	
Jun-16	0.0620	0.060	0.058	0.131	44.02	
Jul-16	0.0540	0.060	0.059	0.131	45.04	
Aug-16	0.0510	0.060	0.056	0.131	42.49	
Sep-16	0.0480	0.058	0.051	0.131	38.93	
Oct-16	0.0670	0.059	0.055	0.131	42.24	
Nov-16	0.0530	0.058	0.056	0.131	42.75	

Dec-16	0.0590	0.058	0.060	0.131	45.55
Jan-17	0.0600	0.059	0.057	0.131	43.77
Feb-17	0.0560	0.059	0.058	0.131	44.53
Mar-17	0.0600	0.057	0.059	0.131	44.78
Apr-17	0.0540	0.057	0.057	0.131	43.26
May-17	0.0580	0.057	0.057	0.131	43.77
Jun-17	0.0580	0.057	0.057	0.131	43.26
Jul-17	0.0650	0.057	0.060	0.131	46.06
Aug-17	0.0660	0.059	0.063	0.131	48.09
Sep-17	0.0910	0.062	0.074	0.131	56.49
Oct-17	0.0920	0.064	0.083	0.131	63.36
Nov-17	0.0630	0.065	0.082	0.131	62.60
Dec-17	0.0710	0.066	0.075	0.131	57.51
Jan-18	0.0720	0.067	0.069	0.131	52.42
Feb-18	0.0740	0.069	0.072	0.131	55.22
Mar-18	0.0640	0.069	0.070	0.131	53.44
Apr-18	0.0620	0.070	0.067	0.131	50.89
May-18	0.0630	0.070	0.063	0.131	48.09
Jun-18	0.0700	0.071	0.065	0.131	49.62
Jul-18	0.0680	0.071	0.067	0.131	51.15
Aug-18	0.0770	0.072	0.072	0.131	54.71
Sep-18	0.0620	0.070	0.069	0.131	52.67
Oct-18	0.0740	0.068	0.071	0.131	54.20
Nov-18	0.0540	0.068	0.063	0.131	48.35
Dec-18	0.0560	0.066	0.061	0.131	46.82
Jan-19	0.0630	0.066	0.058	0.131	44.02
Feb-19	0.0610	0.065	0.060	0.131	45.80
Mar-19	0.0560	0.064	0.060	0.131	45.80
Apr-19	0.0610	0.064	0.059	0.131	45.29
May-19	0.0570	0.063	0.058	0.131	44.27
Jun-19	0.0520	0.062	0.057	0.131	43.26
Jul-19	0.0730	0.062	0.061	0.131	46.31
Aug-19	0.0630	0.061	0.063	0.131	47.84
Sep-19	0.0670	0.061	0.068	0.131	51.65
Oct-19	0.0710	0.061	0.067	0.131	51.15
Nov-19	0.0590	0.062	0.066	0.131	50.13
Dec-19	0.0620	0.062	0.064	0.131	48.85
Jan-20	0.0660	0.062	0.062	0.131	47.58
Feb-20	0.0530	0.062	0.060	0.131	46.06
Mar-20	0.0470	0.061	0.055	0.131	42.24
Apr-20	0.0550	0.060	0.052	0.131	39.44
May-20	0.0500	0.060	0.051	0.131	38.68
Jun-20	0.0650	0.061	0.057	0.131	43.26
Jul-20	0.0510	0.059	0.055	0.131	42.24
Aug-20	0.0470	0.058	0.054	0.131	41.48
Sep-20	0.0570	0.057	0.052	0.131	39.44
Oct-20	0.0550	0.056	0.053	0.131	40.46
Nov-20	0.0470	0.055	0.053	0.131	40.46
Dec-20	0.0420	0.053	0.048	0.131	36.64

Table 5: Maximum Daily Flow (mgd)

DATE	Max. Day Flow	
Jan-13	0.1020	
Feb-13	0.0910	
Mar-13	0.1030	
Apr-13	0.0760	
May-13	0.1010	
Jun-13	0.0780	
Jul-13	0.0690	
Aug-13	0.0620	
Sep-13	0.0760	
Oct-13	0.0630	
Nov-13	0.0570	
Dec-13	0.0800	
Jan-14	0.0510	(Meter out 1/2/2014)
Feb-14	0.0740	(Meter repaired mid Feb.)
Mar-14	0.0720	
Apr-14	0.0680	
May-14	0.0760	
Jun-14	0.0700	
Jul-14	0.0770	
Aug-14	0.0720	
Sep-14	0.0880	
Oct-14	0.0740	
Nov-14	0.0730	
Dec-14	0.0800	
Jan-15	0.0760	
Feb-15	0.0740	
Mar-15	0.1230	
Apr-15	0.1110	
May-15	0.0730	
Jun-15	0.0630	
Jul-15	0.0710	
Aug-15	0.0650	
Sep-15	0.0910	
Oct-15	0.0680	
Nov-15	0.0710	
Dec-15	0.0640	
Jan-16	0.0700	
Feb-16	0.0740	
Mar-16	0.1650	
Apr-16	0.1000	
May-16		No Part B
Jun-16	0.0720	
Jul-16	0.0700	
Aug-16	0.0680	
Sep-16	0.0610	
Oct-16	0.1560	Matthew
Nov-16	0.1090	



Dec-16	0.1170
Jan-17	0.0830
Feb-17	0.0930
Mar-17	0.1040
Apr-17	0.0820
May-17	0.0720
Jun-17	0.0750
Jul-17	0.0950
Aug-17	0.0930
Sep-17	0.1350
Oct-17	0.0740
Nov-17	0.0720
Dec-17	0.1230
Jan-18	0.0930
Feb-18	0.0900
Mar-18	0.1090
Apr-18	0.0710
May-18	0.1060
Jun-18	0.0930
Jul-18	0.0840
Aug-18	0.1350
Sep-18	0.0920
Oct-18	0.1160
Nov-18	0.0750
Dec-18	0.0940
Jan-19	0.0830
Feb-19	0.0700
Mar-19	0.0650
Apr-19	0.0680
May-19	0.0730
Jun-19	0.0650
Jul-19	0.0840
Aug-19	0.1250
Sep-19	0.0720
Oct-19	0.1010
Nov-19	0.0760
Dec-19	0.0890
Jan-20	0.1020
Feb-20	0.0680
Mar-20	0.0680
Apr-20	0.0640
May-20	0.0610
Jun-20	0.0720
Jul-20	0.0780
Aug-20	0.0620
Sep-20	0.0620
Oct-20	0.0920
Nov-20	0.0840
Dec-20	0.0590

Irma



Table 6: CBOD5 Removal (Percent)

DATE	Influent	Effluent	% Removal
Jan-13	279.0	2.20	99.2
Feb-13	258.0	2.40	99.1
Mar-13	258.0	2.40	99.1
Apr-13	222.0	3.10	98.6
May-13	175.0	1.80	99.0
Jun-13	170.0	2.00	98.8
Jul-13	128.0	4.30	96.6
Aug-13	161.0	5.70	96.5
Sep-13	171.0	2.00	98.8
Oct-13	395.0	1.90	99.5
Nov-13	129.0	2.00	98.4
Dec-13	54.6	1.50	97.3
Jan-14	169.0	2.30	98.6
Feb-14	254.0	26.30	89.6
Mar-14	143.0	2.20	98.5
Apr-14	189.0	3.40	98.2
May-14	60.0	1.00	98.3
Jun-14	95.4	5.70	94.0
Jul-14	52.8	1.00	98.1
Aug-14	55.0	1.20	97.8
Sep-14	60.0	1.00	98.3
Oct-14	60.0	1.00	98.3
Nov-14	60.0	1.00	98.3
Dec-14	36.6	1.00	97.3
Jan-15	111.0	1.00	99.1
Feb-15	65.6	1.00	98.5
Mar-15	67.8	1.70	97.5
Apr-15	79.0	1.00	98.7
May-15	183.0	2.00	98.9
Jun-15	117.0	1.00	99.1
Jul-15	48.6	1.00	97.9
Aug-15	68.8	1.00	98.5
Sep-15	64.5	2.60	96.0
Oct-15	50.2	1.00	98.0
Nov-15	105.0	1.60	98.5
Dec-15	212.0	1.00	99.5
Jan-16	71.4	2.10	97.1
Feb-16	143.0	2.40	98.3
Mar-16	170.0	3.40	98.0
Apr-16	91.1	2.00	97.8
May-16	11.4	2.00	82.5
Jun-16	43.2	2.00	95.4
Jul-16	53.5	2.40	95.5
Aug-16	102.0	2.00	98.0
Sep-16	119.0	1.50	98.7
Oct-16	60.0	2.00	96.7
Nov-16	102.0	1.70	98.3
Dec-16	71.8	2.10	97.1

Jan-17	60.0	5.20	91.3
Feb-17	172.0	1.60	99.1
Mar-17	39.1	1.90	95.1
Apr-17	62.2	2.00	96.8
May-17	39.2	2.30	94.1
Jun-17	60.0	2.00	96.7
Jul-17	60.0	2.00	96.7
Aug-17	60.0	1.70	97.2
Sep-17	145.0	2.60	98.2
Oct-17	42.0	2.00	95.2
Nov-17	90.7	2.00	97.8
Dec-17	78.6	2.00	97.5
Jan-18	27.4	2.00	92.7
Feb-18	71.6	2.00	97.2
Mar-18	29.0	2.70	90.7
Apr-18	34.6	4.60	86.7
May-18	30.8	2.00	93.5
Jun-18	4.6	5.30	
Jul-18	111.0	2.20	98.0
Aug-18	97.9	2.00	98.0
Sep-18	89.0	2.00	97.8
Oct-18	25.2	3.70	85.3
Nov-18	44.4	3.20	92.8
Dec-18	49.6	1.70	96.6
Jan-19	139.0	1.80	98.7
Feb-19	67.2	2.00	97.0
Mar-19	423.0	2.00	99.5
Apr-19	100.0	2.80	97.2
May-19	220.0	2.90	98.7
Jun-19	241.0	2.70	98.9
Jul-19	106.0	1.70	98.4
Aug-19	277.0	2.00	99.3
Sep-19	164.0	3.20	98.0
Oct-19	199.0	2.00	99.0
Nov-19	107.8	4.50	95.8
Dec-19	91.8	5.00	94.6
Jan-20	145.0	4.50	96.9
Feb-20	131.0	3.70	97.2
Mar-20	127.0	2.60	98.0
Apr-20	96.9	2.00	97.9
May-20	139.0	3.70	97.3
Jun-20	151.0	2.00	98.7
Jul-20	183.0	2.00	98.9
Aug-20	127.0	2.00	98.4
Sep-20	226.0	2.00	99.1
Oct-20	94.0	2.10	97.8
Nov-20	518.0	2.00	99.6
Dec-20	85.8	2.00	97.7

Negative

Table 7: TSS % Removal

DATE	Influent	Effluent (Max)	% Removal
Jan-13	260.0	3.50	98.7
Feb-13	270.0	3.50	98.7
Mar-13	270.0	3.50	98.7
Apr-13	250.0	4.70	98.1
May-13	230.0	3.50	98.5
Jun-13	164.0	5.00	97.0
Jul-13	120.0	6.00	95.0
Aug-13	148.0	10.00	93.2
Sep-13	178.0	5.50	96.9
Oct-13	274.0	22.50	91.8
Nov-13	124.0	61.00	50.8
Dec-13	30.0	9.00	70.0
Jan-14	214.0	7.00	96.7
Feb-14	202.0	8.00	96.0
Mar-14	286.0	50.00	82.5
Apr-14	124.0	8.50	93.1
May-14	166.0	9.50	94.3
Jun-14	126.0	2.50	98.0
Jul-14	108.0	2.50	97.7
Aug-14	102.0	2.50	97.5
Sep-14	48.0	9.50	80.2
Oct-14	36.0	5.00	86.1
Nov-14	78.0	2.50	96.8
Dec-14	88.0	2.50	97.2
Jan-15	98.0	9.00	90.8
Feb-15	74.0	2.50	96.6
Mar-15	50.0	2.50	95.0
Apr-15	140.0	19.00	86.4
May-15	168.0	5.00	97.0
Jun-15	106.0	2.50	97.6
Jul-15	84.0	2.50	97.0
Aug-15	120.0	2.50	97.9
Sep-15	32.0	14.00	56.3
Oct-15	20.0	22.50	
Nov-15	162.0	2.50	98.5
Dec-15	140.0	2.50	98.2
Jan-16	156.0	6.00	96.2
Feb-16	96.0	5.00	94.8
Mar-16	152.0	13.00	91.4
Apr-16	20.0	9.50	52.5
May-16	38.0	2.50	93.4
Jun-16	20.0	2.50	87.5
Jul-16	60.0	5.00	91.7
Aug-16	102.0	5.00	95.1
Sep-16	44.0	5.00	88.6
Oct-16	20.0	5.00	75.0
Nov-16	110.0	19.00	82.7
Dec-16	66.0	5.00	92.4

(Negative Removal.)

Jan-17	36.0	11.00	69.4
Feb-17	186.0	5.00	97.3
Mar-17	80.0	6.00	92.5
Apr-17	110.0	5.00	95.5
May-17	30.0	5.00	83.3
Jun-17	156.0	5.00	96.8
Jul-17	20.0	15.00	25.0
Aug-17	22.0	13.50	38.6
Sep-17	128.0	5.00	96.1
Oct-17	38.0	5.00	86.8
Nov-17	66.0	5.00	92.4
Dec-17	32.0	5.00	84.4
Jan-18	20.0	5.00	75.0
Feb-18	92.0	5.00	94.6
Mar-18	20.0	136.00	
Apr-18	42.0	5.00	88.1
May-18	28.0	5.00	82.1
Jun-18	20.0	5.00	75.0
Jul-18	78.0	5.00	93.6
Aug-18	102.0	5.00	95.1
Sep-18	292.0	5.00	98.3
Oct-18	22.0	5.00	77.3
Nov-18	110.0	5.00	95.5
Dec-18	70.1	11.00	84.3
Jan-19	118.0	17.50	85.2
Feb-19	26.0	8.00	69.2
Mar-19	44.0	5.00	88.6
Apr-19	28.0	9.50	66.1
May-19	168.0	5.00	97.0
Jun-19	574.0	5.00	99.1
Jul-19	42.0	8.50	79.8
Aug-19	127.0	11.00	91.3
Sep-19	139.0	8.50	93.9
Oct-19	350.0	5.00	98.6
Nov-19	46.4	12.00	74.1
Dec-19	94.0	9.00	90.4
Jan-20	126.0	20.00	84.1
Feb-20	134.0	12.00	91.0
Mar-20	114.0	8.50	92.5
Apr-20	254.0	10.50	95.9
May-20	420.0	98.00	76.7
Jun-20	331.0	11.00	96.7
Jul-20	448.0	5.00	98.9
Aug-20	194.0	5.00	97.4
Sep-20	1010.0	7.00	99.3
Oct-20	170.0	12.00	92.9
Nov-20	605.0	5.00	99.2
Dec-20	186.0	6.50	96.5

(Negative Removal.)

**OPERATION AND MAINTENANCE PERFORMANCE REPORT**

**FOR**

**TYMBER CREEK WWTF  
OFF SANDY SPRING ROAD  
ORMOND BEACH, FLORIDA**

**Permit No.: FLA011193**

**Date of Field Evaluation: February 24, 2021**

**Report Prepared: March 18, 2021**

**Cadenhead Environmental Engineering Services, Inc.  
1982 SR 44, #201  
New Smyrna Beach, Florida 32168  
(904) 307-6824**

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Attachments:	

Attachment I: Plant Physical Condition Checklist

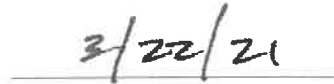
Attachment II: Parameter Results Tables and Graphs w/ Groundwater Data

## PERMITTEE'S CERTIFICATION STATEMENT

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



T. Brent Jenkins, P.A. (Estate Attorney)  
For: Tymber Creek Utilities  
1951 State Road 40  
Ormond Beach, FL 32174  
(386) 672-9815 (Office)  
tymbercreekutil@aol.com  
(386) 672-1332 (Mr. Jenkins' Office)



Date

## PROFESSIONAL ENGINEER'S CERTIFICATION STATEMENT

This is to certify that 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 any recommendations and findings with the permittee or the permittee's delegated representative and the Lead Operator. Further, the facility, when properly operated and maintained, will comply with all applicable statutes and rules of the Department and the facility will be capable of meeting permit limitations during the period for which the operation permit is requested.

*Ivy Mark Cadenhead, P.E.*

Ivy Mark Cadenhead, P. E.  
Professional Engineer No. 49449  
Cadenhead Environmental Engineering Services, Inc.  
1982 SR 44, #201  
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(904) 307-6824  
mark\_cadenhead@bellsouth.net

*4/6/2021*

Date

*Ivy Mark Cadenhead, P.E.*  
*#49449*  
*4/6/2021*



### LEAD OPERATOR'S CERTIFICATION

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

Glenn Wetherell

April 2, 2021

Glenn Wetherell  
Wetherell Treatment Systems, Inc.  
600 Hull Road  
Ormond Beach, FL 32174  
(386) 673-4161  
Operator license #: C-1218

Date

## CHAPTER 1 – INTRODUCTION

### 1. Permitted Capacity

The facility is designed and permitted for treatment and disposal at capacities of 0.131 million gallons per day on an annual average daily flow basis.

### 2. Permitted Effluent Limits

The discharge point, R-001, has previously been permitted with the following limitations:

<u>Parameter</u>	<u>Limit</u>
pH	6.0 to 8.5, standard units
CBOD <sub>5</sub>	20.0 mg/L, annual average, max.
CBOD <sub>5</sub>	30.0 mg/L, monthly average, max.
CBOD <sub>5</sub>	45.0 mg/L, weekly average, max.
CBOD <sub>5</sub>	60.0 mg/L, maximum (single sample)
Total Suspended Solids	5.0 mg/L, maximum (single sample)
Fecal Coliform	75% non-detect
Fecal Coliform	25 #/100 ml, maximum
Nitrogen, Nitrate, Total as N	12.0 mg/L, every two weeks, max.
Total Nitrogen	Report, every two weeks, max.
Total Phosphorus	Report, every two weeks, max.

### Process Description

The collection system conveys raw wastewater via 3 lift stations into the Surge Tank. Dual pumps at each deliver the wastewater through a screen. The Surge Tank (37,625 gallons) has airlifts, one to each train Aeration Basin (2 in parallel at 65,637 gallons per each; total volume of 131,274 gallons). There is an emergency overflow structure on each side of the Surge Tank to the Aerobic Digester. The Surge Tank has two dedicated blowers that are alternated manually for use. Flow from the Aeration Basins is to Secondary Clarifiers (6300 gallons per each; 12,600 gallons total) operating in parallel. Returned Activated Sludge (RAS) and Skimmer material is returned to the beginning of the respective Aeration Basin. Two blowers provide aeration for the basins and alternate automatically. Flow from the weirs of the Secondary Clarifiers is held in a Dosing Tank for transfer to two dual media Filters (43 sq. ft. surface area per each). The media is gravel and sand. The Filters are automatically backwashed 2 to 3 times per day on a timer system. Backwash material is transferred from the Backwash Tank to the Surge Tank. Filtered, partially treated effluent flows from the Filters to the Chlorine Contact Chamber (6,000 gallons). Hypochlorite solution is used for disinfection and is injected at the beginning of the baffled Chamber. Flow is measured using a V-notch weir in the "Stilling Well".

Waste Activated Sludge (WAS) is pumped to the Aerobic Digester (approximately 20,000-gallon volume, i.e., greater than listed previously as 17,550 gallons) on an as needed basis but normally twice per week based on plant performance. Sludge is hauled to American BioClean RMF for further treatment and final use. Supernatant is pumped to the Surge Tank.

Treated effluent is discharged to a Rapid Infiltration Basin System (RIBs) consisting of four (4) percolation ponds. Available discharge area is listed as 2.18 acres. The ponds are rotated for use and the soils percolate well and the ponds are not overloaded.

### 3. Service History

The plant was placed into service in 1993 per historical documents and therefore predates the reliability requirements.

## **CHAPTER 2 – INSPECTION RESULTS**

The facility was inspected to determine the physical condition of the plant. The checklist is included as Attachment I.

### **General**

1. Fenced and locked. Facility is secure.
2. Vegetation was cut and adequately maintained.
3. Signs indicate the nature of the facility.
4. Overall condition of the area was good.
5. Very slight corrosion that may be addressed routinely.

### **Influent Lift Stations/Collection System**

1. Three lift stations transport the influent to the facility.
2. Dual pumps in each; alternated evenly, automatically. Condition is good.
3. Audible and visual alarms. Uses a Remote Call Out system also.
4. Influent is sampled at entrance to the Surge Tank using 8-hour Flow Proportioned Composites.
5. The collection system has improved and reduced Infiltration/Intrusion into the plant. Operator notes lower flows during rain events and less sand entering the plant during the most recent permit cycle.

### **Surge Tank (1 @ 37,625 gallons)**

1. Screen at the entry to the plant.
2. Screenings were collected and hauled by Weems to American BioClean RMF.
3. Tank is in good condition.
4. There are two blowers dedicated to the Surge Tank and Digester. The blowers are manually alternated. Moving parts were covered.
5. Airlift versus pumps transfers the wastewater to the Aeration Basins.
6. No odor issues.
7. No alarms but there is an emergency overflow from the Surge Tank to the Aerobic Digester.

### **Aeration Basins (2 @ 65,637 gallons per each; total 131,274 gallons)**

1. Basins operate in parallel. There is no splitter box.
2. Color was chocolate brown. Color was good.
3. There was an earthy odor and foam was light and crisp.
4. There is no foam issues nor foam suppression system.
5. Two blowers in operation, manually alternated for use provide air to the Aeration Basins.
6. The blower timer is cycled: "Day": on continuously. Night: on 15 mins.; off 45 mins. Operated about 18 hours per day.

7. Aeration was not excessive.
8. Some of the piping has been replaced during the most recent permit cycle.

**Secondary Clarifiers (2 @ 12,600 gallons total volume)**

1. The Clarifiers operate in parallel.
2. There is a stilling/baffle in and baffled weir out.
3. Slight amount of ashing; no popups; and no gassing.
4. Weirs are level and clean.
5. RAS airlifted to the front of the respective Aeration Basin. Skimmer airlifted to the end of the respective Aeration Basin.
6. Condition of the Clarifiers is good.
7. Effluent is clear and there are no floatables. A pool dip net is on site.

**Dual Media Filters (2 @ 43 sq. ft. per each surface area)**

1. Media is sand and gravel.
2. Condition of the filters appear to be good.
3. **Failures for TSS limit may not be due to filters not being adequate since most DMRs indicate or note operational malfunctions normally such as return plugged or airlift issues. At times, once the Digester is pumped the TSS levels come down as wasting may be increased.**
4. Media was added about 12 months ago.
5. Backwash is to the Surge Tank. Backwash each filter daily, manually.

**Chlorine Contact Chamber (1 @ 6,000 gallons)**

1. Contact Chamber is in good condition.
2. Disinfection is by use of liquid sodium hypochlorite solution; sufficient supply present.
3. Chamber is baffled to prevent channeling.
4. *Effluent was slightly turbid.* No floating solids and no gassing noted.
5. Adequate chlorine residual. **Must meet high level disinfection requirements due to setback from property lines.**
6. Chlorine injection is at the beginning of the CCC.

**Aerobic Digester (1 @ approximately 20,000 gallons)**

1. Condition of the Digester was good.
2. Color is dark brown with no odor.
3. No foaming issues. Just pumped so level was low.
4. Shares blowers with the Surge Tank system.
5. Waste approximately twice per week; 1,500 gallons per event.
6. Supernatant to the Surge Tank.
7. Haul sludge to American BioClean RMF.

**Rapid Infiltration Basins (RIBs) (4 @ 2.18 acres total; old pond not used)**

1. Four percolation ponds used in rotation.
2. Ponds were well maintained. Berms' condition is good.
3. A couple of the ponds need to be cleaned due to solids in the bottom. (See Chapter 7.)
4. The ponds are rotated approximately every 14 days; the soil is sandy, and the ponds are not overloaded.
5. No equalization piping and no overflow berms.
6. Vegetation control was good. Once the solids are removed, then clean the vegetation and scarify each pond that is currently drying. (See Chapter 7.)
7. There has been no noted decline in percolation and no sign of failure.

**Groundwater Monitoring Wells (1 background and 5 compliance)**

1. Ground water monitoring associated with the ponds as well as the old pond which no longer receives flow.
2. All wells are in good condition.
3. Wells are labeled but were not locked. The sampling group was contacted by the Utility Office staff and have returned to lock the wells.
4. There are concrete pads for each well.

**There are no chronic problems with the structure of the facility. TSS exceedances and a few fecal "hits" are the most notable issues. Plant upsets, often due to issues at the lift stations with debris, and frequency of monitoring of TSS and Fecal Coliform (4 days per week) create situations where the plant had exceedances of the parameters.**

## CHAPTER 3 – TREATMENT EFFICIENCY

The effluent from the Tymber Creek Wastewater Treatment Facility has met the permit limitations during the most recent permit cycle (since January 2016) with the exceptions noted: TSS exceedances: *January, March, April, November 2016; January, March, July August 2017; March, December 2018; January, February, April, July to September, November, December 2019; and January to June, September, October, December 2020.* Fecal maximum limit: *March, November 2016; August, September, October 2017; and April, June 2020.* Non-detect for fecal less than 75%: *August to December 2017; and April 2018.* Nitrate Maximum: *January 2016; July 2019; and January, February, June 2020.*

Plots and tables associated with the wastewater quality are included as Attachment II. The date ranges for the data are from January 2013 to December 2020. The following is a summary of that data:

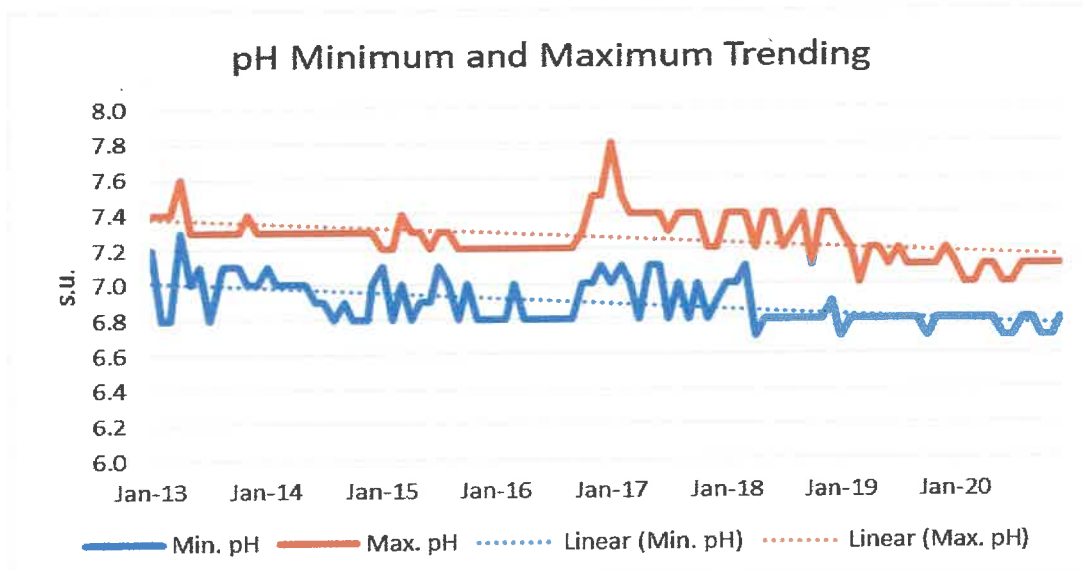
Parameter	Units	Minimum	Maximum	Limit	Date
Flow (AADF)	mgd	-	0.0723	0.131	August 2018
Flow (TMADF)	mgd	-	0.0723	-	February 2018
Flow (Mo. Avg.)	mgd	-	0.0920	-	October 2017
TRC (minimum)	mg/L	0.9	-	1.0	October 2015
Fecal Coliform (single sample max.)	#/100 ml	-	20,000	25	March 2016
Fecal Coliform (min. % non-detect)	#/100 ml	-	56	75	September 2017
CBOD <sub>5</sub> (single sample max.)	mg/L	-	51.6	60	February 2014
CBOD <sub>5</sub> (monthly avg.)	mg/L	-	26.3	30	February 2014
CBOD <sub>5</sub> (annual average)	mg/L	-	4.86	20	June 2014
TSS (single sample max.)	mg/L	-	136	5.0	March 2018
pH	s.u.	6.7	-	6.0	Several
pH	s.u.	-	7.8	8.5	January 2017
Nitrate (every two weeks)	mg/L	-	24.4	Report	February 2020
Total Nitrogen (every two weeks: Mo. Avg.)	mg/L	-	22.2	Report	February 2020
Total Phosphorus (every two weeks: Mo. Avg.)	mg/L	-	7.00	Report	November 2019

CBOD<sub>5</sub> and TSS influent sampling was conducted bi-weekly. Average removal was approximately 97.0% for CBOD<sub>5</sub> and 88.6% for TSS. See CAR for additional information. The effluent quality issues are noted at the beginning of this Section.

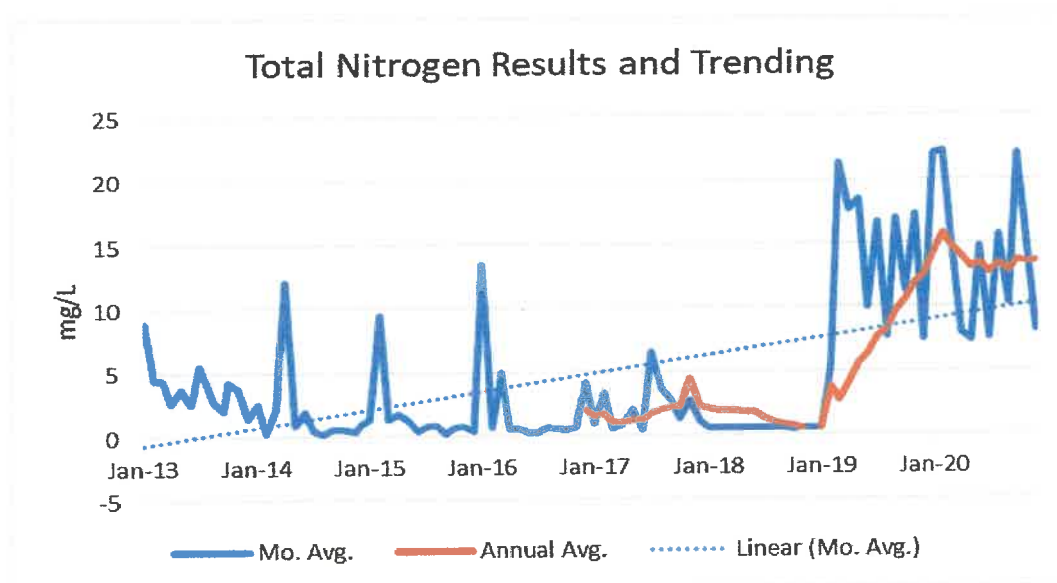
## CHAPTER 4 – PERFORMANCE TRENDS

The parameters sampled are within limits with the exceptions noted in Chapter 3. Primary concern is TSS exceedances with some fecal coliform exceedances also. Nitrate also has exceeded and there are groundwater exceedances for the same parameter in several of the compliance wells in 2020, as well as in the past.

pH is low for the facility under normal conditions. *The low pH may be affecting the nitrification/denitrification process.*

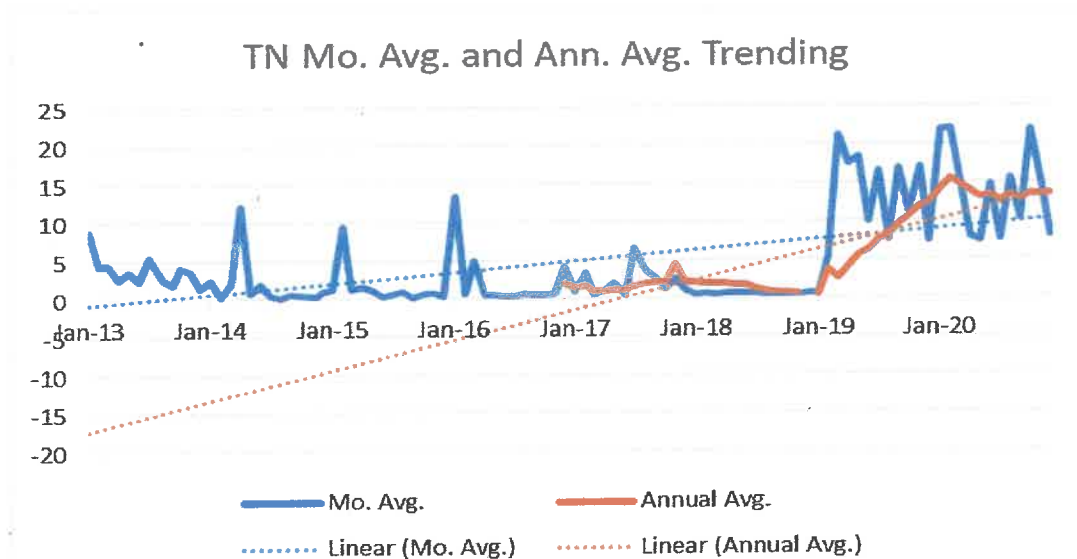


Nitrate is trending to increase, and exceedances have been reported.

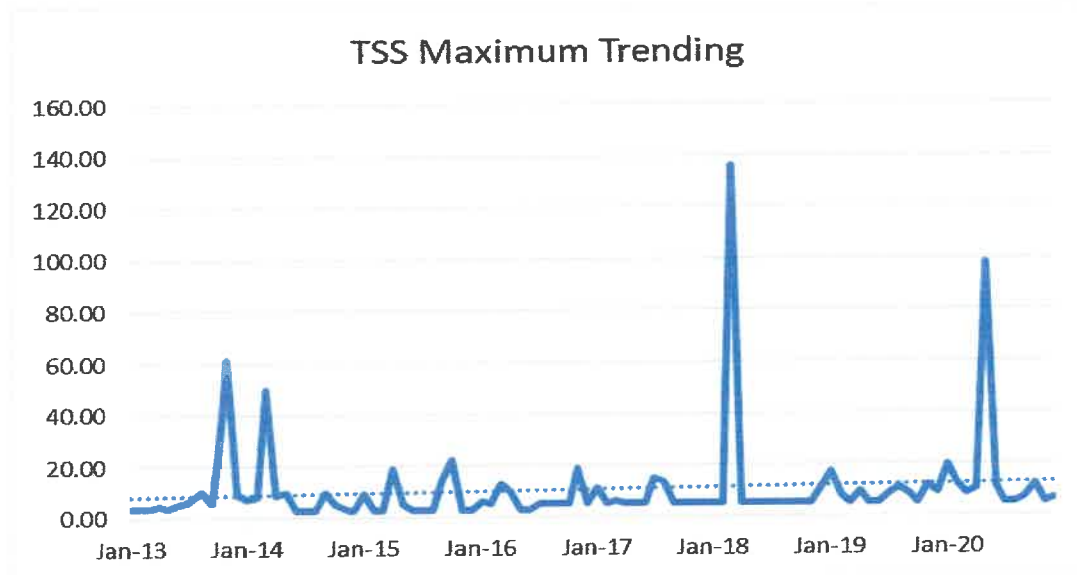


Total Nitrogen in the effluent is trending to increase significantly.





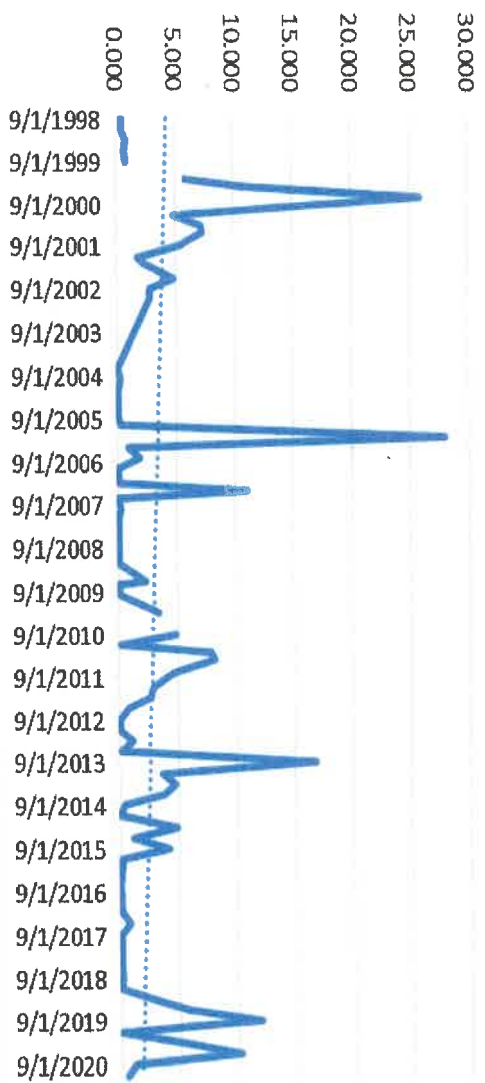
Total Suspended Solids must be tested four (4) times per week. The plotting tracks on the maximum results each month. Often, majority of the results and some resample results were compliant. Please note that the trend for the maximum is increasing. The very, elevated values minimize the slope of the line, but the trend is for increase.



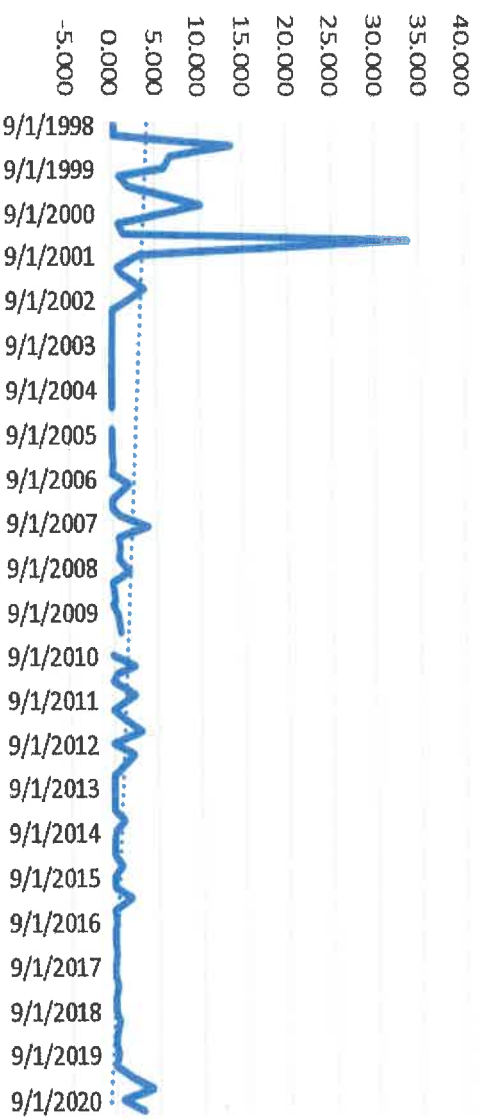
CBOD<sub>5</sub> is not a parameter of concern and was not trended.

Nitrate results in the monitoring wells appear to be declining in all but MWC-3R. This well was “Dry” at times and could not be sampled. Most recent results for the other wells including the background indicates decline and is reflected in the effluent Nitrate results. Nitrate does not appear to be an issue in the wells normally. Except for MWC-3R the only exceedance within the past 3 years was in the background well in 3<sup>rd</sup> Quarter 2013.

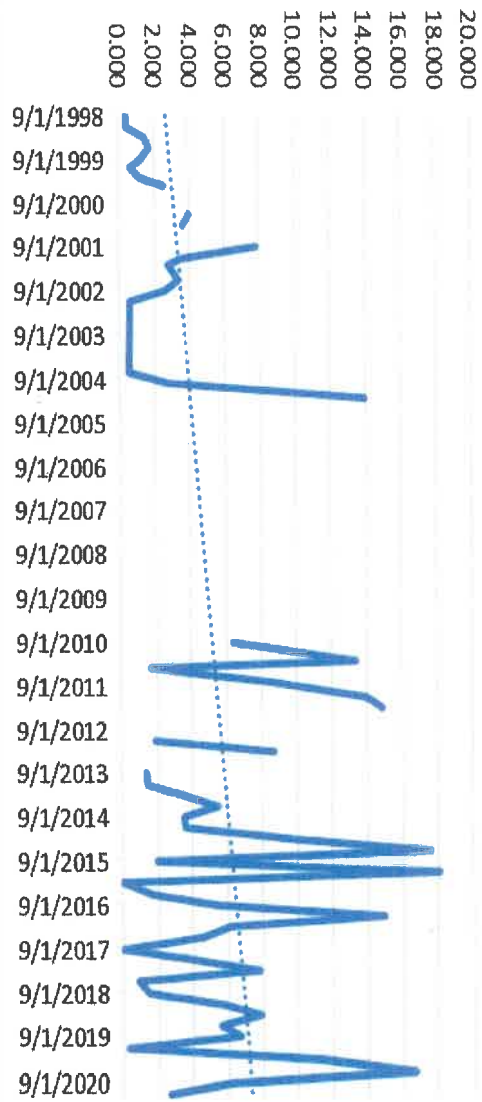
MW-1 (BG): Nitrate Trend



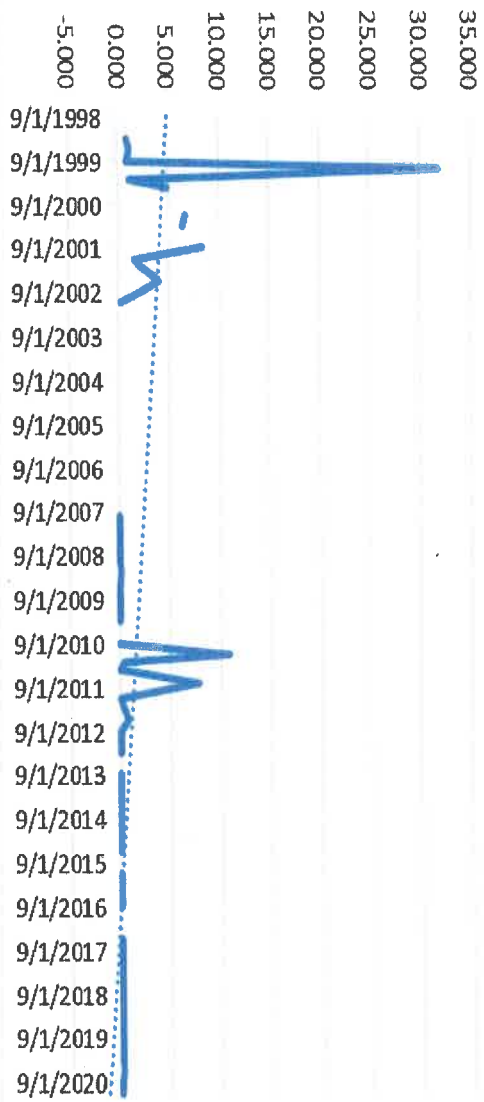
MW-2 Nitrate Trending

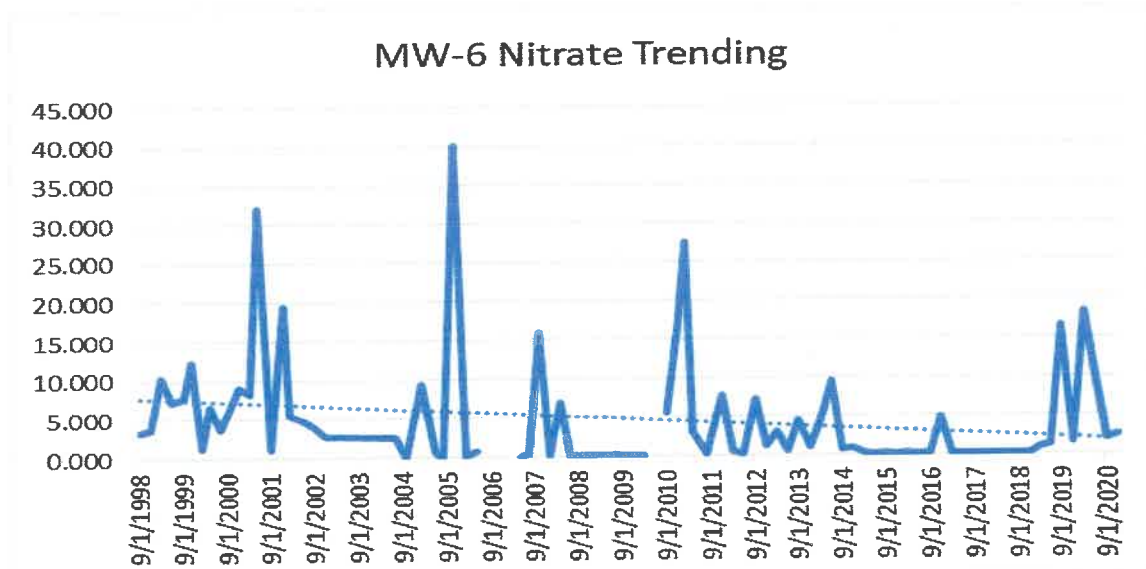
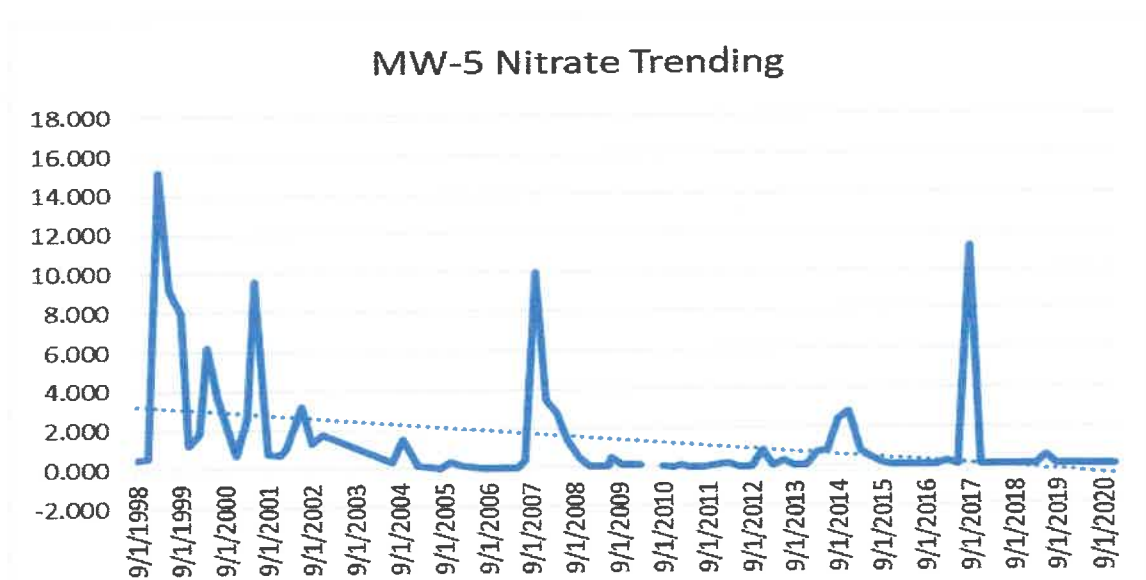


MW-3R Nitrate Trending



MW-4 Nitrate Trending





TDS exceeded in wells at times in the past. There have been no exceedances since the end of 2012.

Fecal coliform is normally non-detect in the wells but there have been a few “hits” over the years. There was no follow up sampling to verify the results, so they are considered correct. The result in MWC-6 of 16 #/100 ml, 2<sup>nd</sup> quarter 2020, is an example of how the wells have inexplicable fecal “hits” at times.

pH in the wells is often below the minimum limit of 6.5 s.u. **Please make the limit for the minimum for this parameter “Report Only”.**

Chlorides in the wells has been compliant and appear to have declined overall since approximately 2010.

## CHAPTER 5 – OPERATION AND MAINTENANCE PROGRAM

An updated Operation and Maintenance Manual is on site at the facility and a copy may be provided upon request. The current O & M Manual is a working document and must be updated by the operator as changes occur.

**The maintenance program overall is adequate.**

## CHAPTER 6 – COLLECTION SYSTEM EVALUATION

The collection system piping, and the lift stations, based on the information from the operator appears to be satisfactory. The owner replaced areas of piping or manholes causing Infiltration and/or Intrusion during the most recent permit cycles. The influent concentrations are low for both parameters but is not believed to be necessarily due to I/I. The influent samples are 8-hr FPC.

## CHAPTER 7 – PROBLEMS, DEFICIENCIES AND CORRECTIVE ACTION(S)

The overall condition of the plant was good. The equipment is in good condition but there appear to be some issues at times, causing non-compliance. The following are recommendations based on the plant site visit and data review:

Problem/Deficiency	Consequences	Recommendations	Completion Time
TSS does not meet limits at times.	Violation of rule and permit.	Correct the issues with line plugging and airlift situations by maintenance and operator recommendations. Also, the operator reports “debris” in the lift stations creating issues with the plant operation. If TSS does not meet limits more consistently in the future, the filters will have to be evaluated. Haul more frequently from the digester and increase wasting if necessary. <b>Begin the addition of alum or a coagulant/precipitant to increase settling in the Clarifier. Generation of more sludge will increase wasting and hauling.</b>	<b>Review any issues with the airlift line and provide a report to the agency: December 1, 2021. Media may need to be added, cleaned and/or raked after each upset event. Get approval of additive and begin use with the renewed permit effective date.</b>
Fecal does not meet limits at times.	Violation of rule and permit.	Increase the Total Residual Chlorine if needed to increase the disinfection effectiveness. Address the TSS situation to also improve the chlorination process.	<b>Fecal exceedances were related to the airlift line in the Clarifier with resulting overflow to the filters. Immediately address fecal exceedances.</b>
Nitrate in the effluent and the groundwater monitoring wells.	Violation of rule and permit.	The aeration is approximately 18 hours per day. Introduce <i>process control</i> whether by measuring Dissolved Oxygen or meter measurement of Nitrate. Adjust the pH. If the Nitrate exceeds the limit of 12.0 mg/L then within 60 days of more than 2	<b>Adjust air and start process control immediately. By effective date of the renewed permit: Install a Dissolved Oxygen controller or ORP meter to help with adjustment</b>

		exceedances within a 12-month running period, permit addition of caustic and increase the pH in the wastewater.	<i>of air based on process control. If Nitrate continues to exceed the limit for 2 results in a running 12-month period, submit a permit modification within 60 days of second exceedance to add caustic.</i>
pH in well(s) is below the groundwater limit.	Would be considered a violation of the rule and permit.	Request that the agency review the background and change the lower limit or make the limit "Report".	<b>Agency to implement if approved.</b>
Nitrate in the wells is exceeding the limit with more frequency.	Violation of groundwater rule, permit and limits.	Better control of Nitrate in the effluent.	<b>See Nitrate recommendations above.</b>
Solids in the ponds due to some upsets tied to debris in the lift station issues per the operator.	Could contribute to issues in the groundwater wells.	Clean the ponds and scarify.	<b>Complete by June 1, 2021.</b>

#### Summary of Recommendations:

1. Review the issues with the airlift system and the lift station. Provide a report with recommendations, if the problems continue, by **December 1, 2021** with a schedule to make corrections including timeframe for permit modification submittal if required.
2. As part of the renewed permit, obtain approval for addition of alum or coagulant to increase settling in the Clarifiers. Begin addition with the **effective date of the renewed permit**. Increase wasting and hauling if necessary.
3. Install a Dissolved Oxygen controller or metering to assist with adjusting air to the plant. Installation as part of the permit renewal; **effective date of the permit**.
4. If the effluent exceeds the Nitrate limit of 12.0 mg/L for 2 events in a 12-month rolling period, then **within 60 days of becoming aware of the second exceedance meeting the criteria, submit a permit modification request to add caustic to raise the pH in the effluent.**
5. Clean the entrained solids from the ponds and scarify by **June 1, 2021**.
6. Continue to work with Florida Rural Water Association to address challenges at the facility and the collection system, i.e., especially the lift stations.

To obtain reasonable assurance and obtain the renewed permit, the facility must be adjusted to assure that compliance with the limits will be met consistently.



The facility is well maintained. The higher TSS results appear to be impacting the Fecal Coliform results. It is important to make sure all equipment works properly to meet the TSS limit. There were and are airlift issues and now lift station problems the operator credits for the plant upsets, causing higher TSS and Fecal Coliform results. These must be addressed immediately.

*Follow up samples need to be taken from the wells if the parameter is exceeded, especially for parameters such as Fecal Coliform. The Nitrate groundwater results have been compliant for the past two (2) quarterly sampling events.*

**ATTACHMENT I**  
**PHYSICAL INSPECTION CHECKLIST**

O&M Manual ✓ Permit ✓  
Op. license ✓ NEAC ✓  
RIPZ: No potable water use  
treated effluent for  
washdown

Tyrraher Creek WWTF  
Permitted: 0.131 mgd  
Running: See CAR  
Date: 2/24/2021  
FLA 11193

ATTACHMENT 2

Flow: Get copy  
Where is flow measured? V-notch end of treatment  
Collection System: Sign I/I? No (addressed over past  
few years)  
Condition ⓐ F P

FIELD EVALUATION FORM FOR  
OPERATION AND MAINTENANCE PERFORMANCE REPORTS FOR  
DOMESTIC WASTEWATER FACILITIES

General: Fence? y Gate? y Locked? y Sign? y  
Emer # y Veg cut? y Corrosion? little  
Cond: ⓐ F P

Lift Stn: #3 all remote - all pump to plant  
# pumps 2 Alt? y Evenly? y Auto? y Cond: ⓐ F P  
Cond water sed? ⓐ F P Alarms? y Audible? y Visual? y

Florida Department of Environmental Regulation

Have "mission control" to call out if issues.

Surge Tank: #1 @ 37625 gals Cond: ⓐ F P

Alarm? No Has emergency overflow to Aeration Basins?

Pumps or airlift? #2 ALT y (manually) Splitter box? y

Dedicated blower? y #2 July 1992 (blowers alternated manually)

Screen #1 Cond: ⓐ F P Screenings covered? y  
properly managed? y Where to? landfill

Notes: ① Solids in ponds. Need to clean.  
② TSS Nitrate & fecal have exceeded limits  
③ Nitrate exceeded in some wells in 2020.  
④ Effluent was turbid.  
⑤ Plant structure looked good. Must meet high std.  
limits on effluent due to setbacks and nearby surface  
waters.  
⑥ Operator is working w/ FRWA to assist with  
issues at the plant.

# FIELD EVALUATION FORM FOR OPERATION AND MAINTENANCE PERFORMANCE REPORTS FOR DOMESTIC WASTEWATER FACILITIES

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## PHYSICAL CONDITION

### Hydraulic and Organic Overloading

1. Is there evidence of past spills at the plant or through nearby (upstream) manholes? (Discoloration of the ground or a strong smell may indicate past spills at the plant.) ☐ yes ☒ no
2. Are raw sewage pumping stations, influent lines, overflow weirs, or other structures surcharged? ☐ yes ☒ no
3. Is there flow through bypass channels? ☐ yes ☒ no
4. Are there old high water lines or are the weirs on the clarifier flooded? ☐ yes ☒ no
5. Are there overflows at alternative discharge points, channels, or other areas? ☐ yes ☒ no
6. Are there any open-ended pipes that appear to originate in a process or storage area and periodically contain flows to the ground or to surface water? (Although these pipes have been disconnected from a closed system or otherwise removed from service, they can still be connected to a discharge source.) ☐ yes ☒ no
7. Is the facility receiving excessive septage dumping from septic tanks? ☐ yes ☒ no
8. Are checks for overflows performed routinely? ☒ yes ☐ no

### General Condition

1. Is there evidence of corrosion problems at the treatment plant and in the collection system? ☐ yes ☐ no *very slight. Plant well maintained*
2. Do any of the units or associated equipment show signs of excessive wear? ☐ yes ☒ no

### Rule Requirements

1. Does each component, system, or process meet the applicable reliability standards required by Rule 17-600.400(1)(b), F.A.C.? ☒ yes ☐ no
  2. Does the facility have adequate alarm systems for power or equipment failures as recommended by standard design references? ☒ yes ☐ no
- Are they working properly? ☒ yes ☐ no

3. Is standby power or other equivalent provisions provided for all components, systems, and processes as recommended by standard design references? ( ) yes ( ) no *access to generator*
4. Are there adverse effects resulting from odors, noise, aerosol drift, and lighting at the facility? ( ) yes ( ) no
5. Are there piles of collected screenings, slurries, residuals, or by-products of treatment? ( ) yes ( ) no *properly managed*  
(Their disposal, including run-off of any water, must be such that none enters surface waters or their tributaries.)

### Operating Problems

1. Are all components, systems, or processes (including associated equipment such as pumps, blowers, air compressors, oxygen systems, scum collection systems, residuals collection systems, diffusers, mechanical aerators, mechanical drives, mechanical mixers, motors, residuals heater, feed systems, backwash systems, control systems, flow measurement devices, automatic valves, ventilation fans, and other miscellaneous equipment) operating properly? ☒ yes ( ) no

If no, explain.

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2. Are any components, systems, or processes out of service? ( ) yes ( ) no

If yes, complete the following table for each component, system, or process that is not operating.

Name	Date Out of Service	Type of Failure	Expected Date to Return to Service

3. Are there excessive noises associated with any component, system, or process? ( ) yes ( ) no

4. Is there any unusual equipment intended to correct operational problems (e.g. special pumps, floating aerators in diffused air systems, chemical feeders, temporary construction or structures, or any improvised systems)? ( ) yes ( ) no
5. Are all components, systems, and processes expected to continue to operate properly for the permit period? (✓) yes ( ) no

If no, explain. \_\_\_\_\_

*5-yr permit*

### Safety Features

1. Are proper safety precautions used for each component, system, and process? ( ) yes ( ) no

If no, explain. \_\_\_\_\_

2. Is a written set of safety rules available to all employees? ( ) yes ( ) no *Contract operator*

3. Is the plant generally clean and free from open trash areas? (✓) yes ( ) no

4. Is the plant site enclosed with a fence or otherwise designed with appropriate features that discourage the entry of animals or unauthorized persons? (✓) yes ( ) no

5. Are wastewater pipes clearly distinguished from product pipes? (✓) yes ( ) no

6. Are there any cross connections between a potable water supply and non-potable source? ( ) yes ( ) no *No potable*

7. Does the plant have the following recommended safety equipment?

*NA* a. Portable air blower (gas motor or electric motor operated) ( ) yes ( ) no

b. Electric explosion-proof lantern ( ) yes ( ) no

c. Safety harness ( ) yes ( ) no



- MAF
- d. Hose mask with hand blower and 50-foot hose ☐ yes ☐ no
- e. Self contained breathing apparatus for plants using chlorine  
☐ yes ☐ no ☐ not applicable
- f. Explosion and oxygen meters ☐ yes ☐ no
8. Is personal protective clothing provided (safety helmets, ear protectors, goggles, gloves, rubber boots with steel toes, etc.)?  
☐ yes ☐ no *contract op.*
9. Are portable hoists available for equipment removal? ☐ yes ☐ no  
*some hoists in the plant compounds*
10. Are ladders provided to enter manholes of wetwells (fiberglass or wooden for electrical work)? ☒ yes ☐ no
11. Are life preservers and throwlines provided adjacent to all basins, ponds, and lagoons? ☐ yes ☐ no *grating & handrails*
12. Are handrails provided and in-place around all basins and openings?  
☒ yes ☐ no
13. Are all stairs, walkways, and platforms free of grease, oil, and debris and are nonskid surfaces used when needed? ☒ yes ☐ no
14. Is adequate lighting provided? ☒ yes ☐ no
15. Are all components, systems, and processes adequately ventilated?  
☒ yes ☐ no *outdoors*
16. Are protective guards provided and in-place on all rotating machinery?  
☒ yes ☐ no
17. Is all electrical circuitry enclosed and identified? ☒ yes ☐ no
18. Are appropriate warning signs posted (no smoking, high voltage, non-potable water, chlorine hazard, toxic and flammable gases, etc.)? ☐ yes ☐ no *only hypo*
19. Are emergency shower and eye wash facilities provided where needed?  
☐ yes ☐ no *none noted*
20. Are appropriate fire extinguishers provided where needed?  
☐ yes ☐ no *none noted*
21. Is instrumentation provided and operational for the detection of toxic and flammable gases and low oxygen levels?  
☐ yes ☐ no *NA*
22. Do pressure vessels operate within their design rating and have a functional pressure relief? ☐ yes ☐ no ☒ not applicable

23. Are chemicals stored properly? ☒ yes ☐ no *hydro only*
24. Are undiked oil/chemical storage tanks used at the facility?  
☐ yes ☐ no ☒ not applicable
25. Are chemical storage tanks designed to handle the particular chemical? ☐ yes ☐ no ☒ not applicable
26. Are storage bins provided with dust collectors and vents?  
☐ yes ☐ no ☒ not applicable
27. Are storage bins large enough to avoid continuous filling which requires the presence of an operator all the time?  
☐ yes ☐ no ☒ not applicable
28. Are access points for sampling dry points which can be reached safely? ☒ yes ☐ no

## OPERATION AND MAINTENANCE PROGRAM

### Staffing

1. Is the facility adequately staffed with certified operators in accordance with the requirements of Rule 17-602, F.A.C.? ☒ yes ( ) no

### Maintenance Management

1. Is there an identification system to locate and identify all items of equipment? ☒ yes ( ) no *Drawing, site plan & flow diagram*
2. Does the facility maintain a records system which includes the following?
  - a. Preventive and corrective maintenance work performed ( ) yes ( ) no
  - b. Maintenance man-hours ( ☒ ) yes ( ) no
  - c. Spare parts used in the repair ( ☒ ) yes ( ) no
  - d. Name of the person performing the work ( ☒ ) yes ( ) no
  - e. Maintenance related costs ( ☒ ) yes ( ) no
3. Is routine and preventive maintenance scheduled and performed on time? ( ☒ ) yes ( ) no
4. Are adequate spare parts and supply inventories maintained for each component, system, and process? ( ☒ ) yes ( ) no *Could use review*
5. Is the maintenance program adequate? ( ☒ ) yes ( ) no  
If no, explain. *There are times when debris impacts lift station. Also some 7.55 results have notes that return may have clogged.*

### Records Keeping

1. Are records required by the permit maintained for a period of five years? ( ☒ ) yes ( ) no
2. Is the information required by the permit available, complete, and current? ( ☒ ) yes ( ) no

3. Are analytical results consistent with the data reported in the following?
- a. Monthly operating report ( ☒ ) yes ( ) no
  - b. Limited wet weather discharge report ( ) yes ( ) no *NA*
  - c. Ground water monitoring report ( ☒ ) yes ( ) no
  - d. Reclaimed water or effluent analysis report ( ☒ ) yes ( ) no *attached*
4. Do sampling and analyses data include the following?
- a. Dates, times, and location of the sampling ( ☒ ) yes ( ) no
  - b. The name of the individual performing the sampling ( ☒ ) yes ( ) no
  - c. The analytical methods and techniques used ( ☒ ) yes ( ) no
  - d. The results of the analyses and calibration ( ☒ ) yes ( ) no
  - e. The dates of the analyses ( ) yes ( ) no
  - f. The name of the person performing the analyses ( ☒ ) yes ( ) no
  - g. The instantaneous flow at the grab sample station ( ☒ ) yes ( ) no
5. Do monitoring records include records for all parameters that must be monitored in accordance with the permit? ( ☒ ) yes ( ) no
6. Are flow meter calibration records available?  
☒ ) yes ( ) no *see copy in app.*
7. Are laboratory equipment calibration and maintenance records adequate?  
( ) yes ( ) no *not reviewed*
8. Are plant records adequate and do they include the following?
- a. A copy of the Department permit ( ☒ ) yes ( ) no
  - b. An up-to-date operation and maintenance manual ( ☒ ) yes ( ) no
  - c. Record drawings ( ) yes ( ) no *at office*
  - d. Schedules and dates of equipment maintenance repairs ( ☒ ) yes ( ) no *log book*
  - e. Equipment suppliers manual ( ) yes ( ) no
  - f. Equipment data cards or equal ( ) yes ( ) no } *specs w/ manual @ office*

9. Are operating records adequate? (☒) yes ( ) no
10. Have all untreated bypasses and discharges or overflows been reported to the Department? ( ) yes ( ) no
- If no, explain. None noted
- 
- 

#### Sampling

1. Are ~~samples~~ taken at the sites specified in the permit?  
(☒) yes ( ) no
2. Is ~~sampling and analysis~~ completed for each parameter specified by the permit? (☒) yes ( ) no
3. Is the frequency of sampling in accordance with the permit?  
(☒) yes ( ) no
4. Is the method of ~~sample~~ collection (grab or composite) in accordance with the permit? (☒) yes ( ) no
5. Are ~~sample~~ collection procedures in accordance with the approved test procedures referenced in Rule 17-601.400(1)(a), F.A.C.? (☒) yes ( ) no
6. For flows of 100,000 gallons per day or greater, are recording flow meters and totalizers used? (☒) yes ( ) no ( ) not applicable
7. Are ~~flow~~ recording devices calibrated at least annually?  
(☒) yes ( ) no ✓ - notch

#### Laboratory Analysis

1. Are all laboratory tests required by Department rules performed by a laboratory that has been certified by HRS, or, for on-site tests for dissolved oxygen, pH, and total chlorine residual, are all tests performed by a certified laboratory or under the direction of an operator certified in accordance with Chapter ~~17~~<sup>62</sup>-602, F.A.C.? (☒) yes ( ) no

**INDIVIDUAL COMPONENTS, SYSTEMS, AND PROCESSES**

# PUMPING

## Raw Wastewater

1. What is the location of the pump station? 3 all remote
2. What are the design flows to the pump station? 0.131 <sup>mgd total</sup> <sub>gpm average</sub>
3. What are the actual flows to the pump station? see CAR <sub>gpm average</sub>
4. What type of pump control system is used? ☐ variable speed  
☒ constant speed
5. If the control system is variable speed, what type of controller is used? mission control ☒ not applicable
6. If multiple pumps are used, how is each unit operated?  
☐ about 15-20% apart ☒ equally ☐ not alternated  
☐ not applicable
- Is the system remotely monitored? ☒ yes ☐ no ☐ not applicable call out
7. Does the pump station have a bypass? ☐ yes ☒ no
- If yes, can the bypass flow be disinfected?  
☐ yes ☐ no ☒ not applicable
8. Can the wet well be isolated into a minimum of two separate basins for maintenance? ☐ yes ☒ no
9. If one wet well basin is down for maintenance, how many pumps are operable? NA
10. Does the wet well design provide for equal division of flow to each of the pumps? ☒ yes ☐ no
11. What is the condition of the sump pump?  
☒ good ☐ fair ☐ poor ☐ not applicable
12. What is the condition of the water seal systems?  
☒ good ☐ fair ☐ poor ☐ not applicable
13. How often is the pump station checked? ☒ daily ☐ other \_\_\_\_\_
14. What is the downtime of the pumps? 7
15. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year daily per op. coverage.  
The 45 are in the community.

- \* 16. If the pump station is constant speed, do sudden surges affect the operation of the treatment facility when each pump is activated?  
( ) yes (X) no ( ) not applicable
17. What is the general condition of the raw wastewater pump station?  
(X) good ( ) fair ( ) poor
18. What are the most common problems that the operator has had with the pump station? If there are problems with the screens, use the section on screens. None noted w/ the equipment

Residents put various items into the toilets causing problems



# PUMPING

## Residuals

1. What is the design residuals pumping rate? 7 gallons/day not metered
2. What is the actual residuals pumping rate? 7 gallons/day
3. What types of residuals are <sup>air lifted</sup> pumped? ( ) primary  
(☒) return activated sludge (☒) waste activated sludge  
( ) other
4. How are residuals <sup>air lifted</sup> pumped? (☒) manually (☒) automatically <sup>RAS</sup>
5. How often do the residuals pumps run? on 19hrs / off 5hrs
6. What is the frequency of maintenance inspections by plant personnel?  
per op. coverage /year
7. What is the general condition of the residuals <sup>air lift</sup> pump station?  
(☒) good ( ) fair ( ) poor
8. What are the most common problems that the operator has had with the pump station?  
Return plugs at times.  
Causes ISS & other issues

may need  
adjusting.  
Also a P.O. meter  
(auto) might help  
control nitrate

✓ notch weir

# FLOW MEASUREMENT

1. What type of flow meter is used? ☐ propeller meter  
☐ magnetic meter ☐ venturi tube ☐ flow tube  
☐ positive displacement ☐ diaphragm meter ☒ weir  
☐ Parshall flume ☐ rotameter ☐ other \_\_\_\_\_
2. What is the design capacity of the flow measurement device?  
8.131 mgd
3. What is the present wastewater flow measured? See CAR mgd
4. Where is the flow meter located? End of process
5. Are the flow measurement device and associated instruments (totalizers, recorders, etc.) properly installed? ☒ yes ☐ no
6. Is there adequate straight length of pipe or channel before and after the flowmeter? ☐ yes ☐ no NA
7. Is the flow entering the flume reasonably well-distributed across the channel and free of turbulence, boils, or other disturbances?  
☐ yes ☐ no ☒ not applicable
8. Is the flow measurement system capable of measuring the entire range of wastewater flow? ☒ yes ☐ no
9. Are flow measurements being properly made by plant personnel?  
☒ yes ☐ no
10. Are flow records properly kept? ☒ yes ☐ no
11. Are sharp drops or increases in flow records accounted for?  
☐ yes ☐ no some seasonality
12. Does the flow chart exhibit uniform flow? ☐ yes ☐ no seasonal
13. Do any plant return flows discharge upstream from the meter?  
☐ yes ☒ no
14. Are float and bubble wells clean and free of grease and debris?  
☐ yes ☐ no ☒ not applicable
15. Are weirs free of debris? ☒ yes ☐ no ☐ not applicable
16. Are weirs or flumes broken or cracked?  
☐ yes ☒ no ☐ not applicable
17. Are weir plates corroded or damaged, not sharp edged ( $\leq 1/8"$ ), or not level? ☐ yes ☒ no ☐ not applicable
18. Are stilling wells clogged or broken?  
☐ yes ☒ no ☐ not applicable

19. What is the frequency of calibration of the flow meter?  
\_\_\_\_\_/month annual
20. What date was the flow meter last calibrated? see attached copy
21. Who performed the calibration? FRWA
22. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day per op coverage
23. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year
24. What is the general condition of the flow measurement facilities?  
( ☒ ) good ( ) fair ( ) poor
25. What are the most common problems that the operator has had with the flow meter? None noted
- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## PRELIMINARY TREATMENT

### Screens

1. What is the design flows of the screens? 0.131 mgd average  
\_\_\_\_\_ mgd peak
2. What is the actual plant flow? See CR mgd average  
\_\_\_\_\_ mgd peak
3. What type of screens are used? (☒ manual) (☐ mechanical)
4. How many screens are there? 1
5. What is the capacity of each screen? 0.131 mgd
6. How large are the screen openings? 2 millimeters
7. What are the dimensions of the channels? ?
8. What is the total daily volume of screenings? ? cubic feet
9. What is the unit volume of screenings?  
\_\_\_\_\_ cubic feet/million gallons
10. Is there excessive screen clogging or build-up of debris against the screens? (☐ yes) (☒ no)
11. Is there a bypass channel? (☐ yes) (☒ no) overflow to surge  
Does the bypass channel have a screen?  
(☐ yes) (☐ no) (☒ not applicable)
12. Does the influent channel design provide equal division of flow to each screen? (☐ yes) (☐ no) NA
13. How are screenings disposed? landfill
14. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day per of covergt
15. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
16. What is the downtime of the screens? NA
17. What is the general condition of the screening facilities?  
(☒ good) (☐ fair) (☐ poor)
18. What are the most common problems that the operator has had with the screening facilities? None noted

NA

**PRELIMINARY TREATMENT**

Shredding and Grinding (Comminution)

1. How many shredding and grinding units are there? \_\_\_\_\_
2. What is the design capacity of each unit? \_\_\_\_\_ mgd
3. What is the actual flow to each unit? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
4. If multiple units are used, is the flow evenly distributed?  
( ) yes ( ) no
5. What are the dimensions of the channels? \_\_\_\_\_
6. Is there a bypass channel? ( ) yes ( ) no
7. What is the general condition of the shredding and grinding facilities? ( ) good ( ) fair ( ) poor
8. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
9. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
10. What is the downtime of the shredding and grinding facilities?  
\_\_\_\_\_
11. What are the most common problems that the operator has had with the shredding and grinding facilities?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PRELIMINARY TREATMENT

Pump off  
basins when  
pump D. starts  
Last 10/2020

Grit Removal

1. What is the design capacity of the grit removal system?  
\_\_\_\_\_ mgd average \_\_\_\_\_ mgd peak
2. What is the actual plant flow? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
3. What type of grit removal system is used? ☐ velocity controlled  
☐ aerated ☐ constant head ☐ other \_\_\_\_\_
4. How many grit removal units are there? \_\_\_\_\_
5. What is the capacity of each unit? \_\_\_\_\_
6. What are the dimensions of the unit? \_\_\_\_\_ cubic feet
7. What is the daily volume of grit? \_\_\_\_\_ cubic feet
8. What is the unit volume of grit? \_\_\_\_\_ cubic feet/million gallons
9. How is the grit collection equipment operated?  
☐ manually ☐ time clock ☐ continuous duty
10. Is the grit system clogged? ☐ yes ☐ no
11. Is the grit system subject to odors? ☐ yes ☐ no
12. Is the organic content of the grit excessive? ☐ yes ☐ no
13. Is there a bypass channel? ☐ yes ☐ no
14. Does the influent channel design provide equal division of flows to each grit removal unit? ☐ yes ☐ no
15. How is the grit disposed? \_\_\_\_\_
16. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
17. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
18. What are the most common problems that the operator has had with the grit removal facilities?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## BIOLOGICAL TREATMENT

### Activated Sludge

1. How many aeration basins are there? 2 @ 65,637 per each (in parallel)
2. What is the design capacity of each basin? 0.131 mgd total
3. What is the actual flow to each basin? see CAR mgd average  
\_\_\_\_\_ mgd peak
4. What is the flow regime? ( ) conventional ( ☒ ) extended step aeration  
( ) complete mix ( ) pure oxygen ( ) other \_\_\_\_\_
5. What type of aeration equipment is used?  
( ☒ ) diffused air ( ) mechanical aerators ( ) other \_\_\_\_\_
6. What are the dimensions of each aeration basin? 65,637 gal each
7. What is the color of the activated sludge? ( ) black ( ) dark brown  
( ☒ ) light brown ( ) other \_\_\_\_\_
8. What is the odor of the activated sludge? ( ) septic ( ☒ ) earthy  
( ) none ( ) other \_\_\_\_\_
9. What characteristics most accurately describe the foam?  
( ☒ ) light, crisp ( ) thick, dark ( ) heavy, white ( ) other \_\_\_\_\_
10. Are the tank contents mixed thoroughly? ( ☒ ) yes ( ) no
11. Are there excessive air leaks in the compressed air piping?  
( ) yes ( ) no ( ☒ ) not applicable
12. Is the dissolved oxygen level in the aeration tank low (<1.0 mg/l)?  
( ) yes ( ) no ✓
13. Does mixing appear excessive? ( ) yes ( ☒ ) no
14. Does air rise in clumps? ( ) yes ( ☒ ) no
15. Do there appear to be dead spots in the aeration basin?  
( ) yes ( ) no rectangular basins  
If yes, at what location? \_\_\_\_\_
16. What is the depth of the sand and grit layer? 2 feet
17. What is the active capacity of the aeration basin?  
131,274 / 7.48 cubic feet
18. Is the process operating in its design mode? ( ☒ ) yes ( ) no  
If no, explain. \_\_\_\_\_

19. Are the return activated sludge <sup>at RAS</sup> pumps operating? ☒ yes ( ) no  
If no, what is the reason? plug sometimes
20. Are there flow measurement devices for the return activated sludge and waste activated sludge systems? ( ) yes ☒ no
21. Does the aeration basin have a foam control system? ( ) yes ☒ no
22. If ~~multiple~~ basins are operating, is the flow distributed equally?  
☒ yes ( ) no ( ) not applicable parallel  
How is it distributed? \_\_\_\_\_
23. Are the characteristics of the basin contents different in the various units? ( ) yes ☒ no ( ) not applicable gravity & blower(s) times
24. How is the system operated? ( ) manually ( ) semi-automatically  
( ) automatically ( ) computer-controlled ( ) other \_\_\_\_\_
25. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day per op coverage
26. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year
27. What is the general condition of the activated sludge facilities?  
☒ good ( ) fair ( ) poor
28. What are the most common problems that the operator has had with the activated sludge system?  
periodically. The RAS line still plugs much less often however



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## BIOLOGICAL TREATMENT

### Trickling Filters

1. How many trickling filter units are there? \_\_\_\_\_
2. What is the design capacity of each unit? \_\_\_\_\_ mgd
3. What is the actual flow to each unit? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
4. What is the recycle flow? \_\_\_\_\_ mgd
5. How is the flow recycled? ☐ continuously ☐ intermittently
6. What is the filter classification? ☐ low rate  
☐ intermediate rate ☐ high rate ☐ super-high rate
7. What type of media is used? \_\_\_\_\_
8. What is the depth of the media? \_\_\_\_\_ feet
9. What is the diameter of each unit? \_\_\_\_\_ feet
10. What is the color of the filter? ☐ black ☐ dark brown  
☐ light brown ☐ other \_\_\_\_\_
11. What is the odor of the filter? ☐ septic ☐ earthy ☐ none  
☐ other \_\_\_\_\_
12. Is there evidence of uneven flow distribution from the trickling filter arms or on the trickling filter surface? ☐ yes ☐ no
13. Is there clogging of the trickling filter distribution arm orifices?  
☐ yes ☐ no
14. Is there evidence of filter clogging (e.g., ponding)?  
☐ yes ☐ no  
If yes, explain. \_\_\_\_\_
15. Is there evidence of filter flies? ☐ yes ☐ no  
Is there evidence of snails? ☐ yes ☐ no  
Is there evidence of roaches? ☐ yes ☐ no
16. Is there a leak at the center column of the trickling filter distribution arms? ☐ yes ☐ no
17. Is there restricted rotation of the distribution arms?  
☐ yes ☐ no

NA

18. Is there grass or other vegetative material growing on the filter?  
☐ yes ☐ no

If yes, what? \_\_\_\_\_

19. Are there flow measurement devices for the recirculation flow?  
☐ yes ☐ no

20. Are the recirculation pumps operating? ☐ yes ☐ no

If no, why? \_\_\_\_\_

21. If multiple filters are operating, is the flow distributed equally?  
☐ yes ☐ no ☐ not applicable

How is it distributed? \_\_\_\_\_

22. Are the characteristics of the filter contents different in the various units? ☐ yes ☐ no ☐ not applicable

If yes, describe. \_\_\_\_\_

23. How is the system operated? ☐ manually ☐ semi-automatically  
☐ automatically ☐ computer-controlled ☐ other \_\_\_\_\_

24. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day

25. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year

26. What is the general condition of the trickling filter facilities?  
☐ good ☐ fair ☐ poor

27. What are the most common problems that the operator has had with the trickling filter system?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## BIOLOGICAL TREATMENT

### Rotating Biological Contactors (RBCs)

1. How many RBC units (shafts) are there? \_\_\_\_\_
2. What is the design capacity of each unit? \_\_\_\_\_ mgd
3. What is the actual flow to each unit? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
4. What type of RBC media is used? \_\_\_\_\_
5. What type of RBC drive is used? \_\_\_\_\_
6. What is the surface area of each unit? \_\_\_\_\_
7. What is the color of the biomass? ☐ black ☐ dark brown  
☐ light brown ☐ other \_\_\_\_\_
8. What is the odor of the unit? ☐ septic ☐ earthy ☐ none  
☐ other \_\_\_\_\_
9. Is there excessive breakage of rotating disks or shafts?  
☐ yes ☐ no
10. Is rotation of the media uniform? ☐ yes ☐ no
11. Is the flow distributed equally to parallel shafts? ☐ yes ☐ no  
How is it distributed? \_\_\_\_\_
12. Are the characteristics of the tank contents different in the various  
units? ☐ yes ☐ no ☐ not applicable  
If yes, describe. \_\_\_\_\_
13. Are RBC units housed in a building? ☐ yes ☐ no  
Or does each unit have a cover? ☐ yes ☐ no
14. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
15. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
16. What is the general condition of the RBC facilities?  
☐ good ☐ fair ☐ poor

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17. What are the most common problems that the operator has had with the RBC system?

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## NITROGEN REMOVAL

### Suspended Growth Nitrification

1. How many aeration basins are there? \_\_\_\_\_
2. What is the design capacity of each basin? \_\_\_\_\_ mgd
3. What is the actual flow to each basin? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
4. How many stages does the nitrification system have? \_\_\_\_\_  
What type of flow regime (e.g., conventional) does each stage have?  
\_\_\_\_\_
5. What type of aeration equipment (e.g., diffused air or mechanical aerators) does each stage have? \_\_\_\_\_  
\_\_\_\_\_
6. What are the aeration basin(s) dimensions? \_\_\_\_\_
7. Characteristics of the Carbonaceous Oxidation Basin:  
What is the color of the activated sludge? ☐ black ☐ dark brown  
☐ light brown ☐ other \_\_\_\_\_  
What is the odor of the activated sludge? ☐ septic ☐ earthy  
☐ none ☐ other \_\_\_\_\_  
What characteristics most accurately describe the foam?  
☐ light, crisp ☐ dark, thick ☐ heavy, white  
☐ other \_\_\_\_\_
8. Characteristics of the Nitrification Basin:  
What is the color of the activated sludge? ☐ black ☐ dark brown  
☐ light brown ☐ other \_\_\_\_\_  
What is the odor of the activated sludge? ☐ septic ☐ earthy  
☐ none ☐ other \_\_\_\_\_  
What characteristics most accurately describe the foam?  
☐ light, crisp ☐ dark, thick ☐ heavy, white  
☐ other \_\_\_\_\_
9. Are the tank(s) contents mixed thoroughly? ☐ yes ☐ no
10. Are there excessive air leaks in the compressed air piping?  
☐ yes ☐ no ☐ not applicable
11. Is the dissolved oxygen level in the aeration tank(s) low  
( $\leq 1.0$  mg/l)? ☐ yes ☐ no

*MA*

12. Does mixing appear excessive? ( ) yes ( ) no
13. Does air rise in clumps? ( ) yes ( ) no
14. Do there appear to be dead spots in tank(s)? ( ) yes ( ) no  
If yes, at what location? \_\_\_\_\_
15. What is the depth of the sand and grit layer? \_\_\_\_\_ feet
16. What is the active capacity of the aeration basin?  
\_\_\_\_\_ cubic feet
17. Is the process operating in its design mode? ( ) yes ( ) no  
If no, explain \_\_\_\_\_
18. Are the RAS pumps operating? ( ) yes ( ) no  
If no, what is the reason? \_\_\_\_\_
19. Are there flow measurement devices for the RAS and WAS systems?  
( ) yes ( ) no
20. Does the aeration basin(s) have a foam control system?  
( ) yes ( ) no
21. If multiple basins for each step are operating, is the flow distributed equally? ( ) yes ( ) no ( ) not applicable  
How is it distributed? \_\_\_\_\_
22. Are the characteristics of the basin contents for each step different?  
( ) yes ( ) no  
If yes, describe. \_\_\_\_\_
23. Is there an alkaline buffer added? ( ) yes ( ) no  
If yes, what is it? \_\_\_\_\_  
If yes, what is the dose? \_\_\_\_\_
24. How is the system operated? ( ) manually ( ) semi-automatically  
( ) automatically ( ) computer-controlled ( ) other \_\_\_\_\_
25. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
26. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year

NA

27. What is the general condition of the nitrification facilities?  
( ) good ( ) fair ( ) poor
28. What are the most common problems that the operator has had with the nitrification system? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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NITROGEN REMOVAL

Nitrifying Trickling Filters

1. How many stages does the nitrification system have? \_\_\_\_\_
2. How many trickling filter units are there in each stage? \_\_\_\_\_
3. What is the design capacity of each unit? \_\_\_\_\_ mgd
4. What is the actual flow to each unit? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
5. What is the recycle flow to each stage? \_\_\_\_\_  
How is the flow recycled? ( ) continuously ( ) intermittently
6. What type of media is used? \_\_\_\_\_
7. What is the depth of the media? \_\_\_\_\_ feet
8. What is the diameter of each unit? \_\_\_\_\_
9. Characteristics of the Oxidation Tower:  
What is the color of the filter? ( ) black ( ) dark brown  
( ) light brown ( ) other \_\_\_\_\_  
What is the odor of the filter? ( ) septic ( ) earthy  
( ) none ( ) other \_\_\_\_\_
10. Characteristics of the Nitrification Tower:  
What is the color of the filter? ( ) black ( ) dark brown  
( ) light brown ( ) other: \_\_\_\_\_  
What is the odor of the filter? ( ) septic ( ) earthy  
( ) none ( ) other \_\_\_\_\_
11. Is there evidence of uneven flow distribution from the trickling filter arms or on the trickling filter surface? ( ) yes ( ) no
12. Is there clogging of the trickling filter distribution arm orifices? ( ) yes ( ) no
13. Is there evidence of filter clogging (e.g., ponding)? ( ) yes ( ) no  
If yes, explain. \_\_\_\_\_



- AA
14. Is there evidence of filter flies? ☐ yes ☐ no  
Is there evidence of snails? ☐ yes ☐ no  
Is there evidence of roaches? ☐ yes ☐ no
15. Is there a leak at the center column of the trickling filter distribution arms? ☐ yes ☐ no
16. Is there restricted rotation of the distribution arms?  
☐ yes ☐ no
17. Is there grass or other vegetative material growing on the filter?  
☐ yes ☐ no  
If yes, what? \_\_\_\_\_
18. Are there flow measurement devices for the recirculation flow?  
☐ yes ☐ no
19. Are the recirculation pumps operating? ☐ yes ☐ no  
If no, why? \_\_\_\_\_
20. If multiple filters are operating for each stage, is the flow distributed equally? ☐ yes ☐ no ☐ not applicable  
How is it distributed? \_\_\_\_\_
21. Are the characteristics of the filter contents different in the various units of each stage? ☐ yes ☐ no ☐ not applicable  
If yes, describe. \_\_\_\_\_
22. How is the system operated? ☐ manually ☐ semi-automatically  
☐ automatically ☐ computer-controlled ☐ other \_\_\_\_\_
23. Is there an alkaline buffer added? ☐ yes ☐ no  
If yes, what is it? \_\_\_\_\_  
If yes, what is the dose? \_\_\_\_\_
24. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day
25. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year

NA

26. What is the general condition of the nitrification facilities?  
( ) good ( ) fair ( ) poor

27. What are the most common problems that the operator has had with the nitrification facilities? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NA

## NITROGEN REMOVAL

### Nitrifying Rotating Biological Contactors

1. How many stages does the nitrification system have? \_\_\_\_\_
2. How many RBC units (shafts) are there in each stage? \_\_\_\_\_
3. What is the design capacity of each unit? \_\_\_\_\_ mgd
4. What is the actual flow to each unit? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
5. What type of RBC media is used? \_\_\_\_\_
6. What type of RBC drive is used? \_\_\_\_\_
7. What is the surface area of each unit? \_\_\_\_\_
8. What is the color of the biomass? ☐ black ☐ dark brown  
☐ light brown ☐ other \_\_\_\_\_
9. What is the odor of the unit? ☐ septic ☐ earthy ☐ none  
☐ other \_\_\_\_\_
10. Is there excessive breakage of rotating disks or shafts?  
☐ yes ☐ no
11. Is rotation of the media uniform? ☐ yes ☐ no
12. Is the flow distributed equally to parallel shafts? ☐ yes ☐ no  
How is it distributed? \_\_\_\_\_
13. Are the characteristics of the tank contents different in the various  
units? ☐ yes ☐ no ☐ not applicable  
If yes, describe. \_\_\_\_\_
14. Is there an alkaline buffer added? ☐ yes ☐ no  
If yes, what is it? \_\_\_\_\_  
If yes, what is the dose? \_\_\_\_\_
15. Are RBC units housed in a building? ☐ yes ☐ no  
Or does each unit have a cover? ☐ yes ☐ no
16. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day

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17. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
18. What is the general condition of the nitrification facilities?  
( ) good ( ) fair ( ) poor
19. What are the most common problems that the operator has had with the  
nitrification facilities? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NITROGEN REMOVAL

Only use  
Cycling of blowers.  
See Recommendations.

Denitrification

1. How many denitrification units are there? \_\_\_\_\_
2. What is the design capacity of each unit? \_\_\_\_\_ mgd
3. What is the actual flow to each unit? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
4. What is the type of denitrification system? ( ) suspended growth  
( ) attached growth ( ) other \_\_\_\_\_
5. What type of mixing equipment or media is used? \_\_\_\_\_
6. What are the tank (or column) dimensions? \_\_\_\_\_
7. Are the tank contents mixed thoroughly? ( ) yes ( ) no
8. Does mixing appear excessive so as to cause oxygenation?  
( ) yes ( ) no
9. Do there appear to be dead spots in the tank? ( ) yes ( ) no  
If yes, at what location? \_\_\_\_\_
10. Is the process operating in its design mode? ( ) yes ( ) no  
If no, explain. \_\_\_\_\_
11. How is the system operated? ( ) manually ( ) semi-automatically  
( ) automatically ( ) computer controlled ( ) other \_\_\_\_\_
12. Is the wastewater temperature below 15°C? ( ) yes ( ) no
13. Is the wastewater pH below 6.0 or above 8.0? ( ) yes ( ) no
14. Is there excessive methanol? ( ) yes ( ) no
15. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
16. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
17. What is the general condition of the denitrification facilities?  
( ) good ( ) fair ( ) poor
18. What are the most common problems that the operator has had with the  
denitrification facilities? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## CHEMICAL TREATMENT

### Chemical Feeding and Conditioning

This chemical feeding checklist relates to the liquid phase only. For the chemical feeds for residuals processing, refer to the individual residuals processes.

1. What are the actual plant flows? \_\_\_\_\_ mgd average \_\_\_\_\_ mgd peak
2. What chemicals are used? ☐ lime ☐ alum ☐ ferric chloride  
☐ sodium hydroxide ☐ other \_\_\_\_\_
3. Where is the chemical added? ☐ primary sedimentation  
☐ aeration basin ☐ secondary sedimentation ☐ chemical  
treatment facilities ☐ other \_\_\_\_\_
4. What is the chemical dose? \_\_\_\_\_ mg/l \_\_\_\_\_ lbs/mgd
5. What is the principal purpose of the chemical addition? \_\_\_\_\_
6. Is the chemical feed system automatically controlled?  
☐ yes ☐ no  
If yes, what is the method of control? ☐ pH of the waste stream  
☐ dose rate ☐ concentration per million gallons  
☐ other \_\_\_\_\_
7. What type of feed system is used? ☐ volumetric  
☐ belt gravimetric ☐ loss-in-weight gravimetric  
☐ metering pump ☐ other \_\_\_\_\_
8. Is there a portion-measuring device at the feed unit? ☐ yes ☐ no
9. Is pH being measured at the pH adjustment tank? ☐ yes ☐ no
10. Are chemicals left in the open atmosphere? ☐ yes ☐ no
11. Are chemicals outdated? ☐ yes ☐ no
12. Are chemicals stored, moved, and handled properly? ☐ yes ☐ no
13. Is there evidence of chemical spills between the storage area and the  
feed units? ☐ yes ☐ no
14. Are empty chemical containers properly disposed of? ☐ yes ☐ no
15. Are there appropriately sized berms or dikes at the liquid chemical  
feed units and storage areas? ☐ yes ☐ no ☐ not applicable

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16. Is chemical dust present at the feed unit area or storage and transfer areas? ( ) yes ( ) no ( ) not applicable
17. Is a reserve supply of chemicals maintained? ( ) yes ( ) no  
How many days of supply is maintained? \_\_\_\_\_
18. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day
19. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year
20. What is the general condition of the chemical feed facilities?  
( ) good ( ) fair ( ) poor
21. What are the most common problems that the operator has had with the chemical feed systems? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## CHEMICAL TREATMENT

### Rapid Mix, Flocculation, and Chemical Clarification

1. What is the actual plant flow? \_\_\_\_\_ mgd average \_\_\_\_\_ mgd peak
2. What is the total flow through the chemical treatment system?  
\_\_\_\_\_ mgd
3. How many units are there for each operation? \_\_\_\_\_  
\_\_\_\_\_
4. What is the flow through each unit? \_\_\_\_\_ mgd
5. If multiple units are used, is the flow divided equally?  
( ) yes ( ) no ( ) not applicable  
If no, what is the problem? \_\_\_\_\_
6. What type of rapid mixer is used? ( ) turbine ( ) propeller  
( ) pneumatic ( ) other \_\_\_\_\_
7. What type of flocculator is used? ( ) turbine ( ) paddles  
( ) other \_\_\_\_\_
8. What are the dimensions of the rapid mixing tank? \_\_\_\_\_
9. What are the dimensions of the flocculation tank? \_\_\_\_\_
10. What are the dimensions of the clarifier? \_\_\_\_\_
11. What is the depth of the sand and grit layer? \_\_\_\_\_ feet
12. What is the chemical coagulant? ( ) lime ( ) alum  
( ) ferric chloride ( ) ferric sulfate  
( ) other \_\_\_\_\_
13. What is the chemical dose? \_\_\_\_\_ mg/l
14. What is the detention time for rapid mixing? \_\_\_\_\_ seconds  
What is the detention time for flocculation? \_\_\_\_\_ minutes  
What is the detention time for clarification? \_\_\_\_\_ hours
15. What is the overflow rate of the clarifier? \_\_\_\_\_ gpd/ft<sup>2</sup>
16. What is the volume of residuals pumped? \_\_\_\_\_ gallons/day
17. What is the solids concentration of the residuals pumped? \_\_\_\_\_ %
18. Is there an automatic chemical feed control system? ( ) yes ( ) no  
If yes, what is the method of control? ( ) pH of waste stream  
( ) dose rate ( ) concentration per million gallons ( ) other



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19. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
20. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
21. What is the general condition of the rapid mix, flocculation, and clarification facilities? ( ) good ( ) fair ( ) poor
22. What are the most common problems that the operator has had with the rapid mix, flocculation, and clarification facilities? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## SEDIMENTATION

### Primary

1. How many primary sedimentation basins are there? \_\_\_\_\_
2. What is the design capacity of each basin? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
3. What is the actual flow to each basin? \_\_\_\_\_ mgd average  
\_\_\_\_\_ mgd peak
4. What are the dimensions of the basins? \_\_\_\_\_
5. Is the wastewater black or odorous? ☐ yes ☐ no
6. Is there an excessive accumulation of scum, grease, foam, or floating residuals in the clarifier? ☐ yes ☐ no
7. Are there excessive gas bubbles on the surface of the clarifier?  
☐ yes ☐ no
8. Is there scum overflow, lack of adequate scum disposal, or is the scum pit full? ☐ yes ☐ no
9. Does the tank surface indicate improper residuals withdrawal (i.e., excessive floating solids, gas, etc.)? ☐ yes ☐ no
10. What volume of residuals are pumped? \_\_\_\_\_ gallons/day
11. What is the solids concentration of the residuals? \_\_\_\_\_ %
12. Are there settleable solids in the effluent? ☐ yes ☐ no
13. How are residuals pumped? ☐ manually ☐ automatically
14. How often do residuals pumps run? \_\_\_\_\_ number of times each day  
How long do residuals pumps run? \_\_\_\_\_ number of minutes each time
15. Does the residuals collection system show any signs of mechanical failure? ☐ yes ☐ no
16. Are there excessive residuals on the bottom of the basin (i.e., inadequate residuals removal)? ☐ yes ☐ no
17. Are residuals withdrawal ports clogged? ☐ yes ☐ no
18. Does the influent baffle system accomplish its purpose?  
☐ yes ☐ no
19. Does the effluent baffle system accomplish its purpose?  
☐ yes ☐ no

- MA
20. Does the unit show signs of short circuiting and/or overloads?  
( ) yes ( ) no
21. Are the effluent weirs level? ( ) yes ( ) no
22. Are the effluent weirs kept clean? ( ) yes ( ) no
23. If multiple units are used, is the flow distributed evenly?  
( ) yes ( ) no ( ) not applicable
24. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day
25. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year
26. What is the general condition of the primary sedimentation facilities?  
( ) good ( ) fair ( ) poor
27. What are the most common problems that the operator has had with the  
primary sedimentation facilities? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# SEDIMENTATION

## Final

1. How many final sedimentation basins are there? 2 @ 12,600 gal each
2. What is the design capacity of each basin? 0.131 mgd average total  
\_\_\_\_\_ mgd peak
3. What is the actual flow to each basin? see CAR mgd average  
\_\_\_\_\_ mgd peak
4. What are the dimensions of the basins? 12,600 gal each
5. Is chemical addition used to improve settling? ( ) yes ( ☒ ) no  
If yes, what chemical(s) are added? (see recommendations)
6. Is there an excessive accumulation of scum, grease foam, or floating residuals in the clarifier? ( ) yes ( ☒ ) no
7. Are there excessive gas bubbles on the surface of the clarifier?  
( ) yes ( ☒ ) no
8. Is there scum overflow, lack of adequate scum disposal, or is the scum pit full? ( ) yes ( ☒ ) no
9. Does the tank surface indicate improper residuals withdrawal (i.e., excessive floating solids, gas, etc.)? ( ) yes ( ☒ ) no
10. What volume of residuals is pumped? \_\_\_\_\_ gpd total  
\_\_\_\_\_ gpd RAS \_\_\_\_\_ gpd WAS
11. What is the solids concentration of the residuals? ? %
12. Are there settleable solids in the effluent? ( ) yes ( ) no goes to filter
13. How are residuals pumped? as left ( ☒ ) manually ( ☒ ) automatically RAS
14. How often do residuals pumps run? see cycle number of times each day  
How long do residuals pumps run? info number of minutes each time
15. Does the residuals collection system show any signs of mechanical failure? ( ) yes ( ) no RAS line plugs at times still
16. Is there excessive residuals on the bottom of the basin (i.e., inadequate residuals removal)? ( ) yes ( ☒ ) no
17. Is there excessive solids/build-up in the center well of the clarifier? ( ) yes ( ☒ ) no
18. What is the depth of the sand and grit layer? 2 feet

19. Are residuals withdrawal ports clogged? ( ) yes (✓) no
20. Is the residuals blanket too high? ( ) yes (✓) no
21. Is there deflocculation in the clarifier? ( ) yes ( ) no
22. Is there pin floc in the overflow? ( ) yes ( ) no
23. Is there billowing sludge in the clarifier? ( ) yes ( ) no
24. Does the influent baffle system accomplish its purpose?  
(✓) yes ( ) no
25. Does the effluent baffle system accomplish its purpose?  
(✓) yes ( ) no
26. Does the unit show signs of short circuiting and/or overloads?  
( ) yes (✓) no
27. Are the effluent weirs level? (✓) yes ( ) no
28. Are the effluent weirs clean? (✓) yes ( ) no
29. If multiple units are used, is the flow distributed evenly?  
(✓) yes ( ) no ( ) not applicable *parallel*
30. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day *per up coverage*
31. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year
32. What is the general condition of the final sedimentation facilities?  
(✓) good ( ) fair ( ) poor
33. What are the most common problems that the operator has had with the final sedimentation facilities?  
*There is a problem with these at times causing issue to filters and TSS.*

*Slight ashing  
no pop ups  
no greasing*

*No control for Nitrogen except blower timer.*

*Use dip net too.*

# FILTRATION

1. How many filter units are there? 2 @ 43 sq ft. per each
2. What is the design capacity of each unit? 0.131 mgd <sup>total</sup> ~~average~~
3. What is the actual flow to each unit? see CAP mgd average  
\_\_\_\_\_ mgd peak
4. What type of filters are used? ☒ gravity ☐ pressure
5. What type of filter media is used? ☐ sand ☒ dual media (sand & gravel)  
☐ mixed media ☐ multi-media ☐ diatomaceous earth  
☐ other \_\_\_\_\_
6. What is the surface loading rate? \_\_\_\_\_ gpm/ft<sup>2</sup>
7. What is the backwash rate? \_\_\_\_\_ gpm/ft<sup>2</sup>
8. What is the surface wash rate? \_\_\_\_\_ gpm/ft<sup>2</sup>  
What is the pressure of the surface wash? \_\_\_\_\_ psi Backwash each daily, manually.
9. What type of control system is used? ☐ constant flow  
☐ headloss ☐ time ☐ turbidity of effluent  
☐ total gallons filtered ☐ other \_\_\_\_\_
10. Are the valves sequencing (opening and closing in order) correctly?  
☐ yes ☐ no NA
11. Is there a coagulant aid (filtration aid) system? ☐ yes ☒ no  
If yes, what type? \_\_\_\_\_
12. What are the dimensions of the filter? 43 sq ft each
13. How is the filter system operated? ☐ automatically ☐ manually  
☐ semi-automatically ☐ other feed from clarifier then operates auto
14. Is the filter surface clogged? ☐ yes ☒ no
15. Is the filter run short? ☐ yes ☒ no
16. Is there gravel displacement of the filter media? ☐ yes ☒ no
17. Is there formation of mud balls in the filter media? ☐ yes ☒ no
18. Is there air binding of the filter media? ☐ yes ☒ no
19. Is there a loss of filter media during backwashing? ☐ yes ☐ no

Last added in 2020.  
The pumps to the filters alternate to alt. use of filters. Use both.

20. Is there recycled filter backwash water in excess of five percent of the wastewater flow treated? ( ) yes ( ) no *no meter*

21. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_/day *prop. coverage*

22. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year *11*

23. What is the general condition of the filtration facilities?  
*to* ( ) good ( ☒ ) fair ( ) poor *There seems to be issues w/ TSS at times*

24. What are the most common problems that the operator has had with the filtration facilities?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Seems issues up gradient of filters does not allow for best results. See recommendations*

## DISINFECTION

### Chlorination

1. How many chlorine contact basins are there? 1 @ 6000 gals
2. What is the design capacity of each basin? 0-131 mgd <sup>total</sup> ~~average~~  
\_\_\_\_\_ mgd peak hourly flow
3. What is the actual flow to each basin? See CAR mgd average  
\_\_\_\_\_ mgd peak hourly flow
4. What are the dimensions of the basins? 6000 gals
5. What is the detention time of each contact basin at peak hourly flow?  
44 min minutes  $\frac{131000 \text{ gal}}{1440 \text{ min/day}} = 91 \text{ gpm} - \text{Surge Tank}$
6. What chlorine dosage is applied? > 2.0 mg/l  $91 \times 1.5 = 136.5 \text{ gpm}$
7. What is the normal level of chlorine residual in the basin effluent?  
> 1.0 mg/l must be > 1.0 final limit
8. Are disinfection standards being met? ☒ yes ☐ no
9. What type of chlorination system is being used? ☐ chlorine cylinders ☐ on-site sodium hypochlorite generation ☒ sodium hypochlorite solution ☐ calcium hypochlorite solution
10. What is the design capacity of the chlorination system?  
\_\_\_\_\_ lbs/day  
What is the maximum capacity of the chlorination system?  
\_\_\_\_\_ lbs/day
11. What is the configuration of the chlorine contact basin? ☒ "round"  
☐ rectangular ☐ other \_\_\_\_\_
12. Is the contact basin adequately baffled to minimize short-circuiting?  
☒ yes ☐ no
13. How is chlorine introduced into the wastewater entering the contact basin? ☐ perforated diffusers ☒ injector with single entry point  
☐ other \_\_\_\_\_
14. Are mechanical mixing provisions incorporated in the chlorine contact basins design? ☐ yes ☐ no
15. Is there an adequate reserve supply of chlorine? ☒ yes ☐ no  
How many days of supply is maintained? 2
16. Are there high temperatures in the chlorination rooms?  
☐ yes ☐ no NA



17. Is there a build-up of residuals in the basin? ( ) yes (✓) no *?? Ponds had solids*
18. Are there gas bubbles in the basin? ( ) yes (✓) no
19. Is there floating scum and/or solids in the basin? ( ) yes (✓) no *The*
20. Is there excessive foaming downstream? ( ) yes (✓) *NA* *basin should be pumped next haul.*
21. Is there evidence of toxicity (dead fish, other dead organisms) downstream? ( ) yes ( ) no *NA*
22. What is the frequency of routine inspections for proper operation?  
 \_\_\_\_\_ /day *per op. coverage*
23. What is the frequency of maintenance inspections by plant personnel?  
 \_\_\_\_\_ /year *u*
24. What is the general condition of the chlorination facilities?  
 (✓) good ( ) fair ( ) poor
25. What are the most common problems that the operator has had with the chlorination process? *Must meet high level criteria*  
*Very difficult to maintain fecal & TSS limits. Residuals are adequate so feed system works okay.*

*NS*

## RESIDUALS TREATMENT

### Chemical Conditioning

1. What is the actual volume of residuals conditioned?  
\_\_\_\_\_ gallons/day average
2. What is the design residuals volume?  
\_\_\_\_\_ gallons/day average
3. What type of residuals are conditioned? ( ) primary ( ) waste  
activated ( ) other \_\_\_\_\_
4. What type of chemical is used for conditioning? ( ) lime ( ) ferric  
chloride ( ) polymer ( ) other \_\_\_\_\_
5. What is the chemical dosage? \_\_\_\_\_ lbs/ton dry solids average
6. How are chemicals purchased? ( ) dry ( ) liquid
7. What chemical storage volume is provided? \_\_\_\_\_ days
8. How are the chemicals fed? ( ) automatically ( ) manually
9. If dry feeders are used, what type of feeder is used? ( ) volumetric  
( ) gravimetric ( ) not applicable
10. Are chemical feeders automatically paced? ( ) yes ( ) no
11. If lime is used, how is the lime purchased? ( ) bags ( ) bulk  
( ) not applicable
12. If lime feeding is used, is a vapor and dust collection system  
installed? ( ) yes ( ) no ( ) not applicable
13. Does the unit show signs of inadequate mixing? ( ) yes ( ) no
14. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
15. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
16. What is the general condition of the residuals chemical conditioning  
facilities? ( ) good ( ) fair ( ) poor
17. What are the most common problems that the operator has had with the  
residuals chemical conditioning facilities? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## RESIDUALS TREATMENT

### Gravity Thickening

1. How many gravity thickeners are there? \_\_\_\_\_
2. What is the design influent flow to each thickener?  
\_\_\_\_\_ gallons/day average
3. What is the actual influent flow to the thickener?  
\_\_\_\_\_ gallons/day average
4. What type of residuals are fed to the thickener? ☐ primary  
☐ waste activated ☐ other \_\_\_\_\_
5. What are the dimensions of the thickener(s)? \_\_\_\_\_
6. How much thickened residuals are pumped? \_\_\_\_\_ gallons/day average
7. What is the solids concentration in the influent residuals? \_\_\_\_\_ %
8. What is the solids loading rate? \_\_\_\_\_ lbs/day/sq ft
9. What is the solids concentration in the thickened residuals? \_\_\_\_\_ %
10. What is the settleable solids concentration in the supernatant?  
\_\_\_\_\_ mg/l
11. How are the influent residuals fed? ☐ intermittently  
☐ continuously
12. How are the thickened residuals pumped? ☐ manually  
☐ automatically
13. How often do the thickened residuals pumps run? \_\_\_\_\_  
minutes/hour
14. How much downtime is there? \_\_\_\_\_ days/year
15. What is the frequency of cleaning? \_\_\_\_\_ /year
16. Does the influent baffle system accomplish its purpose?  
☐ yes ☐ no
17. Does the residuals collection system show any signs of mechanical failure? ☐ yes ☐ no
18. Does the tank surface indicate improper residuals withdrawal (i.e., excessive floating solids, gas, etc.)? ☐ yes ☐ no
19. Does the effluent baffle system accomplish its purpose?  
☐ yes ☐ no

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20. Are the effluent weirs level? ☐ yes ☐ no
21. Are surfaces and the effluent weirs clean? ☐ yes ☐ no
22. If multiple units are used, is the flow distributed evenly?  
☐ yes ☐ no ☐ not applicable
23. Does the unit show signs of short circuiting and/or overloads?  
☐ yes ☐ no
24. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
25. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
26. What is the general condition of the gravity thickening facilities?  
☐ good ☐ fair ☐ poor
27. What are the most common problems that the operator has had with the gravity thickening facilities?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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## RESIDUALS TREATMENT

### Flotation Thickening

1. How many air flotation thickening units are there? \_\_\_\_\_
2. What is the design influent flow to each thickener?  
\_\_\_\_\_ gallons/day average
3. What is the actual influent flow to each thickener?  
\_\_\_\_\_ gallons/day average
4. What are the dimensions of the thickener(s)? \_\_\_\_\_
5. What shape are the flotation tanks? ☐ circular ☐ rectangular
6. What type of residuals are fed to the thickener? ☐ waste activated  
☐ other \_\_\_\_\_
7. What is the volume of thickened residuals pumped?  
\_\_\_\_\_ gallons/day
8. What is the solids concentration in the influent residuals? \_\_\_\_\_ %
9. What is the solids loading rate? \_\_\_\_\_ lb/hour/sq ft
10. What is the air solids ratio? \_\_\_\_\_
11. What is the hydraulic loading or overflow rate? \_\_\_\_\_ gpm/sq ft
12. What is the solids concentration in the thickened residuals? \_\_\_\_\_ %
13. What is the suspended solids concentration in the supernatant? \_\_\_\_\_ mg/l
14. What is the solids removal efficiency? \_\_\_\_\_ %
15. Are flotation aids used? ☐ yes ☐ no  
If yes, what type? \_\_\_\_\_
16. What is the average dosage of flotation aid? \_\_\_\_\_ lbs/ton dry solids
17. What is the thickness of the floating residuals blanket? \_\_\_\_\_ inches
18. How are influent residuals fed? ☐ intermittently ☐ continuously
19. What is the effluent recycle ratio as a percentage of the influent flow? \_\_\_\_\_
20. Are primary and secondary effluent readily available for auxiliary recycle? ☐ yes ☐ no

*MB*

21. How are thickened residuals pumped? ☐ manually ☐ automatically
22. How often do thickened residuals pumps run? \_\_\_\_\_ minutes/hour
23. How much downtime is there? \_\_\_\_\_ days/year
24. What is the frequency of cleaning? \_\_\_\_\_ /year
25. Does the influent baffle system accomplish its purpose?  
☐ yes ☐ no
26. Do the residuals collection systems show any signs of mechanical failure? ☐ yes ☐ no
27. Does the effluent baffle system accomplish its purpose?  
☐ yes ☐ no
28. Are the effluent weirs level? ☐ yes ☐ no
29. Are surfaces and the effluent weirs clean? ☐ yes ☐ no
30. If multiple units are used, is the flow distributed evenly?  
☐ yes ☐ no ☐ not applicable
31. Does the unit show signs of short circuiting and/or overloads?  
☐ yes ☐ no
32. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
33. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
34. What is the general condition of the flotation thickening facilities?  
☐ good ☐ fair ☐ poor
35. What are the most common problems that the operator has had with the flotation thickening facilities?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11A

## RESIDUALS TREATMENT

### Thermal Treatment

1. How many thermal treatment units are there? \_\_\_\_\_
2. What is the design residuals flow? \_\_\_\_\_ gpm  
What is the design temperature? \_\_\_\_\_ °F  
What is the design pressure? \_\_\_\_\_ lbs/sq in
3. What is the influent residuals flow? \_\_\_\_\_ gpm  
What is the operating temperature? \_\_\_\_\_ °F  
What is the operating pressure? \_\_\_\_\_ lb/sq in
4. What is the influent residuals solids concentration? \_\_\_\_\_ %
5. What is the volume of the treated residuals? \_\_\_\_\_ gal/day
6. What is the recycle liquor flow? \_\_\_\_\_ gal/day
7. What is the solids concentration of the treated residuals? \_\_\_\_\_ %
8. What is the BOD of the recycle liquor? \_\_\_\_\_ mg/l
9. What is the COD of the recycle liquor? \_\_\_\_\_ mg/l
10. What is the suspended solids concentration of the recycle liquor?  
\_\_\_\_\_ mg/l
11. How is the recycle or decant liquor treated? \_\_\_\_\_
12. Does treatment of the recycle liquor upset the plant?  
( ) yes ( ) no
13. How are the off-gases handled? \_\_\_\_\_
14. Are excessive odors present from off-gases? ( ) yes ( ) no
15. How frequently is the system operated? \_\_\_\_\_ /day  
How long is the system operated each time? \_\_\_\_\_ hours
16. How frequently is the system acid washed? \_\_\_\_\_ /year
17. What is the frequency of scale build-up inspections for the following items?  
heat exchanger \_\_\_\_\_ /year  
reactor \_\_\_\_\_ /year  
piping \_\_\_\_\_ /year  
oxidized residuals decant tank \_\_\_\_\_ /year  
other \_\_\_\_\_ /year

14A

18. What is the frequency of system pressure checks to insure the integrity of pressure piping and fittings? \_\_\_\_\_ /year
19. If multiple units are used, is the flow distributed evenly?  
( ) yes ( ) no ( ) not applicable
20. Does the unit show signs of overload? ( ) yes ( ) no
21. Does the method of stabilization comply with either the Process to Further Reduce Pathogens (PFRP) or the Process to Significantly Reduce Pathogens (PSRP) as described in Title 40 Code of Federal Regulation's Part 257? ( ) yes ( ) no

If yes, which one? ( ) PFRP ( ) PSRP

If no, explain. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. What is the downtime of the thermal treatment units? \_\_\_\_\_
23. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
24. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
25. What is the general condition of the thermal treatment units?  
( ) good ( ) fair ( ) poor
26. What are the most common problems that the operator has had with the thermal treatment units? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



MA

## RESIDUALS TREATMENT

### Anaerobic Stabilization

1. How many anaerobic digesters are there? \_\_\_\_\_
2. What is the design influent flow to each digester?  
\_\_\_\_\_ gallons/day average
3. What is the actual influent flow to each digester?  
\_\_\_\_\_ gallons/day average
4. What type of digester is used? ( ) high rate ( ) low rate  
( ) primary tank ( ) primary and secondary tank
5. What type of residuals are digested? ( ) primary  
( ) waste activated ( ) other
6. What type of covers are used? ( ) fixed ( ) floating ( ) none
7. What is the volume of the digester? \_\_\_\_\_ cubic feet
8. What is the influent solids concentration? \_\_\_\_\_ %
9. What is the volatile solids content of the influent residuals?  
\_\_\_\_\_ %
10. What is the design volatile solids loading?  
\_\_\_\_\_ lb/cu ft/day
11. How frequently do the residuals feed pumps run? \_\_\_\_\_
12. What is the duration of each run? \_\_\_\_\_
13. What is the depth of the scum blanket? \_\_\_\_\_ feet
14. What is the depth of the sand and grit layer? \_\_\_\_\_ feet
15. What is the active capacity of the digester? \_\_\_\_\_ cubic feet
16. What is the actual volatile solids loading? \_\_\_\_\_ lb/cu ft/day
17. What is the hydraulic loading? \_\_\_\_\_ days
18. What is the gas production rate? \_\_\_\_\_ cu ft/lb VS destroyed
19. What is the average CO<sub>2</sub> content of the gas? \_\_\_\_\_ %
20. What is the average CH<sub>4</sub> (methane) content of the gas? \_\_\_\_\_ %
21. What is the average reduction in volatile solids? \_\_\_\_\_ %

- MP
22. What type of mixing is used in the primary tank? \_\_\_\_\_
  23. What provisions are made for heating? \_\_\_\_\_
  24. What is the solids concentration of the residuals withdrawn from the digester? \_\_\_\_\_ %
  25. What is the average pH of the digester? \_\_\_\_\_
  26. What is the average temperature? \_\_\_\_\_ °F
  27. What is the average alkalinity? \_\_\_\_\_ mg/l
  28. What is the average volatile acids content? \_\_\_\_\_ mg/l
  29. At what point in the plant is the supernatant returned? \_\_\_\_\_
  30. Is the supernatant treated before it is return to the plant?  
( ) yes ( ) no
  31. Are there metering provisions for return of the supernatant?  
( ) yes ( ) no
  32. What is the average return flow rate of the supernatant?  
\_\_\_\_\_ gal/day
  33. What is the average BOD of the supernatant? \_\_\_\_\_ mg/l
  34. What is the average suspended solids content of the supernatant?  
\_\_\_\_\_ mg/l
  35. Are the floating covers tilting? ( ) yes ( ) no
  36. Is gas production adequate? ( ) yes ( ) no
  37. Is the gas burner burning? ( ) yes ( ) no
  38. Is the supernatant exuding a sour odor from either the primary or the secondary digesters? ( ) yes ( ) no
  39. How frequently is the tank cleaned? \_\_\_\_\_
  40. Does the method of stabilization comply with either the Process to Further Reduce Pathogens (PFRP) or the Process to Significantly Reduce Pathogens (PSRP) as described in Title 40 Code of Federal Regulation's Part 257? ( ) yes ( ) no

If yes, which one? ( ) PFRP ( ) PSRP

If no, explain. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NA

41. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
42. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
43. What is the general condition of the anaerobic digesters?  
( ) good ( ) fair ( ) poor
44. What are the most common problems that the operator has had with the  
anaerobic digesters? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## RESIDUALS TREATMENT

### Aerobic Stabilization

1. How many aerobic digesters are there? 10 @ 20000 gals
2. What is the design influent flow to each digester?  
\_\_\_\_\_ gallons/day average
3. What is the actual influent flow to each digester?  
\_\_\_\_\_ gallons/day average
4. What are the dimensions of each unit? 20,000 gals
5. How many units are presently operating? 1
6. What type of residuals are treated in the aerobic digester?  
☒ waste activated ☐ primary ☐ primary and waste activated  
☐ other \_\_\_\_\_
7. How often are residuals applied to the digester? weekly or more based on plant process control
8. What is the total duration of influent pumping? ? hours/day
9. How are influent residuals pumped? ☒ manually ☐ automatically
10. What is the solids concentration in the influent residuals? ? %
11. What is the solids concentration in the aerobic digesters? ? %
12. What type of aeration equipment is used? ☒ diffused air  
☐ mechanical mixers ☐ combination ☐ other \_\_\_\_\_
13. If diffused aeration is used, do air diffusers require frequent cleaning? ☐ yes ☒ no ☐ not applicable
14. What type of aerobic digesters are used? ☒ open ☐ closed
15. What type of aeration is provided? ☒ conventional ☐ pure oxygen  
series
16. What is the residuals retention time? \_\_\_\_\_ days see hauling in Attachment II
17. What is the volatile suspend solids (VSS) loading?  
1 lb VSS/cu ft/day
18. What type of feed system is used? ☐ continuous ☒ batch
19. What is the solids concentration of the residuals following settling?  
1.0 %
20. How much waste residuals are pumped? ? gallons/day

- Varies*
21. How often do waste residuals pumps run? \_\_\_\_\_ minutes/hour
  22. How are residuals wasted? (☒) manually (☐) automatically
  23. What volume of residuals are recycled back to the aerobic digester?  
\_\_\_\_\_ gallons/day average
  24. What percentage of the influent residuals flow is the recycle residuals flow? \_\_\_\_\_ %
  25. Are the contents of the tanks well mixed and relatively free of odors?  
(☒) yes (☐) no
  26. Is there a foaming problem? (☐) yes (☒) no
  27. What is the dissolved oxygen (DO) concentration in the aerobic digestion units? \_\_\_\_\_ mg/l
  28. Are there provisions for pH adjustment by the addition of lime, sodium hydroxide, or sodium bicarbonate? (☐) yes (☒) no *TO RMF*
  29. What is the volume of supernatant flow? \_\_\_\_\_ gallons/day average
  30. What is the BOD of the supernatant flow? \_\_\_\_\_ mg/l
  31. What is the suspended solids concentration of the supernatant?  
\_\_\_\_\_ mg/l
  32. What is the nitrate nitrogen concentration of supernatant?  
\_\_\_\_\_ mg/l
  33. What is the ammonia nitrogen concentration of the supernatant?  
\_\_\_\_\_ mg/l
  34. Is there excessive foaming in the tank? (☐) yes (☒) no
  35. Are there objectionable odors in the aerobically digested residuals?  
(☐) yes (☒) no
  36. Is the digester overloaded? (☐) yes (☒) no
  37. Is there clogging of diffusers in the digester?  
(☐) yes (☒) no (☐) not applicable
  38. What is the depth of the sand and grit layer? *??* feet
  39. What is the active capacity of the digester? *20000* / *7.48* cubic feet
  40. Is there adequate supernatant removal? (☒) yes (☐) no
  41. If multiple units are used, is the flow distributed evenly?  
(☐) yes (☐) no (☒) not applicable

*Pump Digester  
Frequently  
(see Attachment  
II)*

42. Does the unit show signs of short circuiting and/or overloads?  
( ) yes (x) no

43. Does the method of stabilization comply with either the Process to Further Reduce Pathogens (PFRP) or the Process to Significantly Reduce Pathogens (PSRP) as described in Title 40 Code of Federal Regulation's Part 257? ( ) yes ( ) no

If yes, which one? ( ) PFRP ( ) PSRP

If no, explain. JO RMF

44. What is the frequency of routine inspections for proper operation?  
per up coverage  
/day

45. What is the frequency of maintenance inspections by plant personnel?  
/year

46. What is the general condition of the aerobic digesters?  
(x) good ( ) fair ( ) poor

47. What are the most common problems that the operator has had with the aerobic digesters? None noted

NA

## RESIDUALS TREATMENT

### Centrifugation

1. How many centrifuges are there? \_\_\_\_\_
2. What is the design influent flow to each centrifuge?  
\_\_\_\_\_ gallons/minute
3. What is the actual influent flow to each centrifuge?  
\_\_\_\_\_ gallons/minute
4. How much cake is produced? \_\_\_\_\_ lb/day
5. What is the solids concentration of the influent residuals? \_\_\_\_\_ %
6. What type of centrifuges are used? ( ) solid bowl ( ) disc  
( ) basket ( ) other \_\_\_\_\_
7. What is the solids recovery? \_\_\_\_\_ %
8. What is the solids concentration in the discharge cake? \_\_\_\_\_ %
9. How are the centrifuges, conveyers, and residuals feed pumping facilities operated? ( ) manually ( ) automatically
10. How often does each centrifuge operate? \_\_\_\_\_ /hour  
How long does each centrifuge operate each run? \_\_\_\_\_ minutes
11. Are metering provisions available for the return of the centrate?  
( ) yes ( ) no
12. Are there excessive solids in the fluid phase after centrifugation?  
( ) yes ( ) no
13. Is the centrifugation residuals cake adequately dry? ( ) yes ( ) no
14. If multiple units are used is the influent flow distributed evenly?  
( ) yes ( ) no
15. For multiple units are there provisions for equalization of the centrate flow? ( ) yes ( ) no
16. What type of conditioning chemicals are used? ( ) lime ( ) alum  
( ) ferric chloride ( ) other \_\_\_\_\_
17. What amounts of chemicals are fed? \_\_\_\_\_ lbs/day
18. How often are chemicals fed? \_\_\_\_\_ cycles/hour  
What is the feed time per cycle? \_\_\_\_\_ minutes/cycle

MA

19. Does the unit show signs of overloading? ( ) yes ( ) no
20. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
21. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
22. What is the general condition of the centrifuges?  
( ) good ( ) fair ( ) poor
23. What are the most common problems that the operator has had with the centrifuges?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



MA

## RESIDUALS TREATMENT

### Vacuum Filtration

1. How many vacuum filters are there? \_\_\_\_\_
2. What is the design influent flow to each filter?  
\_\_\_\_\_ gallons/minute
3. What is the actual influent flow to each filter?  
\_\_\_\_\_ gallons/minute
4. What is the percent solids of the influent residuals? \_\_\_\_\_ %
5. What is the effective area of each vacuum filter? \_\_\_\_\_ sq ft
6. What is the design loading rate? \_\_\_\_\_ lb/sq ft/hr
7. What is the percent solids in the discharge cake? \_\_\_\_\_ %
8. Are there settleable solids in the filtrate? ( ) yes ( ) no  
If yes, what is the solids concentration? \_\_\_\_\_ mg/l
9. How often does each vacuum filter run? \_\_\_\_\_ /hour  
How long does each vacuum filter operate each run? \_\_\_\_\_ minutes
10. What type of conditioning chemicals are used? ( ) lime ( ) alum  
( ) ferric chloride ( ) other \_\_\_\_\_
11. What amount of chemicals are fed? \_\_\_\_\_ lbs/day
12. How are residuals pumped? ( ) manually ( ) automatically
13. How are chemicals fed? ( ) manually ( ) automatically
14. How often do residuals pumps run? \_\_\_\_\_ /hour  
How long do residuals pumps run each cycle? \_\_\_\_\_ minutes
15. How often does conditioning equipment run? \_\_\_\_\_ /hour  
How long does conditioning equipment run each cycle?  
\_\_\_\_\_ minutes
16. If multiple units are used, is the flow distributed evenly?  
( ) yes ( ) no
17. Does the unit show signs of short circuiting and/or overloads?  
( ) yes ( ) no

1A

18. Is there a high level of solids in the filtrate? ( ) yes ( ) no
19. Is the filter cake thin? ( ) yes ( ) no
20. Is the filter cloth binding? ( ) yes ( ) no
21. Is there a low vacuum on the filter? ( ) yes ( ) no
22. Is the vacuum filter media cleaned properly? ( ) yes ( ) no
23. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
24. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
25. What is the general condition of the vacuum filters?  
( ) good ( ) fair ( ) poor
26. What are the most common problems that the operator has had with the vacuum filters?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

MA

## RESIDUALS TREATMENT

### Pressure Filtration

1. How many pressure filters are there? \_\_\_\_\_
2. What is the design influent flow to each filter?  
\_\_\_\_\_ gallons/minute
3. What is the actual influent flow to each filter?  
\_\_\_\_\_ gallons/minute
4. What is the percent solids of the influent residuals? \_\_\_\_\_ %
5. What is the filter press volume? \_\_\_\_\_ cubic feet
6. What is the percent solids in the discharge cake? \_\_\_\_\_ %
7. Are there settleable solids in the filtrate? ☐ yes ☐ no  
If yes, what is the solids concentration? \_\_\_\_\_ mg/l
8. How often does each pressure filter run? \_\_\_\_\_ /hr  
How long does each pressure filter operate each run? \_\_\_\_\_ minutes
9. If acid washing is provided, is a recirculating system included?  
☐ yes ☐ no ☐ not applicable
10. What type of conditioning chemicals are used? ☐ lime ☐ alum  
☐ ferric chloride ☐ other \_\_\_\_\_
11. What amount of conditioning chemicals are pumped? \_\_\_\_\_ lb/day
12. How are residuals pumped? ☐ manually ☐ automatically
13. How are chemicals fed? ☐ manually ☐ automatically
14. How often do residuals pumps run? \_\_\_\_\_ /hour  
How long do residuals pumps run each cycle? \_\_\_\_\_ minutes
15. How often does conditioning equipment run? \_\_\_\_\_ /hour  
How long does conditioning equipment run each cycle? \_\_\_\_\_ minutes
16. If multiple units are used, is the flow distributed evenly?  
☐ yes ☐ no ☐ not applicable
17. Does the unit show signs of short circuiting and/or overloads?  
☐ yes ☐ no
18. Is there a high level of solids in the filtrate? ☐ yes ☐ no

*HA*

19. Is the filter cake thin? ( ) yes ( ) no
20. Is there a residuals build-up on the belts and/or rollers of the filter press? ( ) yes ( ) no
21. Is there excessive moisture in the belt filter press residuals cake? ( ) yes ( ) no
22. Is there difficult cake discharge from the filter presses? ( ) yes ( ) no
23. Does the filter cake stick to the solids-conveying equipment of the filter press? ( ) yes ( ) no
24. Is there frequent media binding of the filter press? ( ) yes ( ) no
25. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
26. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
27. What is the general condition of the pressure filters?  
( ) good ( ) fair ( ) poor
28. What are the most common problems that the operator has had with the pressure filters?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

MA

## RESIDUALS TREATMENT

### Drying Beds

1. How many drying beds are there? \_\_\_\_\_
2. What is the design flow to each bed? \_\_\_\_\_ gallons/day average
3. What is the actual flow to each bed? \_\_\_\_\_ gallons/day average
4. What are the dimensions of the drying beds? \_\_\_\_\_
5. Are the residuals digested before they are applied to the drying bed?  
( ) yes ( ) no
6. What types of residuals are applied to the drying beds?  
( ) digested primary ( ) waste activated ( ) other \_\_\_\_\_
7. What is the solids concentration of the residuals applied to the drying beds? \_\_\_\_\_ %
8. What is the solids loading rate? \_\_\_\_\_ lbs/yr/sq ft
9. What is the population served by the treatment plant? \_\_\_\_\_
10. What is the drying area provided? \_\_\_\_\_ sq ft/capita
11. What is the solids concentration of the dewatered residuals?  
\_\_\_\_\_ %
12. What is the typical drying time required? \_\_\_\_\_ days
13. Are there problems with flies or other insects? ( ) yes ( ) no
14. Are there problems with weeds? ( ) yes ( ) no
15. Is there an underdrain system? ( ) yes ( ) no
16. Are there provisions for the return of drainage waters to the plant?  
( ) yes ( ) no
17. What is the typical sand depth? \_\_\_\_\_ inches
18. Are there any beds with sand depths less than 3 or 4 inches?  
( ) yes ( ) no
19. Are vehicles and equipment operated on permanent vehicle treadways or on planks or plywood laid on tops of the beds? ( ) yes ( ) no
20. Are splash plates or diffusion devices in place when residuals are applied to the beds? ( ) yes ( ) no

MA

21. Are partitions between and around the bed tight so that residuals will not flow from one compartment to another or outside the beds?  
☐ yes ☐ no
22. Are residuals distributed evenly on the drying beds? ☐ yes ☐ no
23. Are there dry residuals remaining in the drying beds? ☐ yes ☐ no
24. Are all drying beds used? ☐ yes ☐ no
25. Are dry residuals stacked around drying beds where run-off may enter navigable waters? ☐ yes ☐ no
26. Is the drying time excessive? ☐ yes ☐ no
27. Is the filtrate from the drying beds returned to the front of the plant? ☐ yes ☐ no
28. What is the frequency of routine inspections for proper operation?  
\_\_\_\_\_ /day
29. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_ /year
30. What is the general condition of the drying beds?  
☐ good ☐ fair ☐ poor
31. What are the most common problems that the operator has had with the drying beds?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NA

## DISPOSAL SYSTEMS

### Outfalls

1. How many outfalls are there? \_\_\_\_\_
2. What type of receiving waters does the outfall(s) discharge to?  
☐ ocean ☐ estuary ☐ lake ☐ river ☐ other \_\_\_\_\_
3. What is the design capacity of each outfall?  
\_\_\_\_\_ mgd average \_\_\_\_\_ mgd peak
4. What is the present discharge at each outfall?  
\_\_\_\_\_ mgd average \_\_\_\_\_ mgd peak
5. What are the diameter and length of each outfall? \_\_\_\_\_
6. Are the outfall diffusers functioning properly?  
☐ yes ☐ no ☐ not applicable
7. Is the outfall(s) operating so that the discharge limitations specified in the permit are consistently met? ☐ yes ☐ no
8. How does the effluent flow in the outfall? ☐ gravity ☐ pressure  
If the flow is by gravity and if the outfall(s) extends into the receiving waters, is a manhole provided at the shore end of the outfall? ☐ yes ☐ no ☐ not applicable
9. Is adequate corrosion control provided (i.e., pipe coatings, cathodic protection, etc.)? ☐ yes ☐ no
10. For outfalls subject to tidal or high water backup, are flap valves or automatically closing gates functioning properly?  
☐ yes ☐ no ☐ not applicable
11. Does the outfall(s) exhibit signs of scour or undercutting?  
☐ yes ☐ no
12. Is the outfall(s) adequately protected from floodwaters, tides, and other hazards so as to reasonably ensure structural stability and prevent stoppage? ☐ yes ☐ no
13. Can effluent samples be obtained at a point after the final treatment process and before discharge to or mixing with the receiving waters?  
☐ yes ☐ no
14. Are outfall and diffuser pipes routinely inspected for breakage and corrosion? ☐ yes ☐ no
15. What is the frequency of maintenance inspections by plant personnel?  
\_\_\_\_\_/year

NA

16. What is the general condition of the outfall facilities?  
( ) good ( ) fair ( ) poor
17. What are the most common problems that the operator has had with the plant outfall(s)? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



NA

## DISPOSAL SYSTEMS

### Injection Wells

1. What is the name and address of the facility where the injection well(s) is located? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Are additional facilities served by the injection well(s)?  
( ) yes ( ) no  
If yes, what is the name and address of each additional facility?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. How many injection wells are there? \_\_\_\_\_
4. What is the maximum permitted flow to each injection well?  
\_\_\_\_\_ gpm/mgd (circle one)
5. How many days during the last year has the actual maximum flow to the well exceeded the maximum permitted flow? \_\_\_\_\_
6. What was the average daily flow to each well during the last year?  
\_\_\_\_\_ gpm/mgd (circle one)
7. What is the inside diameter of each well? \_\_\_\_\_ inches
8. Is there a fluid-filled annulus? ( ) yes ( ) no  
If yes, what type? ( ) tubing and packer ( ) fluid seal  
( ) other (specify) \_\_\_\_\_
9. What percentage of the total flow to the domestic wastewater treatment plant is from non-domestic sources? \_\_\_\_\_ percent
10. Are there any wastestream sources that bypass the wastewater treatment plant and discharge directly to the wet well? ( ) yes ( ) no  
If yes, what percentage of the total flow to the well do these untreated wastes represent? \_\_\_\_\_ percent
11. Does the fluid in the wet well appear to be free of solids/floatables? ( ) yes ( ) no

MA

12. What instrumentation is found at each well head?  
☐ injection pressure ☐ injection flow  
☐ annulus pressure (fluid-filled annulus)  
☐ annulus temperature (fluid-filled annulus)  
☐ other (specify) \_\_\_\_\_
13. What were the instrument readings during the inspection and the appropriate adjustment factors, if any?
- a. Injection pressure \_\_\_\_\_ psi  
Adjustment factor: \_\_\_\_\_
- b. Injection flow \_\_\_\_\_ gpm/mgd (circle one)  
Adjustment factor: \_\_\_\_\_
- c. Annulus pressure \_\_\_\_\_ psi  
Adjustment factor: \_\_\_\_\_
- d. Other (specify) \_\_\_\_\_ units \_\_\_\_\_  
Adjustment factor: \_\_\_\_\_
14. What is the general condition of the well head instruments?  
☐ good ☐ fair ☐ poor
15. How often are the instruments calibrated? \_\_\_\_\_ /year
16. When were the instruments last calibrated (date)?
- a. Injection pressure \_\_\_\_/\_\_\_\_/\_\_\_\_
- b. Injection flow \_\_\_\_/\_\_\_\_/\_\_\_\_
- c. Annulus pressure \_\_\_\_/\_\_\_\_/\_\_\_\_
- d. Other (specify type) \_\_\_\_/\_\_\_\_/\_\_\_\_ Type: \_\_\_\_\_
17. Is there surge and water hammer control equipment present?  
☐ yes ☐ no
- If yes, what is the general condition of the surge and water hammer control equipment? ☐ good ☐ fair ☐ poor
- If poor, what is the problem? \_\_\_\_\_

18. Has mechanical integrity testing been conducted within the last five years? ( ) yes ( ) no

If yes, complete the following:

a. Pressure test date \_\_\_\_/\_\_\_\_/\_\_\_\_

Test pressure \_\_\_\_\_ psi

Pressure loss \_\_\_\_\_ psi

Test duration \_\_\_\_\_ hours/minute (circle one)

c. Temperature log date \_\_\_\_/\_\_\_\_/\_\_\_\_

Is there any anomalous temperature data?

( ) yes ( ) no

If yes, explain. \_\_\_\_\_

d. Radioactive tracer survey date \_\_\_\_/\_\_\_\_/\_\_\_\_

Was fluid movement indicated? ( ) yes ( ) no

19. What is the predetermined acceptable limits for annulus pressure? \_\_\_\_\_ psi

Is the annulus pressure within the predetermined limits?

( ) yes ( ) no

20. How many monitoring wells are there associated with the injection system? \_\_\_\_\_

21. Where are the monitoring wells located relative to the injection well(s) (distance/direction)? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22. Is each monitoring well functional? ( ) yes ( ) no

If no, what is the problem? \_\_\_\_\_

23. Which zones are the monitoring wells designed to monitor?

Well Number

Monitoring Interval

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

24. What volume of water is purged from each monitoring well prior to sampling? \_\_\_\_\_ gallons

MA

25. How is the purge water disposed of?

- ( ) returned to wet well ( ) returned to head of treatment plant  
 ( ) surface water discharge (may require separate permit)  
 ( ) on well pad or ground (not acceptable)  
 ( ) other (specify) \_\_\_\_\_

26. What chemical parameters are monitored and at what frequency are these parameters monitored?

Parameter	Frequency
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

27. Have any water quality trends been observed in the monitoring data? ( ) yes ( ) no

If yes, which parameters are affected and what trend has been observed (increase/decrease)?

Parameter	Trend Observed
_____	_____
_____	_____
_____	_____

28. What type of monitoring well instrumentation is present?  
 ( ) pressure ( ) water level

29. When was the monitoring well instrumentation last calibrated?  
 \_\_\_\_/\_\_\_\_/\_\_\_\_

30. Does the water level/pressure data show a trend? ( ) yes ( ) no  
 If yes, what is the trend? \_\_\_\_\_

31. Are there any fluid leaks, or evidence of fluid leaks, at the injection or monitoring well heads? ( ) yes ( ) no

32. Do the well heads, valves, and other surface appurtenances appear to be in good working order and well maintained?  
 ( ) yes ( ) no

33. What is the general condition of the injection and monitoring well heads and other surface appurtenances?  
 ( ) good ( ) fair ( ) poor

NA

34. What is the emergency discharge method?  
☐ other well(s) ☐ surface waters ☐ percolation ponds  
☐ other (specify) \_\_\_\_\_
35. Are facilities in place to use the specified emergency discharge method? ☐ yes ☐ no
36. Are the injection and monitoring well heads fenced or otherwise protected from accidental damage by heavy equipment? ☐ yes ☐ no
37. Are plant operators familiar with procedures for emergency shut down of the injection system? ☐ yes ☐ no
38. Is an emergency procedures manual located on-site?  
☐ yes ☐ no

MA

## REUSE SYSTEMS

### Part II Slow Rate Land Application Systems; Restricted Public Access

1. Is at least secondary treatment provided? ☐ yes ☐ no
2. Is at least basic disinfection provided? ☐ yes ☐ no
3. If a subsurface application system is used, does the reclaimed water never exceed 10 mg/l of TSS? ☐ yes ☐ no ☐ not applicable
4. Does the treatment facility have a permitted capacity of at least 0.1 mgd? ☐ yes ☐ no
5. Are ground water monitoring facilities provided and is monitoring regularly performed (normally quarterly)? ☐ yes ☐ no
6. Are background, intermediate, and compliance wells provided and monitored? ☐ yes ☐ no ☐ not applicable
7. Are monitoring wells well marked? ☐ yes ☐ no ☐ not applicable
8. Are monitoring wells operational and well maintained?  
☐ yes ☐ no ☐ not applicable
9. Are there any violations of ground water standards at the compliance wells? ☐ yes ☐ no ☐ not applicable
10. Is there evidence of potential ground water quality problems at the intermediate wells? ☐ yes ☐ no ☐ not applicable
11. Are system storage facilities provided and do they have adequate capacity? ☐ yes ☐ no ☐ not applicable
12. Are the storage facilities lined? ☐ yes ☐ no ☐ not applicable
13. Is there evidence of seepage through the berms?  
☐ yes ☐ no ☐ not applicable
14. Is there evidence of discharge over the tops of the berms, erosion of the berms, or of any illegal discharge devices?  
☐ yes ☐ no ☐ not applicable
15. Are piping, control, and pumping facilities operational and well maintained? ☐ yes ☐ no ☐ not applicable
16. Is there evidence that the storage facilities are used?  
☐ yes ☐ no ☐ not applicable
17. Are the berms well maintained (including vegetation control)?  
☐ yes ☐ no ☐ not applicable

- MA
18. Is a mosquito control program in place?  
☐ yes ☐ no ☐ not applicable
  19. Is there evidence of mosquito problems?  
☐ yes ☐ no ☐ not applicable
  20. Is an emergency overflow structure provided and is it well maintained and usable? ☐ yes ☐ no ☐ not applicable
  21. Are storage facilities enclosed with a fence or other facilities that preclude public access? ☐ yes ☐ no ☐ not applicable
  22. Are any features provided that enable reduction in setback distances?  
☐ yes ☐ no  
If yes, specify:  
☐ High-level disinfection  
☐ Class I reliability  
☐ Subsurface application systems  
☐ Continuous vegetated barrier at least 5 feet high  
☐ Low trajectory, low pressure nozzles or surface application
  23. Are adequate setback distances provided from the wetted area to the property lines or buildings? ☐ yes ☐ no ☐ not applicable
  24. Are adequate setback distances provided to potable water supply wells, Class I waters, and Class II waters?  
☐ yes ☐ no ☐ not applicable
  25. Is the wetted area at least 100 feet from outdoor public eating, drinking, and bathing facilities? ☐ yes ☐ no ☐ not applicable
  26. Are transmission facilities located at least 100 feet from public water supply wells? ☐ yes ☐ no ☐ not applicable
  27. Is there evidence of hydraulic problems such as ponding or run-off from the site? ☐ yes ☐ no ☐ not applicable
  28. Is public access adequately restricted by fencing or posting of advisory signs? ☐ yes ☐ no ☐ not applicable
  29. Are distribution piping, pumping, and other appurtenances well maintained and operational? ☐ yes ☐ no ☐ not applicable
  30. Is there evidence of clogging of nozzles or other facilities?  
☐ yes ☐ no ☐ not applicable
  31. Is there evidence of or public complaints about aerosol drift off of the site, odors, or other nuisance conditions?  
☐ yes ☐ no ☐ not applicable

MA

32. Are the distribution facilities labeled?  
☐ yes ☐ no ☐ not applicable
33. Are above ground hose bibbs present?  
☐ yes ☐ no ☐ not applicable
34. Are supplemental fertilizers or residuals applied to the site?  
☐ yes ☐ no ☐ not applicable
35. If fertilizers or residuals are applied, are they applied in moderate amounts such that the nutrient needs of the crops are not exceeded?  
☐ yes ☐ no ☐ not applicable
36. Is there evidence that fertilizer or residuals application results in ground water quality problems (nitrogen is main concern)?  
☐ yes ☐ no ☐ not applicable
37. What crops are grown? \_\_\_\_\_
38. Are the crops routinely harvested and removed from the site?  
☐ yes ☐ no ☐ not applicable
39. Are underdrains or perimeter drainage features provided?  
☐ yes ☐ no ☐ not applicable
- If yes, specify:
- ☐ Underdrains  
☐ Perimeter drains
40. Does the water collected in underdrains or perimeter drainage features meet appropriate effluent limits? ☐ yes ☐ no ☐ not applicable
41. What is the average annual hydraulic loading rate (based on the total wetted area)? \_\_\_\_\_ inches/week
42. Are cattle allowed to graze on the site? ☐ yes ☐ no
- If yes, what type?
- ☐ Beef cattle  
☐ Dairy cattle  
☐ Others \_\_\_\_\_
43. If dairy cattle graze on the site, are they kept off the site for at least 15 days after application of reclaimed water?  
☐ yes ☐ no ☐ not applicable
44. If edible food crops are grown, please complete the checklists for Part III reuse systems and for edible crop irrigation.



MA

REUSE

Part III Slow Rate Land Application Systems; Public Access; Residential Irrigation; and Edible Crops

1. Is at least secondary treatment provided? ☐ yes ☐ no
2. Is high-level disinfection provided? ☐ yes ☐ no
3. Do the treatment facilities have permitted capacities in excess of the minimum system size requirements (0.1 mgd for public access systems, 0.5 mgd for residential irrigation, 0.5 mgd for edible crop irrigation)? ☐ yes ☐ no
4. Is there a DER-approved cross-connection control program covering the areas served by reclaimed water? ☐ yes ☐ no
5. Is there a uniform system for color coding and/or marking reclaimed water pipes? ☐ yes ☐ no
6. Does the utility inspect all new connections to the reclaimed water system? ☐ yes ☐ no
7. Does the utility provide routine inspections of existing connections to the reclaimed water system? ☐ yes ☐ no
8. Is an approved industrial pretreatment program in-place?  
☐ yes ☐ no ☐ not needed
9. Is the industrial pretreatment program enforced? ☐ yes ☐ no
10. Is there a DER-approved operating protocol on-site and available to the operators? ☐ yes ☐ no ☐ not needed
11. Has the operating protocol been updated and approved annually?  
☐ yes ☐ no
12. What set points are contained in the operating protocol for the following items?

Turbidity: \_\_\_\_\_ NTU

Chlorine Residual: \_\_\_\_\_ mg/l

Other Parameter (specify): Parameter: \_\_\_\_\_

Limit: \_\_\_\_\_ mg/l

13. Are the operators familiar with the operating protocol?  
☐ yes ☐ no

MD

14. Does the operator use the operating protocol to control the facility and to make judgments on the quality of the reclaimed water being produced? ☐ yes ☐ no
15. Is the 5.0 mg/l TSS limit met at all times for reclaimed water sent to the reuse system? ☐ yes ☐ no
16. Are the high-level disinfection criteria for fecal coliforms met at all times for reclaimed water sent to the reuse system? ☐ yes ☐ no
17. Have the operators simulate a case where turbidity or chlorine residuals violate the limits set in the operating protocol. Is the reclaimed water of "unacceptable quality" diverted to the reject storage system or permitted alternative discharge system? ☐ yes ☐ no
18. Are continuous monitoring devices provided for measuring turbidity (after filter/before chlorination) and chlorine residual (after contact chamber)? ☐ yes ☐ no
19. Are these instruments in good repair and used in the operation and control of the facilities? ☐ yes ☐ no
20. Are the filters in operation and in good repair? ☐ yes ☐ no
21. Are chemical feed facilities provided? ☐ yes ☐ no
22. What chemicals can be added? \_\_\_\_\_
23. Are the chemical feed facilities in operation and in good repair? ☐ yes ☐ no
24. Can the high-level disinfection criteria be met without chemical addition? ☐ yes ☐ no
25. Is the reclaimed water flowing out of the filters and chlorination system very clear? ☐ yes ☐ no
26. Is the turbidity measurement being reported consistent with the appearance of the reclaimed water? ☐ yes ☐ no
27. Are system storage facilities provided to store reclaimed water of acceptable quality? ☐ yes ☐ no
28. Are system storage facilities used? ☐ yes ☐ no
29. Are system storage facilities well maintained and fully operational? ☐ yes ☐ no

- MA
30. Are system storage facilities (including golf course lakes) used for temporary storage (as opposed to being used as "percolation ponds" with no effort to pump out of them for irrigation purposes)?  
( ) yes ( ) no
  31. Are lined reject storage facilities provided to store reclaimed water of unacceptable quality? ( ) yes ( ) no
  32. Is there evidence that reject storage facilities are used?  
( ) yes ( ) no
  33. Is the reject storage system well maintained and fully operational?  
( ) yes ( ) no
  34. If automatic control and diversion are provided, are the systems operational, well maintained, and used?  
( ) yes ( ) no ( ) not applicable
  35. Is reclaimed water released to the system storage and reuse system only during periods when an operator is present?  
( ) yes ( ) no ( ) not applicable (other reliability measures provided)
  36. Is stored reject water returned to the treatment facilities for additional treatment and disinfection?  
( ) yes ( ) no ( ) not applicable
  37. Are the facilities for return of reject water to the treatment facilities well maintained, operational, and in use?  
( ) yes ( ) no ( ) not applicable
  38. Are reclaimed water pipes and appurtenances appropriately marked and color coded? ( ) yes ( ) no
  39. Are advisory signs posted alerting the public that reclaimed water is being used? ( ) yes ( ) no
  40. Are there illegal surface water discharge points? ( ) yes ( ) no
  41. Is there evidence of abuse of the system, such as significant run-off off-site, or severe ponding? ( ) yes ( ) no
  42. Are low trajectory nozzles used within 100 feet of outdoor public eating, drinking, or bathing facilities? ( ) yes ( ) no
  43. Is reclaimed water applied within 75 feet of potable water supply wells? ( ) yes ( ) no
  44. Are distribution systems and pumps operational and well maintained?  
( ) yes ( ) no
  45. Are ground water monitoring facilities provided and is monitoring regularly performed (normally quarterly)? ( ) yes ( ) no

MA

- 46. Are background, intermediate, and compliance wells provided and monitored? ( ) yes ( ) no ( ) not applicable
- 47. Are monitoring wells well marked? ( ) yes ( ) no ( ) not applicable
- 48. Are monitoring wells operational and well maintained?  
( ) yes ( ) no ( ) not applicable
- 49. Are there any violations of ground water standards at the compliance wells? ( ) yes ( ) no ( ) not applicable
- 50. Is there evidence of potential ground water quality problems at the intermediate wells? ( ) yes ( ) no ( ) not applicable
- 51. Are above ground hose bibbs present on reclaimed water lines?  
( ) yes ( ) no ( ) not applicable
- 52. Is there evidence of or public complaints about aerosol drift, odors, or other nuisance conditions? ( ) yes ( ) no ( ) not applicable

NA

REUSE

Part III Slow Rate Land Application Systems; Edible Crops

1. Does the treatment facility have a permitted capacity of at least 0.5 mgd? ( ) yes ( ) no

Note: The minimum system size is reduced to 0.1 mgd if the following conditions are met:

- a. A direct contact method of irrigation is not used.
- b. The crop produced is processed before human consumption.
- c. Public access to the site is restricted.

2. What edible crops are grown? \_\_\_\_\_
3. What edible crops are commercially processed (thermal processing) before being sent to commercial markets? \_\_\_\_\_
4. List the edible crops produced that are **always** peeled, skinned, or cooked by consumers? \_\_\_\_\_
5. What types of application methods are used when irrigating with reclaimed water? \_\_\_\_\_
6. Does the DER permit accurately describe the crops grown, processing provided, and application methods?  
( ) yes ( ) no ( ) not applicable
7. Is a direct contact method (spray irrigation) used on crops that are not peeled, skinned, cooked, or thermally processed before human consumption (does not include irrigation of citrus or tobacco)?  
( ) yes ( ) no ( ) not applicable
8. Is public access to the site restricted by fencing or by posting of advisory signs? ( ) yes ( ) no ( ) not applicable
9. Are the farm workers aware of the fact that reclaimed water is being used for irrigation? ( ) yes ( ) no ( ) not applicable

REUSE

Part IV Rapid Rate Land Application Systems

1. Is at least secondary treatment provided? ☒ yes ( ) no
2. Is at least basic disinfection provided? ☒ yes ( ) no
3. Does the reclaimed water never exceed 12 mg/l of nitrate (as N)?  
( ) yes ( ) no ( ) not applicable *see omPR*
4. Does the treatment facility have a permitted capacity of at least 0.1 mgd? ☒ yes ( ) no
5. Are ground water monitoring facilities provided and is monitoring regularly performed (normally quarterly)? ☒ yes ( ) no
6. Are background, ~~intermediate~~, and compliance wells provided and monitored? ☒ yes ( ) no ( ) not applicable
7. Are monitoring wells well marked? ☒ yes ( ) no ( ) not applicable
8. Are monitoring wells operational and well maintained?  
☒ yes ( ) no ( ) not applicable *need to be locked - called group and they returned & locked*
9. Are there any violations of ground water standards at the compliance wells? ☒ yes ( ) no ( ) not applicable  
*see omPR - Attachment II*
10. Is there evidence of potential ground water quality problems at the intermediate wells? ( ) yes ( ) no ☒ not applicable
11. Are system storage facilities provided and do they have adequate capacity? ( ) yes ( ) no ☒ not applicable
12. Are the storage facilities lined? ( ) yes ( ) no ☒ not applicable
13. Is there evidence of seepage through the berms?  
( ) yes ( ) no ☒ not applicable
14. Is there evidence of discharge over the tops of the berms, erosion of the berms, or of any illegal discharge devices?  
( ) yes ( ) no ☒ not applicable
15. Are piping, control, and pumping facilities operational and well maintained? ( ) yes ( ) no ☒ not applicable
16. Is there evidence that the storage facilities are used?  
( ) yes ( ) no ☒ not applicable
17. Are the berms well maintained (including vegetation control)?  
( ) yes ( ) no ☒ not applicable

18. Is a mosquito control program in place?  
☐ yes ☐ no ☒ not applicable
19. Is there evidence of mosquito problems?  
☐ yes ☐ no ☒ not applicable
20. Is an emergency overflow structure provided and is it well maintained and usable? ☐ yes ☐ no ☒ not applicable
21. Are storage facilities enclosed with a fence or other facilities that preclude public access? ☐ yes ☐ no ☒ not applicable
22. Are any features provided that enable reduction in setback distances?  
☒ yes ☒ no ~~to not A~~

If yes, specify:

- ☒ High-level disinfection  
☒ ~~Class III reliability only~~ Class III reliability??  
☐ Site adjacent to a right-of-way

no duplication of CCC

23. Are adequate setback distances provided from the wetted area to the property lines or buildings? ☐ yes ☒ no ☐ not applicable
24. Are adequate setback distances provided to potable water supply wells, Class I waters, and Class II waters? ☐ yes ☐ no ☐ not applicable  
*Ditch near ponds. was maybe private well? but ditch divides areas*
25. Are transmission facilities located at least 100 feet from public water supply wells? ☒ yes ☐ no ☐ not applicable
26. Is there evidence of a reduction in infiltration rates over the last permit period? ☐ yes ☒ no
27. Is there evidence of hydraulic problems such as ponding or run-off from the site? ☐ yes ☒ no ☐ not applicable
28. Is public access to the overall site adequately restricted by fencing or posting of advisory signs? ☒ yes ☐ no ☐ not applicable
29. Are the infiltration basins surrounded by a fence or other features that preclude public access? ☒ yes ☐ no ☐ not applicable  
*on plant property*
30. Are distribution piping, pumping, and other appurtenances well maintained and operational? ☒ yes ☐ no ☐ not applicable
31. Is there evidence of clogging of distribution or other facilities?  
☐ yes ☒ no ☐ not applicable
32. Is there evidence of or public complaints about odors, excessive ground water mounding, or other nuisance conditions?  
☐ yes ☒ no ☐ not applicable

*There were solids in 2 of the ponds.  
 Trying to remove.*

33. Are the distribution facilities labeled? *NA*  
( ) yes ( ) no ( ) not applicable

34. Are above ground hose bibbs present?  
( ) yes ( ) no ( ) not applicable

*none noted*

35. Are two or more infiltration basins provided?  
(☒) yes ( ) no ( ) not applicable

36. Is the system operated with an alternating wetting and drying cycle?  
(☒) yes ( ) no ( ) not applicable

*weekly or even more often*

If yes, basin is wetted for \_\_\_\_ days and is dried for \_\_\_\_ days.

37. Are the basins allowed to fully dry before being reloaded?  
(☒) yes ( ) no ( ) not applicable

Note: If the basins are not allowed to dry, the system is subject to regulation as an other system under Part VII of Chapter 17-610, F.A.C. This will require higher levels of treatment and reliability.

38. Are the berms well maintained? (☒) yes ( ) no ( ) not applicable

39. Are the basin bottoms routinely scarified or otherwise maintained to maintain percolation rates? (☒) yes ( ) no ( ) not applicable

*waiting to let solids dry will remove, clean & scarify*

40. Is adequate freeboard provided (3 feet from normal maximum fill line to the top of the berm)? (☒) yes ( ) no ( ) not applicable

41. Is an emergency overflow or discharge device provided to ensure that water in the basin will not reach within 1 foot of the top?  
( ) yes (☒) no ( ) not applicable

*no equalization piping*

42. Are the emergency overflow or discharge facilities well maintained and operational? ( ) yes ( ) no (☒) not applicable

43. Are underdrains or perimeter drainage features provided?  
( ) yes ( ) no (☒) not applicable

If yes, specify:

- ( ) Underdrains
- ( ) Perimeter drains

44. Does the water collected in underdrains or perimeter drainage features meet appropriate effluent limits? ( ) yes ( ) no (☒) not applicable

45. What is the average annual hydraulic loading rate (as applied to the total bottom area of all infiltration basins)?

*see form 24* inch/day



NA

REUSE

Part V Absorption Field Systems

1. Is at least secondary treatment provided? ☐ yes ☐ no
2. Is at least basic disinfection provided? ☐ yes ☐ no
3. Does the reclaimed water never exceed 12 mg/l of nitrate (as N)?  
☐ yes ☐ no ☐ not applicable
4. Does the reclaimed water never exceed 10 mg/l TSS?  
☐ yes ☐ no ☐ not applicable
5. Does the treatment facility have a permitted capacity of at least 0.1 mgd? ☐ yes ☐ no
6. Are ground water monitoring facilities provided and is monitoring regularly performed (normally quarterly)? ☐ yes ☐ no
7. Are background, intermediate, and compliance wells provided and monitored? ☐ yes ☐ no ☐ not applicable
8. Are monitoring wells well marked? ☐ yes ☐ no ☐ not applicable
9. Are monitoring wells operational and well maintained?  
☐ yes ☐ no ☐ not applicable
10. Are there any violations of ground water standards at the compliance wells? ☐ yes ☐ no ☐ not applicable
11. Is there evidence of potential ground water quality problems at the intermediate wells? ☐ yes ☐ no ☐ not applicable
12. Are system storage facilities provided and do they have adequate capacity? ☐ yes ☐ no ☐ not applicable
13. Are the storage facilities lined? ☐ yes ☐ no ☐ not applicable
14. Is there evidence of seepage through the berms?  
☐ yes ☐ no ☐ not applicable
15. Is there evidence of discharge over the tops of the berms, erosion of the berms, or of any illegal discharge devices?  
☐ yes ☐ no ☐ not applicable
16. Are piping, control, and pumping facilities operational and well maintained? ☐ yes ☐ no ☐ not applicable
17. Is there evidence that the storage facilities are used?  
☐ yes ☐ no ☐ not applicable

MA

18. Are the berms well maintained (including vegetation control)?  
☐ yes ☐ no ☐ not applicable
19. Is a mosquito control program in place?  
☐ yes ☐ no ☐ not applicable
20. Is there evidence of mosquito problems?  
☐ yes ☐ no ☐ not applicable
21. Is an emergency overflow structure provided and is it well maintained and usable? ☐ yes ☐ no ☐ not applicable
22. Are storage facilities enclosed with a fence or other facilities that preclude public access? ☐ yes ☐ no ☐ not applicable
23. Are any features provided that enable reduction in setback distances?  
☐ yes ☐ no  
If yes, specify:  
☐ High-level disinfection  
☐ Class I reliability  
☐ Site adjacent to a right-of-way
24. Are adequate setback distances provided from the wetted area to the property lines or buildings? ☐ yes ☐ no ☐ not applicable
25. Are adequate setback distances provided to potable water supply wells, Class I waters, and Class II waters?  
☐ yes ☐ no ☐ not applicable
26. Are transmission facilities located at least 100 feet from public water supply wells? ☐ yes ☐ no ☐ not applicable
27. Is there evidence of a reduction in infiltration rates over the last permit period? ☐ yes ☐ no
28. Is there evidence of hydraulic problems such as wetness at the ground surface, ponding, or run-off from the site?  
☐ yes ☐ no ☐ not applicable
29. Are adequate advisory signs posted around the site?  
☐ yes ☐ no ☐ not applicable
30. Are distribution piping, pumping, and other appurtenances well maintained and operational? ☐ yes ☐ no ☐ not applicable
31. Is there evidence of clogging of distribution or other facilities?  
☐ yes ☐ no ☐ not applicable
32. Is there evidence of or public complaints about odors, run-off, excessive ground water mounding, or other nuisance conditions?  
☐ yes ☐ no ☐ not applicable

MA

33. Are the distribution facilities labeled?  
☐ yes ☐ no ☐ not applicable

34. Are above ground hose bibbs present?  
☐ yes ☐ no ☐ not applicable

35. Are two or more distribution systems provided?  
☐ yes ☐ no ☐ not applicable

36. Is the system operated with an alternating wetting and drying cycle?  
☐ yes ☐ no ☐ not applicable

If yes, system is wetted for \_\_\_\_ days and is dried for \_\_\_\_ days.

37. Are the distribution systems rested before being reloaded?  
☐ yes ☐ no ☐ not applicable

Note: If the distribution systems are not allowed to rest, the system is subject to regulation as an other system under Part VII of Chapter 17-610, F.A.C. This will require higher levels of treatment and reliability.

38. Is the property well maintained? ☐ yes ☐ no ☐ not applicable

39. Is the absorption field operated such as to use the overlying vegetation? ☐ yes ☐ no

40. Is the vegetation routinely cut and the cuttings removed from the site? ☐ yes ☐ no ☐ not applicable

41. Are underdrains or perimeter drainage features provided?  
☐ yes ☐ no ☐ not applicable

If yes, specify:

☐ Underdrains

☐ Perimeter drains

42. Does the water collected in underdrains or perimeter drainage features meet appropriate effluent limits? ☐ yes ☐ no ☐ not applicable

43. What is the average annual hydraulic loading rate (as applied to the total bottom area of all distribution systems' trenches)?  
\_\_\_\_\_ inch/day

MA

# WETLAND SYSTEMS

1. What is the acreage of the wetland? \_\_\_\_\_ acres
  2. What is the annual average discharge to the wetland? \_\_\_\_\_ mgd
  3. What is the average annual hydraulic loading to the wetland?  
\_\_\_\_\_ inches/week
  4. What is the maximum annual hydraulic loading to the wetland?  
\_\_\_\_\_ inches/week
  5. What is the minimum annual hydraulic loading to the wetland?  
\_\_\_\_\_ inches/week
  6. What is the annual loading rate of total phosphorus to the wetland?  
\_\_\_\_\_ grams per square meter per year
  7. What is the annual loading rate of total nitrogen to the wetland?  
\_\_\_\_\_ grams per square meter per year
  8. Who is responsible for operating the spreader structure(s) which discharges the effluent into the wetland?  
( ) wastewater treatment plant operator ( ) consulting firm \_\_\_\_\_  
( ) other \_\_\_\_\_
  9. What operational criteria are used to determine needed adjustments to the spreader structure(s)? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  10. Does the spreader structure(s) distribute the effluent effectively over the discharge point into the wetland? ( ) yes ( ) no
  11. Are there any signs of erosion or ponding at the initial discharge into the wetland? ( ) yes ( ) no
  12. Is there a build-up of foreign materials which evaded screening at the wastewater treatment plant? ( ) yes ( ) no
  13. How does the effluent flow through the wetland?  
( ) channels ( ) sheets ( ) other \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Does the effluent sheet flow through with even coverage in all parts of the wetland or does it tend to channelize in certain areas?  
\_\_\_\_\_  
\_\_\_\_\_
14. Is the perimeter of the wetland posted with signs indicating that effluent is being applied to the area? ( ) yes ( ) no

11A

15. Is the public allowed access to the wetland? ( ) yes ( ) no

If no, how is access prevented? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

16. Is a holding pond on-site? ( ) yes ( ) no

If yes, what is the capacity of the holding pond?  
\_\_\_\_\_ million gallons

17. Has any effluent not meeting pretreatment requirements been discharged into the wetland system? ( ) yes ( ) no

How are such discharges typically avoided? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

18. Is the odor in the wetland system offensive? ( ) yes ( ) no

19. Has the discharge to the wetland impacted the type, nature, or function of the wetland? ( ) yes ( ) no

Explain. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

20. What portion of the year is the wetland predominantly dry? \_\_\_\_\_  
\_\_\_\_\_

21. Has the discharge to the wetland affected historic water levels, periods of time the wetland is predominantly dry, or periods of time the wetland is predominantly wet? ( ) yes ( ) no

22. Have there been die-offs or shifts in vegetative composition at either the initial discharge into the wetland or other points throughout the wetland? ( ) yes ( ) no

23. Have there been changes in fish or amphibian populations since the discharge to the wetland was initiated? ( ) yes ( ) no

24. Have there been any shifts in pH, dissolved oxygen, or other water quality parameters since the discharge was initiated? ( ) yes ( ) no

If yes, why? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

MA

25. Are threatened or endangered species (e.g., ospreys, eagles, alligators, etc.) present? ☐ yes ☐ no

If yes, please list species, locations, and approximate dates seen.

26. What is the general condition of the wetland?  
☐ good ☐ fair ☐ poor

27. What is the frequency of routine inspections of the wetland?  
\_\_\_\_\_/year

28. Who is responsible for each aspect of operational monitoring of the receiving/treatment wetland required by the permit?

29. Are all wetland stations permanently marked? ☐ yes ☐ no

If yes, how are they marked? \_\_\_\_\_

30. What type of stage monitor is used at each site? \_\_\_\_\_

31. Is each stage monitor operating properly? ☐ yes ☐ no

32. Are wetland samples taken at the sites specified in the permit?  
☐ yes ☐ no

33. Is sampling and analysis completed for each parameter specified by the permit? ☐ yes ☐ no

34. Is the frequency and methodology of sampling in accordance with the permit? ☐ yes ☐ no

35. Is laboratory analysis conducted in accordance with the permit?  
☐ yes ☐ no

NA

36. Are copies of current and past wetland reports kept at the wastewater treatment plant? ( ) yes ( ) no

Is the amount of information and the detail provided in these reports consistent with that required by the permit? ( ) yes ( ) no

37. What are the most common problems with the wetland?

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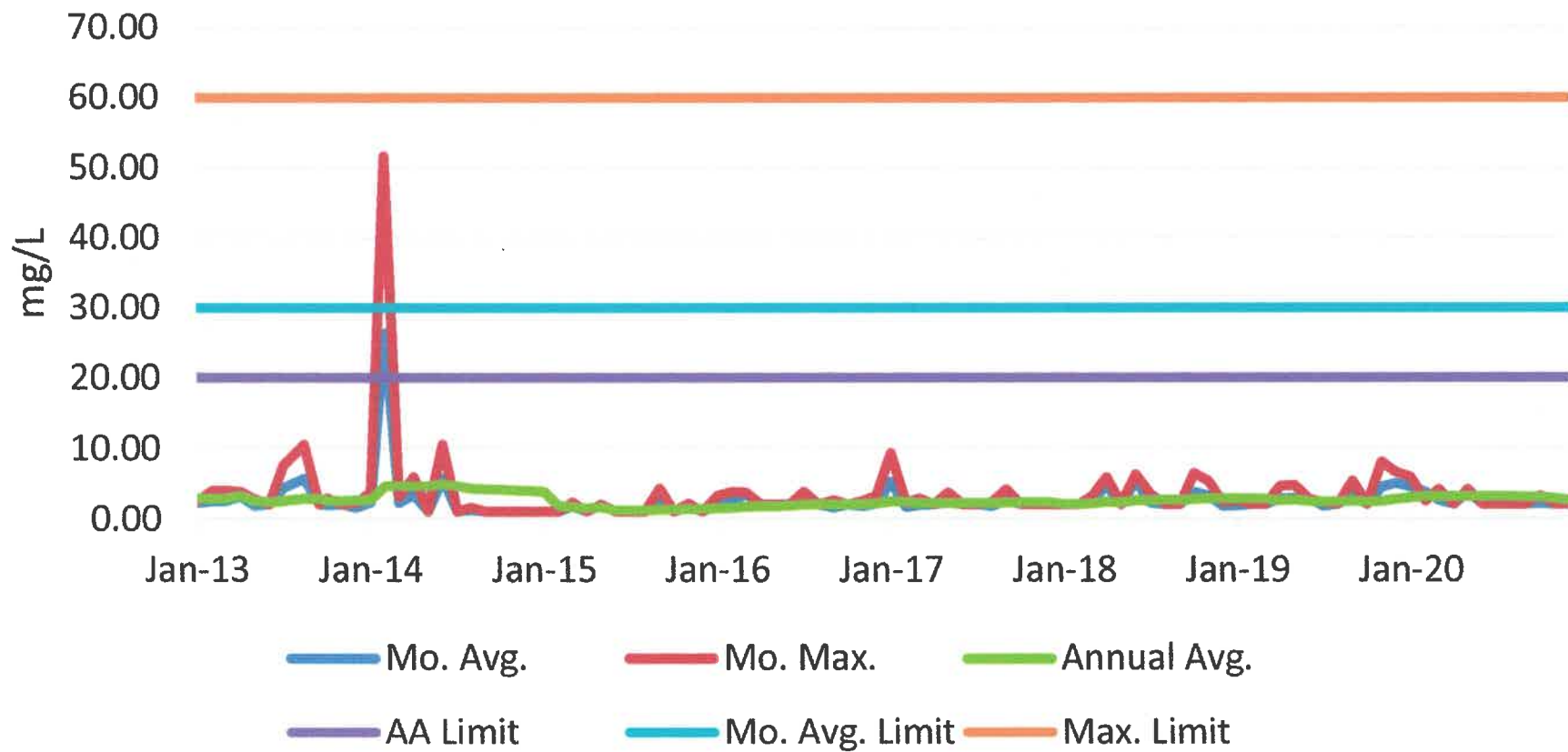
**ATTACHMENT II**  
**TABLES AND GRAPHS OF PARAMETERS**

## CBOD5

DATE	Mo. Avg.	Mo. Max.	Annual Avg.	AA Limit	Mo. Avg. Limit	Max. Limit
Jan-13	2.20	2.40	2.90	20	30	60
Feb-13	2.40	3.90	2.80	20	30	60
Mar-13	2.40	3.90	2.80	20	30	60
Apr-13	3.10	3.80	3.20	20	30	60
May-13	1.80	2.70	2.50	20	30	60
Jun-13	2.00	2.00	2.30	20	30	60
Jul-13	4.30	7.60	2.50	20	30	60
Aug-13	5.70	10.50	2.80	20	30	60
Sep-13	2.00	2.00	2.70	20	30	60
Oct-13	1.90	2.90	2.60	20	30	60
Nov-13	2.00	2.00	2.40	20	30	60
Dec-13	1.50	2.10	2.61	20	30	60
Jan-14	2.30	3.60	2.62	20	30	60
Feb-14	26.30	51.60	4.61	20	30	60
Mar-14	2.20	3.00	4.59	20	30	60
Apr-14	3.40	5.90	4.62	20	30	60
May-14	1.00	1.00	4.55	20	30	60
Jun-14	5.70	10.50	4.86	20	30	60
Jul-14	1.00	1.00	4.58	20	30	60
Aug-14	1.20	1.50	4.21	20	30	60
Sep-14	1.00	1.00	4.13	20	30	60
Oct-14	1.00	1.00	4.05	20	30	60
Nov-14	1.00	1.00	3.97	20	30	60
Dec-14	1.00	1.00	3.93	20	30	60
Jan-15	1.00	1.00	3.82	20	30	60
Feb-15	1.00	1.00	1.71	20	30	60
Mar-15	1.70	2.30	1.67	20	30	60
Apr-15	1.00	1.00	1.47	20	30	60
May-15	2.00	2.00	1.55	20	30	60
Jun-15	1.00	1.00	1.16	20	30	60
Jul-15	1.00	1.00	1.16	20	30	60
Aug-15	1.00	1.00	1.14	20	30	60
Sep-15	2.60	4.20	1.28	20	30	60
Oct-15	1.00	1.00	1.28	20	30	60
Nov-15	1.60	2.10	1.33	20	30	60
Dec-15	1.00	1.00	1.33	20	30	60
Jan-16	2.10	3.20	1.42	20	30	60
Feb-16	2.40	3.80	1.53	20	30	60
Mar-16	3.40	3.60	1.68	20	30	60
Apr-16	2.00	2.00	1.76	20	30	60
May-16	2.00	2.00	1.76	20	30	60
Jun-16	2.00	2.00	1.84	20	30	60
Jul-16	2.40	3.80	1.96	20	30	60
Aug-16	2.00	2.00	2.04	20	30	60
Sep-16	1.50	2.60	1.95	20	30	60
Oct-16	2.00	2.00	2.03	20	30	60
Nov-16	1.70	2.40	2.04	20	30	60
Dec-16	2.10	3.20	2.13	20	30	60

Jan-17	5.20	9.30	2.39	20	30	60
Feb-17	1.60	2.20	2.33	20	30	60
Mar-17	1.90	2.80	2.20	20	30	60
Apr-17	2.00	2.00	2.20	20	30	60
May-17	2.30	3.60	2.23	20	30	60
Jun-17	2.00	2.00	2.23	20	30	60
Jul-17	2.00	2.00	2.19	20	30	60
Aug-17	1.70	2.30	2.17	20	30	60
Sep-17	2.60	4.10	2.26	20	30	60
Oct-17	2.00	2.00	2.26	20	30	60
Nov-17	2.00	2.00	2.28	20	30	60
Dec-17	2.00	2.00	2.28	20	30	60
Jan-18	2.00	2.00	2.01	20	30	60
Feb-18	2.00	2.00	2.04	20	30	60
Mar-18	2.70	3.20	2.11	20	30	60
Apr-18	4.60	5.80	2.33	20	30	60
May-18	2.00	2.00	2.30	20	30	60
Jun-18	5.30	6.30	2.58	20	30	60
Jul-18	2.20	3.40	2.59	20	30	60
Aug-18	2.00	2.00	2.62	20	30	60
Sep-18	2.00	2.00	2.57	20	30	60
Oct-18	3.70	6.40	2.71	20	30	60
Nov-18	3.20	5.30	2.81	20	30	60
Dec-18	1.70	2.30	2.78	20	30	60
Jan-19	1.80	2.50	2.77	20	30	60
Feb-19	2.00	2.00	2.77	20	30	60
Mar-19	2.00	2.00	2.71	20	30	60
Apr-19	2.80	4.60	2.56	20	30	60
May-19	2.90	4.70	2.63	20	30	60
Jun-19	2.70	2.70	2.42	20	30	60
Jul-19	1.70	2.30	2.38	20	30	60
Aug-19	2.00	2.00	2.38	20	30	60
Sep-19	3.20	5.30	2.48	20	30	60
Oct-19	2.00	2.00	2.33	20	30	60
Nov-19	4.50	8.00	2.44	20	30	60
Dec-19	5.00	6.60	2.72	20	30	60
Jan-20	4.50	5.90	2.94	20	30	60
Feb-20	3.70	2.40	3.08	20	30	60
Mar-20	2.60	4.10	3.13	20	30	60
Apr-20	2.00	2.00	3.07	20	30	60
May-20	3.70	4.10	3.13	20	30	60
Jun-20	2.00	2.00	3.08	20	30	60
Jul-20	2.00	2.00	3.10	20	30	60
Aug-20	2.00	2.00	3.10	20	30	60
Sep-20	2.00	2.00	3.00	20	30	60
Oct-20	2.10	3.20	3.01	20	30	60
Nov-20	2.00	2.00	2.80	20	30	60
Dec-20	2.00	2.00	2.55	20	30	60

## CBOD5 Results vs. Limits

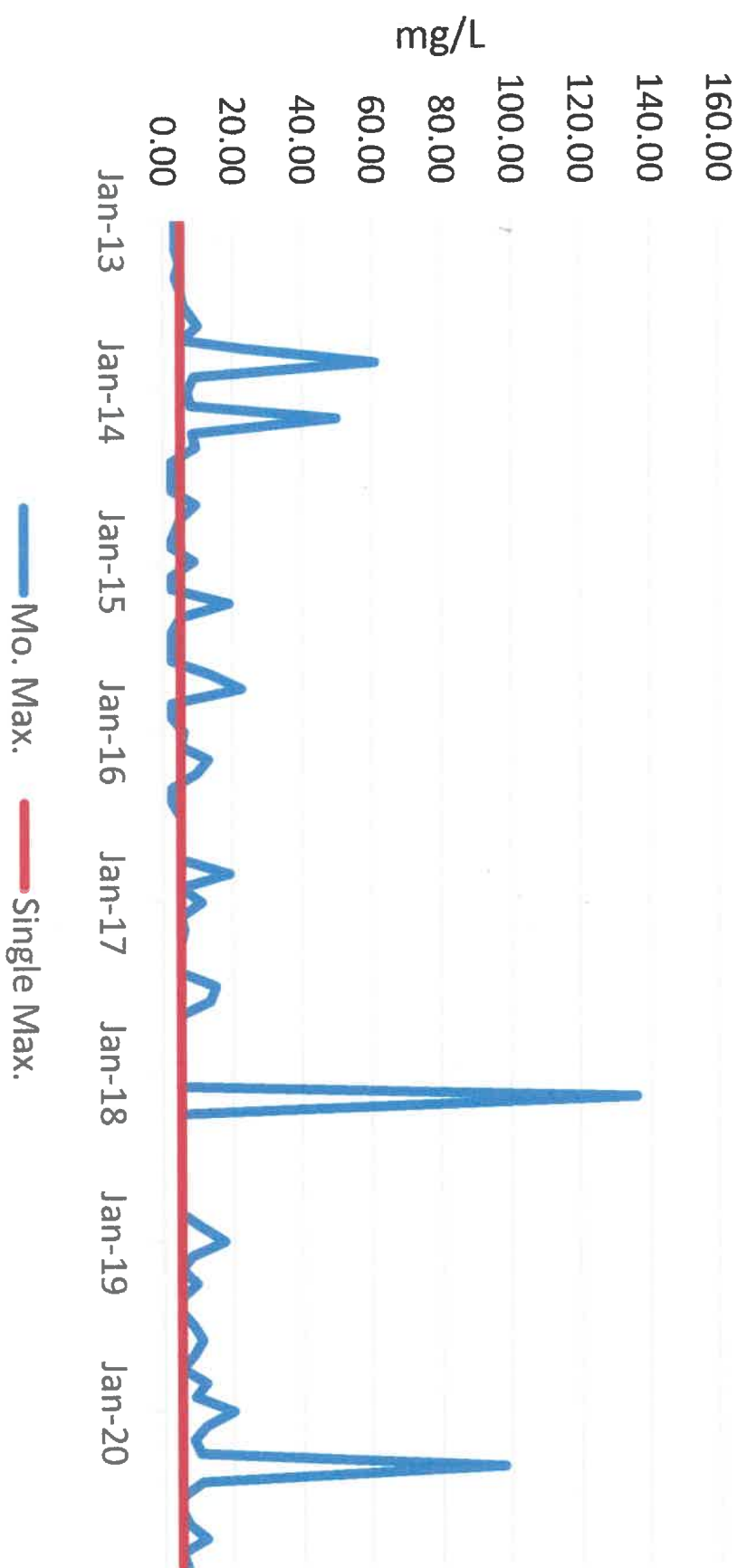


# Total Suspended Solids

DATE	Mo. Max.	Single Max.	
Jan-13	3.50	5.00	
Feb-13	3.50	5.00	
Mar-13	3.50	5.00	
Apr-13	4.70	5.00	
May-13	3.50	5.00	
Jun-13	5.00	5.00	
Jul-13	6.00	5.00	
Aug-13	10.00	5.00	(Plugged Airlift Line)
Sep-13	5.50	5.00	(RAS line plugged.)
Oct-13	22.50	5.00	(Airlift issue.)
Nov-13	61.00	5.00	
Dec-13	9.00	5.00	
Jan-14	7.00	5.00	
Feb-14	8.00	5.00	
Mar-14	50.00	5.00	(Airlift issue.)
Apr-14	8.50	5.00	(Airlift issue.)
May-14	9.50	5.00	(Airlift issue.)
Jun-14	2.50	5.00	
Jul-14	2.50	5.00	
Aug-14	2.50	5.00	
Sep-14	9.50	5.00	(Pumped plant.)
Oct-14	5.00	5.00	
Nov-14	2.50	5.00	
Dec-14	2.50	5.00	
Jan-15	9.00	5.00	(Airlift issue.)
Feb-15	2.50	5.00	
Mar-15	2.50	5.00	
Apr-15	19.00	5.00	
May-15	5.00	5.00	
Jun-15	2.50	5.00	
Jul-15	2.50	5.00	
Aug-15	2.50	5.00	
Sep-15	14.00	5.00	(Airlift issue.)
Oct-15	22.50	5.00	(Airlift issue.)
Nov-15	2.50	5.00	
Dec-15	2.50	5.00	
Jan-16	6.00	5.00	(Airlift issue.)
Feb-16	5.00	5.00	
Mar-16	13.00	5.00	(RAS line plugged.)
Apr-16	9.50	5.00	(Airlift issue.)
May-16	2.50	5.00	
Jun-16	2.50	5.00	
Jul-16	5.00	5.00	
Aug-16	5.00	5.00	
Sep-16	5.00	5.00	
Oct-16	5.00	5.00	
Nov-16	19.00	5.00	(Operation issue.)
Dec-16	5.00	5.00	

Jan-17	11.00	5.00	(No comment.)
Feb-17	5.00	5.00	
Mar-17	6.00	5.00	(No comment.)
Apr-17	5.00	5.00	
May-17	5.00	5.00	
Jun-17	5.00	5.00	
Jul-17	15.00	5.00	(No comment.)
Aug-17	13.50	5.00	(No comment.)
Sep-17	5.00	5.00	
Oct-17	5.00	5.00	
Nov-17	5.00	5.00	
Dec-17	5.00	5.00	
Jan-18	5.00	5.00	
Feb-18	5.00	5.00	
Mar-18	136.00	5.00	(Electical issue.)
Apr-18	5.00	5.00	
May-18	5.00	5.00	
Jun-18	5.00	5.00	
Jul-18	5.00	5.00	
Aug-18	5.00	5.00	
Sep-18	5.00	5.00	
Oct-18	5.00	5.00	
Nov-18	5.00	5.00	
Dec-18	11.00	5.00	(Airlift plugged.)
Jan-19	17.50	5.00	(Airlift plugged.)
Feb-19	8.00	5.00	(No comment.)
Mar-19	5.00	5.00	
Apr-19	9.50	5.00	(No comment.)
May-19	5.00	5.00	
Jun-19	5.00	5.00	
Jul-19	8.50	5.00	(No comment.)
Aug-19	11.00	5.00	(Lift station issue.)
Sep-19	8.50	5.00	(Airlift plugged.)
Oct-19	5.00	5.00	
Nov-19	12.00	5.00	(Airlift plugged.)
Dec-19	9.00	5.00	(Operator adjusted air)
Jan-20	20.00	5.00	(No comment.)
Feb-20	12.00	5.00	(No comment.)
Mar-20	8.50	5.00	(No comment.)
Apr-20	10.50	5.00	(No comment.)
May-20	98.00	5.00	(Lift station debris and trash.)
Jun-20	11.00	5.00	(No comment.)
Jul-20	5.00	5.00	
Aug-20	5.00	5.00	
Sep-20	7.00	5.00	(Lift station debris and trash.)
Oct-20	12.00	5.00	(No comment.)
Nov-20	5.00	5.00	
Dec-20	6.50	5.00	(No comment.)

## TSS Maximum vs. Limit



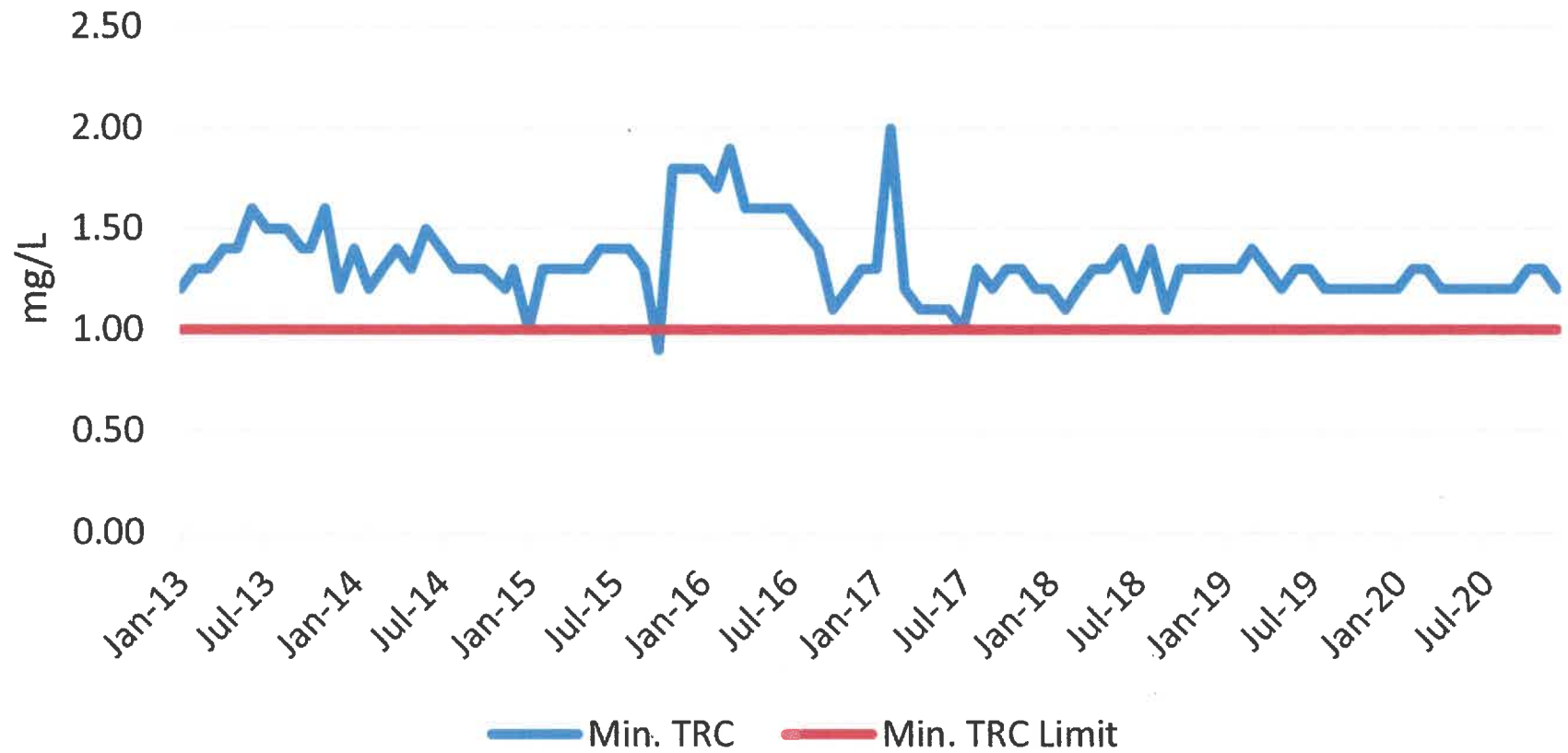
Total Residual Chlorine

DATE	Min. TRC	Min. TRC Limit
Jan-13	1.20	1.00
Feb-13	1.30	1.00
Mar-13	1.30	1.00
Apr-13	1.40	1.00
May-13	1.40	1.00
Jun-13	1.60	1.00
Jul-13	1.50	1.00
Aug-13	1.50	1.00
Sep-13	1.40	1.00
Oct-13	1.40	1.00
Nov-13	1.60	1.00
Dec-13	1.20	1.00
Jan-14	1.40	1.00
Feb-14	1.20	1.00
Mar-14	1.30	1.00
Apr-14	1.40	1.00
May-14	1.30	1.00
Jun-14	1.50	1.00
Jul-14	1.40	1.00
Aug-14	1.30	1.00
Sep-14	1.30	1.00
Oct-14	1.30	1.00
Nov-14	1.20	1.00
Dec-14	1.30	1.00
Jan-15	1.00	1.00
Feb-15	1.30	1.00
Mar-15	1.30	1.00
Apr-15	1.30	1.00
May-15	1.30	1.00
Jun-15	1.40	1.00
Jul-15	1.40	1.00
Aug-15	1.40	1.00
Sep-15	1.30	1.00
Oct-15	0.90	1.00
Nov-15	1.80	1.00
Dec-15	1.80	1.00
Jan-16	1.80	1.00
Feb-16	1.70	1.00
Mar-16	1.90	1.00
Apr-16	1.60	1.00
May-16	1.60	1.00
Jun-16	1.60	1.00
Jul-16	1.60	1.00
Aug-16	1.50	1.00
Sep-16	1.40	1.00
Oct-16	1.10	1.00
Nov-16	1.20	1.00
Dec-16	1.30	1.00



Jan-17	1.30	1.00
Feb-17	2.00	1.00
Mar-17	1.20	1.00
Apr-17	1.10	1.00
May-17	1.10	1.00
Jun-17	1.10	1.00
Jul-17	1.00	1.00
Aug-17	1.30	1.00
Sep-17	1.20	1.00
Oct-17	1.30	1.00
Nov-17	1.30	1.00
Dec-17	1.20	1.00
Jan-18	1.20	1.00
Feb-18	1.10	1.00
Mar-18	1.20	1.00
Apr-18	1.30	1.00
May-18	1.30	1.00
Jun-18	1.40	1.00
Jul-18	1.20	1.00
Aug-18	1.40	1.00
Sep-18	1.10	1.00
Oct-18	1.30	1.00
Nov-18	1.30	1.00
Dec-18	1.30	1.00
Jan-19	1.30	1.00
Feb-19	1.30	1.00
Mar-19	1.40	1.00
Apr-19	1.30	1.00
May-19	1.20	1.00
Jun-19	1.30	1.00
Jul-19	1.30	1.00
Aug-19	1.20	1.00
Sep-19	1.20	1.00
Oct-19	1.20	1.00
Nov-19	1.20	1.00
Dec-19	1.20	1.00
Jan-20	1.20	1.00
Feb-20	1.30	1.00
Mar-20	1.30	1.00
Apr-20	1.20	1.00
May-20	1.20	1.00
Jun-20	1.20	1.00
Jul-20	1.20	1.00
Aug-20	1.20	1.00
Sep-20	1.20	1.00
Oct-20	1.30	1.00
Nov-20	1.30	1.00
Dec-20	1.20	1.00

## TRC Minimum vs. Limit



Fecal (#/ 100 ml)

DATE	Mo. Max.	% Non-Dect	% Limit	Max. Limit
Jan-13	1	100	75	25
Feb-13	13	94	75	25
Mar-13	13	94	75	25
Apr-13	2	88	75	25
May-13	1	100	75	25
Jun-13	2	100	75	25
Jul-13	41	79	75	25
Aug-13	2	88	75	25
Sep-13	1	87	75	25
Oct-13	4	68	75	25
Nov-13	1	100	75	25
Dec-13	6	78	75	25
Jan-14	3	88	75	25
Feb-14	1	94	75	25
Mar-14	13	76	75	25
Apr-14	2	89	75	25
May-14	60	88	75	25
Jun-14	1	94	75	25
Jul-14	1	95	75	25
Aug-14	3	94	75	25
Sep-14	4	83	75	25
Oct-14	0.5	100	75	25
Nov-14	12	93	75	25
Dec-14	25	94	75	25
Jan-15	4	81	75	25
Feb-15	144	93	75	25
Mar-15	30	88	75	25
Apr-15	0.5	100	75	25
May-15	1	100	75	25
Jun-15	0.5	100	75	25
Jul-15	1	94	75	25
Aug-15	424.2	82	75	25
Sep-15	60	88	75	25
Oct-15	1	94	75	25
Nov-15	3	94	75	25
Dec-15	2	95	75	25
Jan-16	4	81	75	25
Feb-16	5	88	75	25
Mar-16	20000	90	75	25
Apr-16	< 1.0	10	75	25
May-16	1	94	75	25
Jun-16	< 1.0	100	75	25
Jul-16	1.00	100.00	75	25
Aug-16	1.00	100.00	75	25
Sep-16	4.00	94.00	75	25
Oct-16	1.00	100.00	75	25
Nov-16	127.00	82.00	75	25
Dec-16	1.00	100.00	75	25
Jan-17	1.00	89.00	75	25

(No reason given.)

(Bottle contamination?)

(Residual good. No reason given.)

(Sluge return plugged.)

(Debris in lift station.)

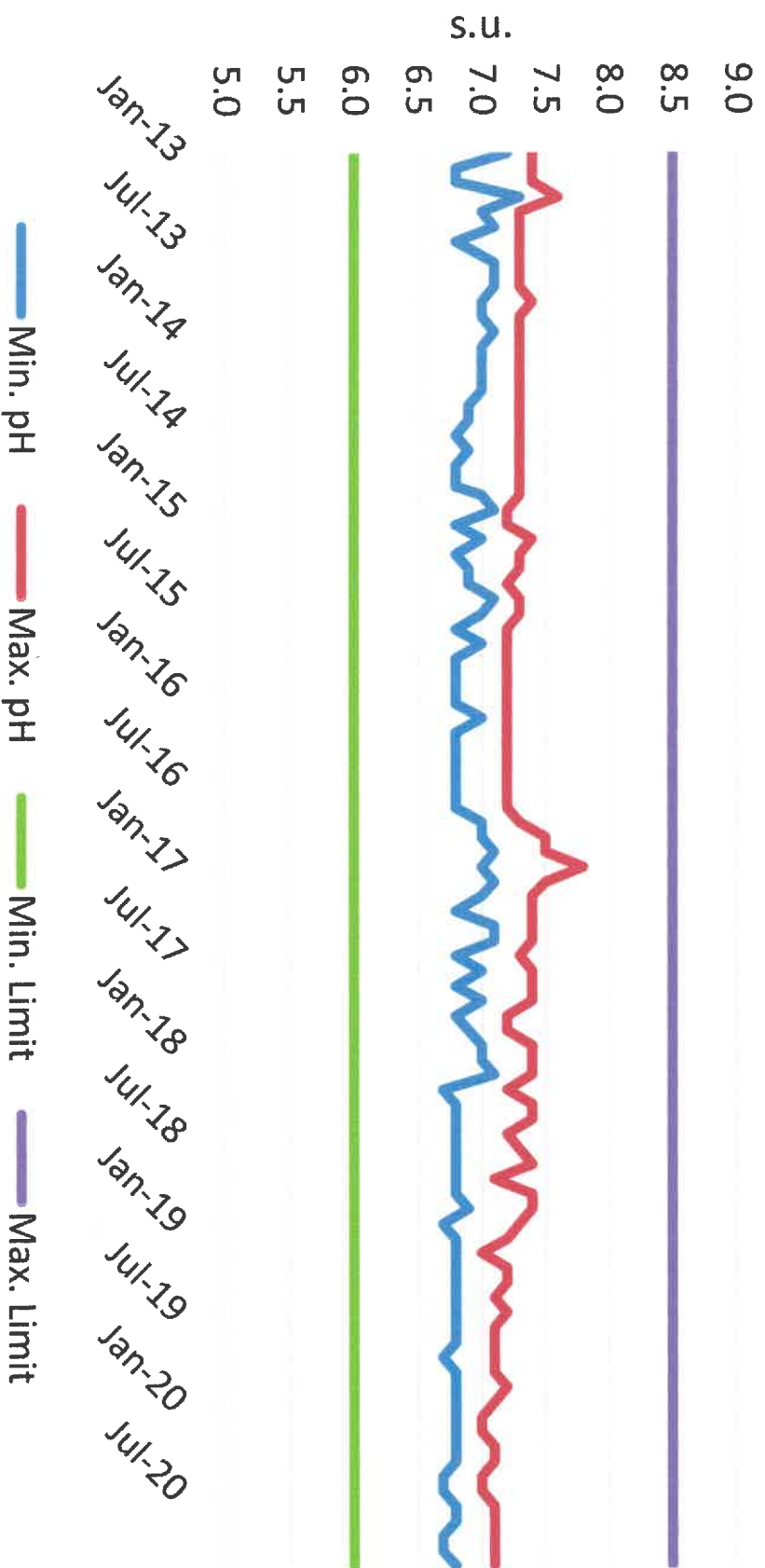
Feb-17	21.00	94.00	75	25	
Mar-17	1.00	94.00	75	25	
Apr-17	1.00	100.00	75	25	
May-17	1.00	100.00	75	25	
Jun-17	1.00	100.00	75	25	
Jul-17	1.00	89.00	75	25	
Aug-17	27.00	74.00	75	25	(No comment.)
Sep-17	56.00	56.00	75	25	(Irma caused operation issues.)
Oct-17	136.00	66.00	75	25	
Nov-17	14.00	59.00	75	25	
Dec-17	3.00	67.00	75	25	
Jan-18	12.00	95.00	75	25	
Feb-18	7.00	88.00	75	25	
Mar-18	1.00	94.00	75	25	
Apr-18	3.00	70.00	75	25	(Earlier electrical problems at plant.)
May-18	2.00	94.00	75	25	
Jun-18	1.00	81.00	75	25	
Jul-18	4.00	78.00	75	25	
Aug-18	1.00	100.00	75	25	
Sep-18	6.00	87.00	75	25	
Oct-18	18.00	95.00	75	25	
Nov-18	4.00	89.00	75	25	
Dec-18	3.00	88.00	75	25	
Jan-19	5.00	94.00	75	25	
Feb-19	1.00	94.00	75	25	
Mar-19	1.00	94.00	75	25	
Apr-19	1.00	100.00	75	25	
May-19	5.00	76.00	75	25	
Jun-19	4.00	94.00	75	25	
Jul-19	24.00	95.00	75	25	
Aug-19	1.00	88.00	75	25	
Sep-19	1.00	93.00	75	25	
Oct-19	2.00	89.00	75	25	
Nov-19	2.00	93.00	75	25	
Dec-19	4.00	DNP	75	25	
Jan-20	1.00	100.00	75	25	
Feb-20	12.00	81.00	75	25	
Mar-20	1.00	94.00	75	25	
Apr-20	60.00	94.00	75	25	(No comment.)
May-20	1.00	88.00	75	25	
Jun-20	27.00	88.00	75	25	
Jul-20	25.00	88.00	75	25	
Aug-20	1.00	76.00	75	25	
Sep-20	1.00	94.00	75	25	
Oct-20	21.00	93.00	75	25	
Nov-20	1.00	80.00	75	25	
Dec-20	2.00	87.00	75	25	

pH

DATE	Min. pH	Max. pH	Min. Limit	Max. Limit
Jan-13	7.2	7.4	6.0	8.5
Feb-13	6.8	7.4	6.0	8.5
Mar-13	6.8	7.4	6.0	8.5
Apr-13	7.3	7.6	6.0	8.5
May-13	7.0	7.3	6.0	8.5
Jun-13	7.1	7.3	6.0	8.5
Jul-13	6.8	7.3	6.0	8.5
Aug-13	7.1	7.3	6.0	8.5
Sep-13	7.1	7.3	6.0	8.5
Oct-13	7.1	7.3	6.0	8.5
Nov-13	7.0	7.4	6.0	8.5
Dec-13	7.0	7.3	6.0	8.5
Jan-14	7.1	7.3	6.0	8.5
Feb-14	7.0	7.3	6.0	8.5
Mar-14	7.0	7.3	6.0	8.5
Apr-14	7.0	7.3	6.0	8.5
May-14	7.0	7.3	6.0	8.5
Jun-14	6.9	7.3	6.0	8.5
Jul-14	6.9	7.3	6.0	8.5
Aug-14	6.8	7.3	6.0	8.5
Sep-14	6.9	7.3	6.0	8.5
Oct-14	6.8	7.3	6.0	8.5
Nov-14	6.8	7.3	6.0	8.5
Dec-14	7.0	7.3	6.0	8.5
Jan-15	7.1	7.2	6.0	8.5
Feb-15	6.8	7.2	6.0	8.5
Mar-15	7.0	7.4	6.0	8.5
Apr-15	6.8	7.3	6.0	8.5
May-15	6.9	7.3	6.0	8.5
Jun-15	6.9	7.2	6.0	8.5
Jul-15	7.1	7.3	6.0	8.5
Aug-15	7.0	7.3	6.0	8.5
Sep-15	6.8	7.2	6.0	8.5
Oct-15	7.0	7.2	6.0	8.5
Nov-15	6.8	7.2	6.0	8.5
Dec-15	6.8	7.2	6.0	8.5
Jan-16	6.8	7.2	6.0	8.5
Feb-16	6.8	7.2	6.0	8.5
Mar-16	7.0	7.2	6.0	8.5
Apr-16	6.8	7.2	6.0	8.5
May-16	6.8	7.2	6.0	8.5
Jun-16	6.8	7.2	6.0	8.5
Jul-16	6.8	7.2	6.0	8.5
Aug-16	6.8	7.2	6.0	8.5
Sep-16	6.8	7.2	6.0	8.5
Oct-16	7.0	7.3	6.0	8.5
Nov-16	7.0	7.5	6.0	8.5
Dec-16	7.1	7.5	6.0	8.5
Jan-17	7.0	7.8	6.0	8.5

Feb-17	7.1	7.5	6.0	8.5
Mar-17	7.0	7.4	6.0	8.5
Apr-17	6.8	7.4	6.0	8.5
May-17	7.1	7.4	6.0	8.5
Jun-17	7.1	7.4	6.0	8.5
Jul-17	6.8	7.3	6.0	8.5
Aug-17	7.0	7.4	6.0	8.5
Sep-17	6.8	7.4	6.0	8.5
Oct-17	7.0	7.4	6.0	8.5
Nov-17	6.8	7.2	6.0	8.5
Dec-17	6.9	7.2	6.0	8.5
Jan-18	7.0	7.4	6.0	8.5
Feb-18	7.0	7.4	6.0	8.5
Mar-18	7.1	7.4	6.0	8.5
Apr-18	6.7	7.2	6.0	8.5
May-18	6.8	7.4	6.0	8.5
Jun-18	6.8	7.4	6.0	8.5
Jul-18	6.8	7.2	6.0	8.5
Aug-18	6.8	7.3	6.0	8.5
Sep-18	6.8	7.4	6.0	8.5
Oct-18	6.8	7.1	6.0	8.5
Nov-18	6.8	7.4	6.0	8.5
Dec-18	6.9	7.4	6.0	8.5
Jan-19	6.7	7.3	6.0	8.5
Feb-19	6.8	7.2	6.0	8.5
Mar-19	6.8	7.0	6.0	8.5
Apr-19	6.8	7.2	6.0	8.5
May-19	6.8	7.2	6.0	8.5
Jun-19	6.8	7.1	6.0	8.5
Jul-19	6.8	7.2	6.0	8.5
Aug-19	6.8	7.1	6.0	8.5
Sep-19	6.8	7.1	6.0	8.5
Oct-19	6.7	7.1	6.0	8.5
Nov-19	6.8	7.1	6.0	8.5
Dec-19	6.8	7.2	6.0	8.5
Jan-20	6.8	7.1	6.0	8.5
Feb-20	6.8	7.0	6.0	8.5
Mar-20	6.8	7.0	6.0	8.5
Apr-20	6.8	7.1	6.0	8.5
May-20	6.8	7.1	6.0	8.5
Jun-20	6.7	7.0	6.0	8.5
Jul-20	6.7	7.0	6.0	8.5
Aug-20	6.8	7.1	6.0	8.5
Sep-20	6.8	7.1	6.0	8.5
Oct-20	6.7	7.1	6.0	8.5
Nov-20	6.7	7.1	6.0	8.5
Dec-20	6.8	7.1	6.0	8.5

## Minimum and Maximum pH Results vs. Limits





Nitrate

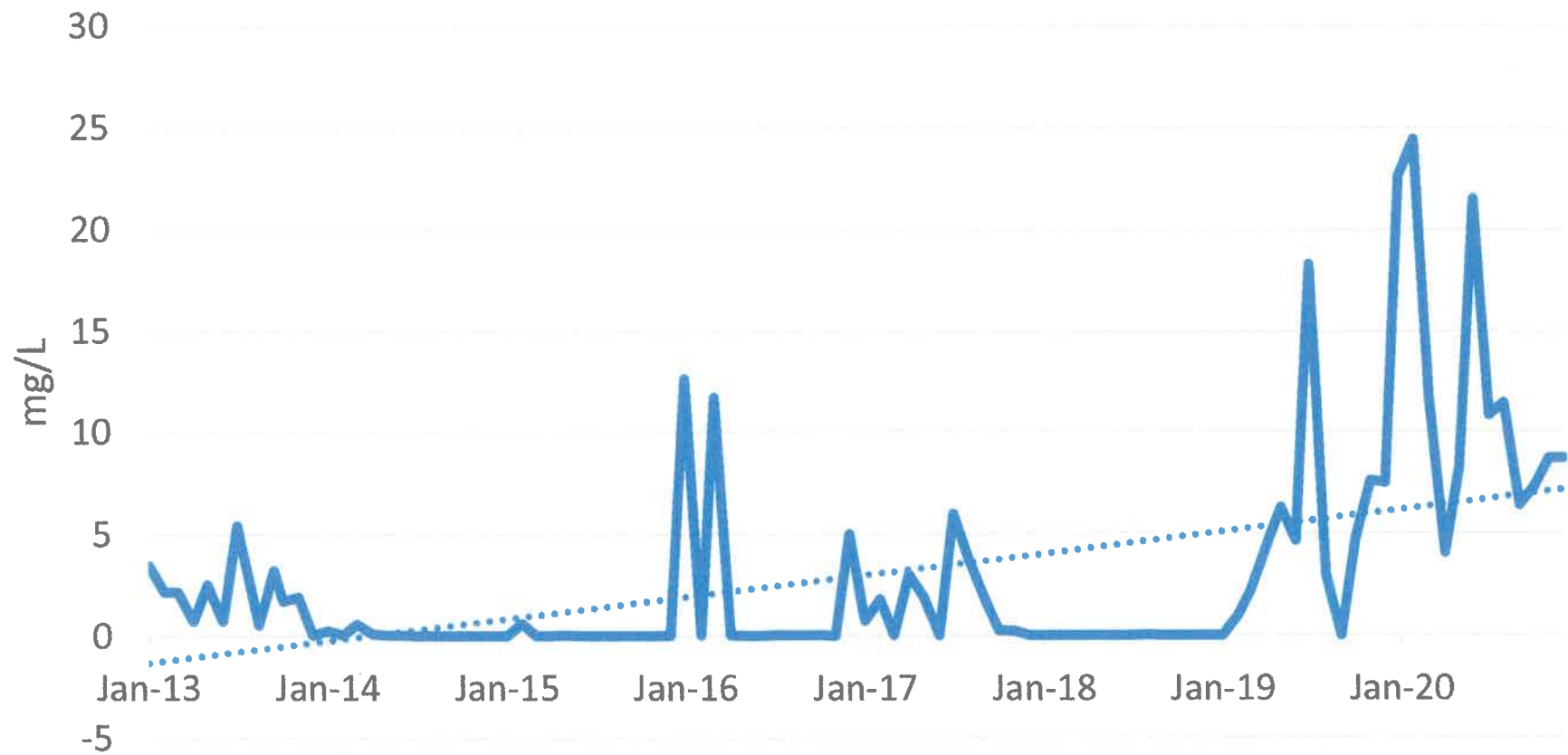
DATE	Max.	Limit
Jan-13	3.467	12.0
Feb-13	2.139	12.0
Mar-13	2.139	12.0
Apr-13	0.718	12.0
May-13	2.514	12.0
Jun-13	0.720	12.0
Jul-13	5.400	12.0
Aug-13	0.530	12.0
Sep-13	3.200	12.0
Oct-13	1.700	12.0
Nov-13	1.900	12.0
Dec-13	0.022	12.0
Jan-14	0.25	12.0
Feb-14	0.043	12.0
Mar-14	0.580	12.0
Apr-14	0.087	12.0
May-14	0.021	12.0
Jun-14	0.021	12.0
Jul-14	0.015	12.0
Aug-14	0.015	12.0
Sep-14	0.0125	12.0
Oct-14	0.0125	12.0
Nov-14	0.0125	12.0
Dec-14	0.0125	12.0
Jan-15	0.0125	12.0
Feb-15	0.6100	12.0
Mar-15	0.0125	12.0
Apr-15	0.0125	12.0
May-15	0.0250	12.0
Jun-15	0.0125	12.0
Jul-15	0.0125	12.0
Aug-15	0.0125	12.0
Sep-15	0.0125	12.0
Oct-15	0.0125	12.0
Nov-15	0.0125	12.0
Dec-15	0.0125	12.0
Jan-16	12.60	12.0
Feb-16	0.0420	12.0
Mar-16	11.7000	12.0
Apr-16	0.0360	12.0
May-16	0.0125	12.0
Jun-16	0.0125	12.0
Jul-16	0.025	12.0
Aug-16	0.025	12.0
Sep-16	0.025	12.0
Oct-16	0.025	12.0
Nov-16	0.010	12.0
Dec-16	5.000	12.0

(Airlift plug)

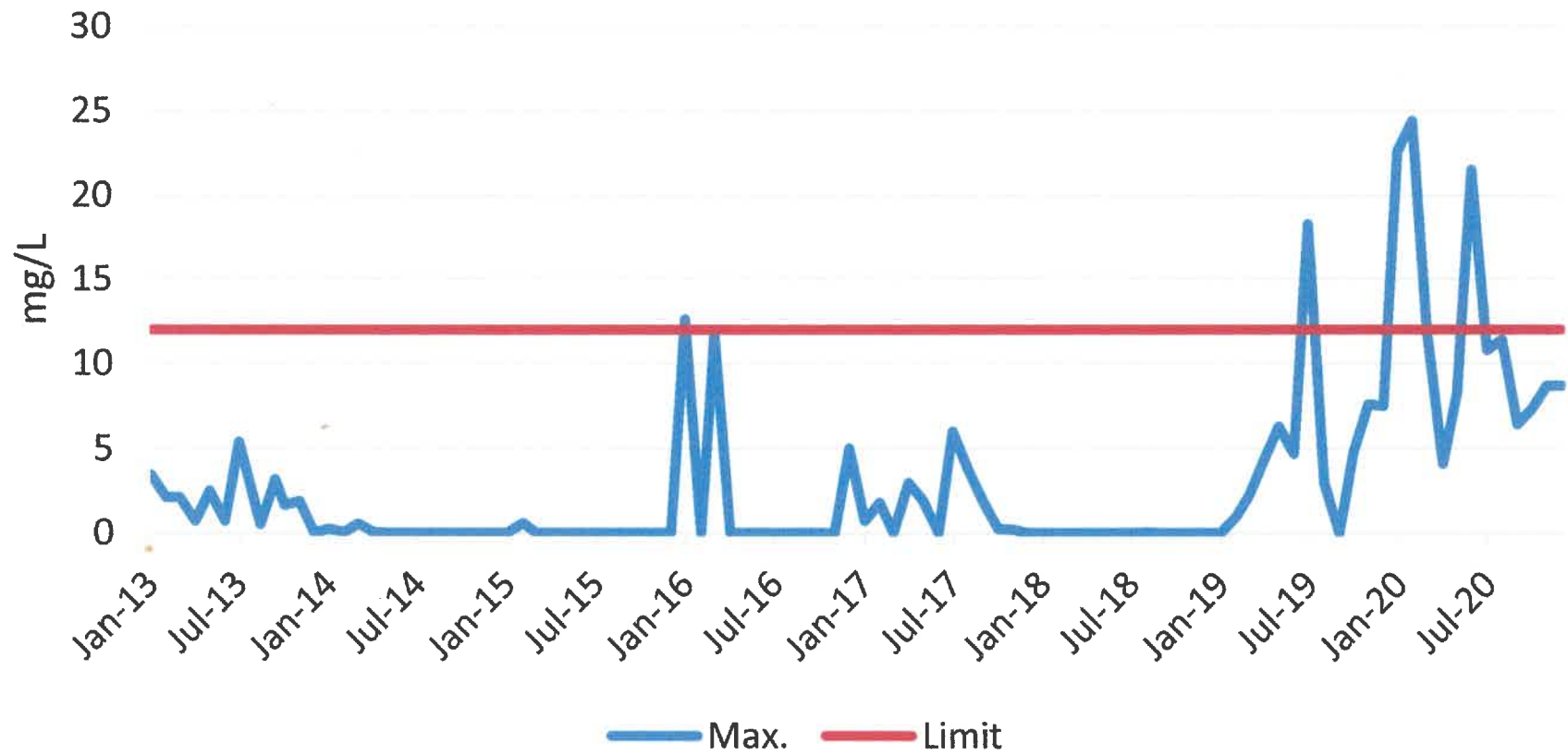


Jan-17	0.740	12.0
Feb-17	1.800	12.0
Mar-17	0.025	12.0
Apr-17	3.000	12.0
May-17	1.900	12.0
Jun-17	0.025	12.0
Jul-17	6.000	12.0
Aug-17	3.800	12.0
Sep-17	1.900	12.0
Oct-17	0.260	12.0
Nov-17	0.230	12.0
Dec-17	0.025	12.0
Jan-18	0.025	12.0
Feb-18	0.025	12.0
Mar-18	0.025	12.0
Apr-18	0.025	12.0
May-18	0.025	12.0
Jun-18	0.025	12.0
Jul-18	0.025	12.0
Aug-18	0.061	12.0
Sep-18	0.025	12.0
Oct-18	0.025	12.0
Nov-18	0.025	12.0
Dec-18	0.025	12.0
Jan-19	0.025	12.0
Feb-19	0.990	12.0
Mar-19	2.300	12.0
Apr-19	4.400	12.0
May-19	6.300	12.0
Jun-19	4.700	12.0
Jul-19	18.300	12.0
Aug-19	3.000	12.0
Sep-19	0.025	12.0
Oct-19	4.800	12.0
Nov-19	7.600	12.0
Dec-19	7.500	12.0
Jan-20	22.600	12.0
Feb-20	24.400	12.0
Mar-20	11.700	12.0
Apr-20	4.100	12.0
May-20	8.300	12.0
Jun-20	21.500	12.0
Jul-20	10.800	12.0
Aug-20	11.400	12.0
Sep-20	6.40	12.0
Oct-20	7.30	12.0
Nov-20	8.70	12.0
Dec-20	8.70	12.0

## Nitrate Trending Results



## Nitrate Results vs. Limit



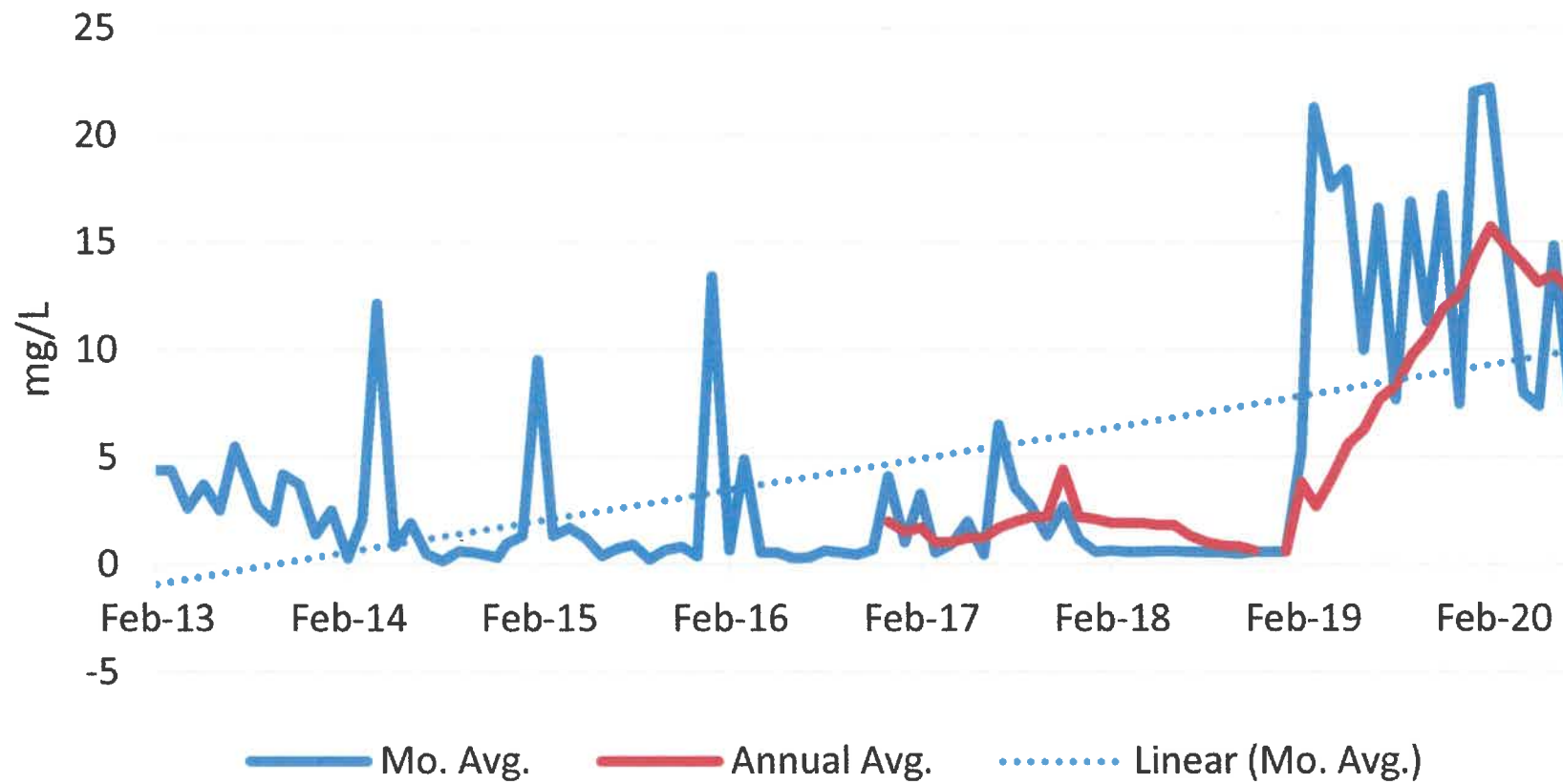
# Total Nitrogen

DATE	Mo. Avg.	Annual Avg.	Limit
Jan-13	8.874		Report
Feb-13	4.393		Report
Mar-13	4.393		Report
Apr-13	2.616		Report
May-13	3.697		Report
Jun-13	2.5		Report
Jul-13	5.5		Report
Aug-13	2.70		Report
Sep-13	2.00		Report
Oct-13	4.20		Report
Nov-13	3.7		Report
Dec-13	1.40		Report
Jan-14	2.5		Report
Feb-14	0.26		Report
Mar-14	2.10		Report
Apr-14	12.10		Report
May-14	0.83		Report
Jun-14	1.90		Report
Jul-14	0.45		Report
Aug-14	0.13		Report
Sep-14	0.59		Report
Oct-14	0.52		Report
Nov-14	0.31		Report
Dec-14	0.91		Report
Jan-15	1.30		Report
Feb-15	9.50		Report
Mar-15	1.30		Report
Apr-15	1.70		Report
May-15	1.20		Report
Jun-15	0.38		Report
Jul-15	0.71		Report
Aug-15	0.90		Report
Sep-15	0.20		Report
Oct-15	0.63		Report
Nov-15	0.78		Report
Dec-15	0.35		Report
Jan-16	13.40		Report
Feb-16	0.63		Report
Mar-16	4.90		Report
Apr-16	0.52		Report
May-16	0.52		Report
Jun-16	0.28		Report
Jul-16	0.29		Report
Aug-16	0.62		Report
Sep-16	0.53		Report
Oct-16	0.43		Report
Nov-16	0.70		Report
Dec-16	4.10	2.00	Report

Jan-17	0.99	1.50	Report
Feb-17	3.30	1.70	Report
Mar-17	0.51	1.00	Report
Apr-17	0.90	1.00	Report
May-17	2.00	1.20	Report
Jun-17	0.44	1.20	Report
Jul-17	6.50	1.70	Report
Aug-17	3.60	2.00	Report
Sep-17	2.70	2.20	Report
Oct-17	1.30	2.20	Report
Nov-17	2.70	4.40	Report
Dec-17	1.13	2.20	Report
Jan-18	0.55	2.10	Report
Feb-18	0.60	1.90	Report
Mar-18	0.55	1.90	Report
Apr-18	0.56	1.90	Report
May-18	0.59	1.80	Report
Jun-18	0.59	1.80	Report
Jul-18	0.56	1.30	Report
Aug-18	0.54	1.00	Report
Sep-18	0.53	0.85	Report
Oct-18	0.45	0.78	Report
Nov-18	0.55	0.60	Report
Dec-18	0.57		Report
Jan-19	0.57	0.55	Report
Feb-19	5.30	3.80	Report
Mar-19	21.30	2.70	Report
Apr-19	17.60	4.10	Report
May-19	18.40	5.60	Report
Jun-19	10.00	6.30	Report
Jul-19	16.60	7.70	Report
Aug-19	7.70	8.30	Report
Sep-19	16.90	9.70	Report
Oct-19	11.30	10.60	Report
Nov-19	17.20	11.90	Report
Dec-19	7.50	12.50	Report
Jan-20	22.00	14.30	Report
Feb-20	22.20	15.70	Report
Mar-20	15.10	14.80	Report
Apr-20	8.00	14.00	Report
May-20	7.40	13.10	Report
Jun-20	14.80	13.50	Report
Jul-20	7.60	12.70	Report
Aug-20	15.60	13.40	Report
Sep-20	10.30	12.80	Report
Oct-20	22.00	13.70	Report
Nov-20	14.70	13.50	Report
Dec-20	8.20	13.60	Report

DNP

## Total Nitrogen Results and Trending



# Total Phosphorus

DATE	Mo. Avg.	Limit
Jan-13	1.275	Report
Feb-13	2.604	Report
Mar-13	2.604	Report
Apr-13	3.709	Report
May-13	3.987	Report
Jun-13	3.100	Report
Jul-13	2.400	Report
Aug-13	5.300	Report
Sep-13	1.600	Report
Oct-13	2.900	Report
Nov-13	3.200	Report
Dec-13	0.300	Report
Jan-14	0.420	Report
Feb-14	0.072	Report
Mar-14	0.880	Report
Apr-14	1.500	Report
May-14	0.710	Report
Jun-14	1.400	Report
Jul-14	0.260	Report
Aug-14	0.065	Report
Sep-14	0.180	Report
Oct-14	0.110	Report
Nov-14	0.860	Report
Dec-14	0.250	Report
Jan-15	0.180	Report
Feb-15	1.100	Report
Mar-15	0.110	Report
Apr-15	0.093	Report
May-15	0.220	Report
Jun-15	0.110	Report
Jul-15	0.290	Report
Aug-15	0.320	Report
Sep-15	0.130	Report
Oct-15	0.300	Report
Nov-15	0.320	Report
Dec-15	0.150	Report
Jan-16	3.50	Report
Feb-16	0.59	Report
Mar-16	4.90	Report
Apr-16	0.28	Report
May-16	0.24	Report
Jun-16	0.14	Report
Jul-16	0.13	Report
Aug-16	0.33	Report
Sep-16	0.25	Report
Oct-16	0.24	Report
Nov-16	0.31	Report
Dec-16	1.18	Report

Jan-17	0.28	Report
Feb-17	1.10	Report
Mar-17	0.32	Report
Apr-17	0.46	Report
May-17	0.65	Report
Jun-17	0.20	Report
Jul-17	1.90	Report
Aug-17	1.20	Report
Sep-17	0.52	Report
Oct-17	0.37	Report
Nov-17	1.30	Report
Dec-17	0.27	Report
Jan-18	0.29	Report
Feb-18	0.27	Report
Mar-18	0.26	Report
Apr-18	0.25	Report
May-18	0.25	Report
Jun-18	0.27	Report
Jul-18	0.24	Report
Aug-18	0.24	Report
Sep-18	0.28	Report
Oct-18	0.27	Report
Nov-18	0.25	Report
Dec-18	0.29	Report
Jan-19	0.29	Report
Feb-19	1.50	Report
Mar-19	4.30	Report
Apr-19	3.90	Report
May-19	2.30	Report
Jun-19	2.90	Report
Jul-19	3.70	Report
Aug-19	1.70	Report
Sep-19	1.90	Report
Oct-19	2.20	Report
Nov-19	7.00	Report
Dec-19	2.40	Report
Jan-20	5.30	Report
Feb-20	5.30	Report
Mar-20	5.90	Report
Apr-20	4.70	Report
May-20	4.70	Report
Jun-20	4.50	Report
Jul-20	2.40	Report
Aug-20	3.40	Report
Sep-20	1.90	Report
Oct-20	3.80	Report
Nov-20	2.20	Report
Dec-20	1.60	Report



**Biosolids (dry tons)**

**As reported by the operating group.**

DATE	Transferred	Landfilled
Dec-16	2.92	0.00
Jan-17	4.00	0.00
Feb-17	1.33	0.00
Mar-17	2.67	0.00
Apr-17	2.67	0.00
May-17	1.33	0.00
Jun-17	4.00	0.00
Jul-17	1.33	0.00
Aug-17	1.33	0.00
Sep-17	1.33	0.00
Oct-17	1.33	0.00
Nov-17	1.33	0.00
Dec-17	1.33	0.00
Jan-18	1.33	0.00
Feb-18	1.33	0.00
Mar-18	1.33	0.00
Apr-18	1.33	0.00
May-18	1.33	0.00
Jun-18	1.33	0.00
Jul-18	2.67	0.00
Aug-18	2.00	0.00
Sep-18	1.33	0.00
Oct-18	2.67	0.00
Nov-18	1.33	0.00
Dec-18	2.67	0.00
Jan-19	2.67	0.00
Feb-19	0.00	0.00
Mar-19	0.00	0.00
Apr-19	1.67	0.00
May-19	1.33	0.00
Jun-19	1.33	0.00
Jul-19	2.34	0.00
Aug-19	1.33	0.00
Sep-19	1.33	0.00
Oct-19	1.33	0.00
Nov-19	1.33	0.00
Dec-19	1.33	0.00
Jan-20	1.33	0.00
Feb-20	1.33	0.00
Mar-20	0.67	0.00
Apr-20	1.00	0.00
May-20	1.00	0.00
Jun-20	0.67	0.00
Jul-20	0.67	0.00
Aug-20	0.67	0.00
Sep-20	1.00	0.00
Oct-20	1.33	0.00
Nov-20	0.00	0.00
Dec-20	0.00	0.00

## Groundwater Nitrate/Nitrite Results

Date	MW-1 (BG)	MW-2	MW-3	MW-4	MW-5	MW-6	Limit
9/29/1998	0.5	0.5	0.5		0.5	3.4	10
12/15/1998	0.5	0.5	0.5		0.6	3.7	10
3/22/1999	0.8	13.7	1.5	0.9	15.22	10.4	10
6/21/1999	0.7	6.8	1.8	1.1	9.2	7.2	10
9/30/1999	0.8	6	1.3	0.9	8	7.7	10
11/8/1999		1.02	0.68	31.8	1.2	12.3	10
2/14/2000	5.9	2	1.3	1.2	1.8	1.2	10
4/20/2000	10.8	5.5	2.6	4.9	6.2	6.6	10
7/18/2000	26	10.3			3.6	3.7	10
12/20/2000	4.9	0.87	4	6.7	0.7	9.1	10
3/1/2001	7.2	1.5	3.7	6.4	2.6	8.3	10
5/15/2001	7.3	33.6			9.6	32	10
9/18/2001	5.42	3.24	7.77	8.32	0.76	1.14	10
12/3/2001	1.8	0.7	3.5	1.7	0.7	19.5	10
2/1/2002	2.3	1.2	2.8	2.1	1.1	5.5	10
6/26/2002	4.9	3.7	3.4	4.05	3.2	4.6	10
9/24/2002	2.75	2.06	2.58	2.23	1.28	3.78	10
12/26/2002	2.74	0.19	0.62	0.27	1.72	2.71	10
7/8/2004	0.018	0.0091	0.54		0.3	2.5	10
10/24/2004	0.24	0.0091	2.8	0.0091	1.5	0.0091	10
2/21/2005	0.014	0.0091	14		0.13	9.4	10
6/1/2005	0.11			2.6	0.055	0.56	10
8/8/2005	0.0091	0.0091			0.021	0.0091	10
11/4/2005	0.24	0.025			0.32	40	10
2/8/2006	28	0.018			0.15	0.028	10
5/12/2006	0.91	0.11			0.033	0.68	10
8/2/2006	1.9	0.018			0.0091		10
11/13/2006	0.018	1.9			0.018		10
3/2/2007	0.22	0.046		0.046	0.018		10
5/2/2007	11	0.018			0.011	0.018	10
7/6/2007	0.04	0.8			0.39	0.43	10
10/10/2007	0.33	4.1		0.075	10	16	10
1/11/2008	0.02	0.66		0.02	3.4	0.02	10
4/4/2008	0.01	0.84		0.013	2.8	6.9	10
7/2/2008	0.073	0.66		0.023	1.4	0.15	10
10/10/2008	0.023	1.8		0.012	0.51	0.023	10
1/2/2009	0.023	0.023		0.099	0.085	0.023	10
6/18/2009	2.3	0.22		0.067	0.067	0.10	10
7/23/2009	0.025	0.025		0.0125	0.50	0.26	10
10/14/2009	0.190	0.63		0.0125	0.095	0.0125	10
3/31/2010	3.400	0.84	2.0	0.0125	0.130	0.0125	10
6/30/2010							10
9/16/2010	4.800	0.025	6.4	0.025	0.025	5.6	10
12/27/2010	0.200	2.4	10.5	10.9	0.0125	16.4	10
2/7/2011	7.900	0.47	13.4	0.36	0.140	27.5	10
4/28/2011	8.200	0.0125	1.7	0.0125	0.0125	3	10
8/8/2011	4.600	2.4	8.5	7.9	0.0125	0.29	10
12/31/2011	2.9	0.0125	14	0.0125	0.092	7.8	10
3/31/2012	2.7	1.4	14.9	0.35	0.17	0.57	10
6/30/2012	0.82	3.2		0.79	0.0025	0.28	10
9/30/2012	0.025	0.0125		0.025	0.0125	7.3	10
12/31/2012	0.05	2.3	1.9	0.025	0.84	1.3	10

3/31/2013	1.1	1.2	8.7	0.025	0.04	3.0	10
6/30/2013	0.16	0.0125			0.29	0.52	10
9/30/2013	16.8	0.025	1.4	0.025	0.025	4.5	10
12/31/2013	3.7	0.029	1.5	0.029	0.029	1.1	10
3/31/2014	4.7	0.062	3.6	0.043	0.7	4.7	10
6/30/2014	3.8	1.2	5.5	0.043	0.84	9.6	10
9/30/2014	0.42	0.19	3.5	0.043	2.4	0.7	10
12/31/2014	0.0125	0.025	3.6	0.0125	2.8	0.87	10
3/31/2015	4.8	0.067	10.2	0.0125	0.74	0.19	10
6/30/2015	1.1	0.79	17.6	0.036	0.42	0.0125	10
9/30/2015	4.2	0.0125	2		0.19	0.3	10
12/31/2015	0.16	0.025	18.1	0.0125	0.043	0.025	10
3/31/2016	0.12	1.8	0.025	0.0125	0.054	0.19	10
6/30/2016	0.025	0.025	1.7	0.025	0.077	0.12	10
9/30/2016	0.110	0.1200	5.500	0.0340	0.025	0.310	10
12/31/2016	0.025	0.0250	15.000		0.025	4.900	10
3/31/2017	0.190	0.0360	6.100		0.230	0.210	10
6/30/2017	0.790	0.0850	4.600	0.0250	0.037	0.036	10
9/30/2017	0.025	0.0250	0.025	0.0250	11.200	0.140	10
12/31/2017	0.046	0.0250	4.200	0.0250	0.025	0.025	10
3/31/2018	0.025	0.3400	7.800	0.0250	0.025	0.025	10
6/30/2018	0.025	0.0250	0.940	0.0250	0.025	0.025	10
9/30/2018	0.150	0.0370	1.500	0.0250	0.025	0.025	10
12/31/2018	0.069	0.5000	5.600	0.0250	0.025	0.025	10
3/31/2019	2.800	0.1300	7.900	0.0250	0.078	0.940	10
6/30/2019	5.800	0.0250	5.600	0.0250	0.540	1.300	10
9/30/2019	12.000	0.3100	6.700	0.0250	0.025	16.500	10
12/31/2019	0.066	0.0250	0.310	0.0250	0.025	1.600	10
3/31/2020	5.500	1.7000	11.400	0.0250	0.025	18.300	10
6/30/2020	10.300	4.2000	16.700	0.0860	0.058	10.100	10
9/30/2020	1.30	0.920	6.200	0.025	0.025	2.100	10
12/31/2020	0.62	3.200	2.700	0.025	0.025	2.500	10

## Nitrate/Nitrite Results

Date	MW-1 (BG)	Limit
9/29/1998	0.500	Report
12/15/1998	0.500	Report
3/22/1999	0.800	Report
6/21/1999	0.700	Report
9/30/1999	0.800	Report
11/8/1999		Report
2/14/2000	5.900	Report
4/20/2000	10.800	Report
7/18/2000	26.000	Report
12/20/2000	4.900	Report
3/1/2001	7.200	Report
5/15/2001	7.300	Report
9/18/2001	5.420	Report
12/3/2001	1.800	Report
2/1/2002	2.300	Report
6/26/2002	4.900	Report
9/24/2002	2.750	Report
12/26/2002	2.740	Report
7/8/2004	0.018	Report
10/24/2004	0.240	Report
2/21/2005	0.014	Report
6/1/2005	0.110	Report
8/8/2005	0.009	Report
11/4/2005	0.240	Report
2/8/2006	28.000	Report
5/12/2006	0.910	Report
8/2/2006	1.900	Report
11/13/2006	0.018	Report
3/2/2007	0.220	Report
5/2/2007	11.000	Report
7/6/2007	0.040	Report
10/10/2007	0.330	Report
1/11/2008	0.020	Report
4/4/2008	0.010	Report
7/2/2008	0.073	Report
10/10/2008	0.023	Report
1/2/2009	0.023	Report
6/18/2009	2.300	Report
7/23/2009	0.025	Report
10/14/2009	0.190	Report
3/31/2010	3.400	Report
6/30/2010		Report
9/16/2010	4.800	Report
12/27/2010	0.200	Report
2/7/2011	7.900	Report
4/28/2011	8.200	Report
8/8/2011	4.600	Report
12/31/2011	2.900	Report
3/31/2012	2.700	Report
6/30/2012	0.820	Report
9/30/2012	0.025	Report
12/31/2012	0.050	Report
3/31/2013	1.100	Report

6/30/2013	0.160	Report
9/30/2013	16.800	Report
12/31/2013	3.700	Report
3/31/2014	4.700	Report
6/30/2014	3.800	Report
9/30/2014	0.420	Report
12/31/2014	0.013	Report
3/31/2015	4.800	Report
6/30/2015	1.100	Report
9/30/2015	4.200	Report
12/31/2015	0.160	Report
3/31/2016	0.120	Report
6/30/2016	0.025	Report
9/30/2016	0.110	Report
12/31/2016	0.025	Report
3/31/2017	0.190	Report
6/30/2017	0.790	Report
9/30/2017	0.025	Report
12/31/2017	0.046	Report
3/31/2018	0.025	Report
6/30/2018	0.025	Report
9/30/2018	0.150	Report
12/31/2018	0.069	Report
3/31/2019	2.800	Report
6/30/2019	5.800	Report
9/30/2019	12.000	Report
12/31/2019	0.066	Report
3/31/2020	5.500	Report
6/30/2020	10.300	Report
9/30/2020	1.30	Report
12/31/2020	0.62	Report



## Nitrate/Nitrite Results

Date	MW-2	Limit
9/29/1998	0.500	10.0
12/15/1998	0.500	10.0
3/22/1999	13.700	10.0
6/21/1999	6.800	10.0
9/30/1999	6.000	10.0
11/8/1999	1.020	10.0
2/14/2000	2.000	10.0
4/20/2000	5.500	10.0
7/18/2000	10.300	10.0
12/20/2000	0.870	10.0
3/1/2001	1.500	10.0
5/15/2001	33.600	10.0
9/18/2001	3.240	10.0
12/3/2001	0.700	10.0
2/1/2002	1.200	10.0
6/26/2002	3.700	10.0
9/24/2002	2.060	10.0
12/26/2002	0.190	10.0
7/8/2004	0.009	10.0
10/24/2004	0.009	10.0
2/21/2005	0.009	10.0
6/1/2005		10.0
8/8/2005	0.009	10.0
11/4/2005	0.025	10.0
2/8/2006	0.018	10.0
5/12/2006	0.110	10.0
8/2/2006	0.018	10.0
11/13/2006	1.900	10.0
3/2/2007	0.046	10.0
5/2/2007	0.018	10.0
7/6/2007	0.800	10.0
10/10/2007	4.100	10.0
1/11/2008	0.660	10.0
4/4/2008	0.840	10.0
7/2/2008	0.660	10.0
10/10/2008	1.800	10.0
1/2/2009	0.023	10.0
6/18/2009	0.220	10.0
7/23/2009	0.025	10.0
10/14/2009	0.630	10.0
3/31/2010	0.840	10.0
6/30/2010		10.0
9/16/2010	0.025	10.0
12/27/2010	2.400	10.0
2/7/2011	0.470	10.0
4/28/2011	0.013	10.0
8/8/2011	2.400	10.0
12/31/2011	0.013	10.0
3/31/2012	1.400	10.0
6/30/2012	3.200	10.0
9/30/2012	0.013	10.0
12/31/2012	2.300	10.0
3/31/2013	1.200	10.0

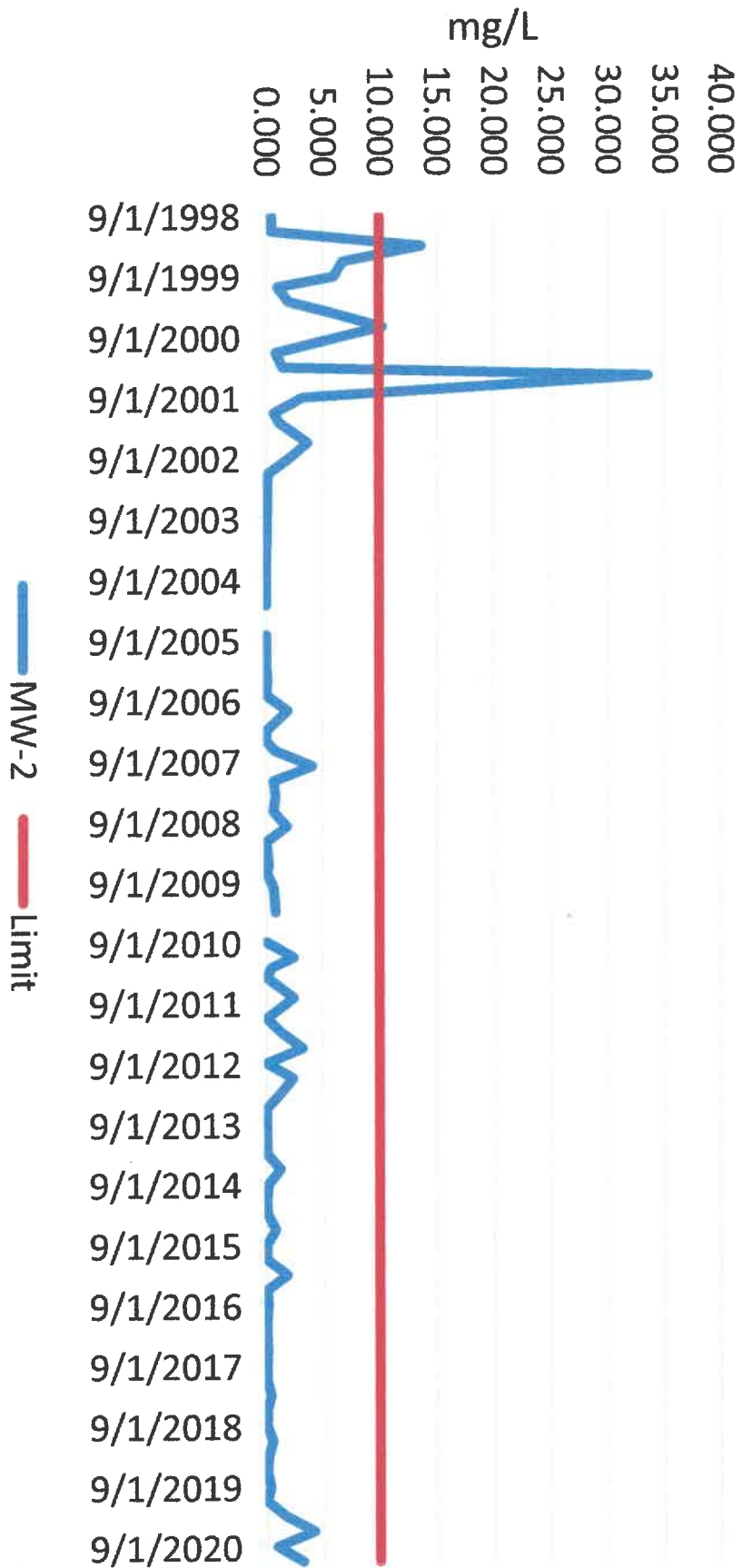
## Nitrate/Nitrite Results

Date	MW-3R	Limit
9/29/1998	0.500	10.0
12/15/1998	0.500	10.0
3/22/1999	1.500	10.0
6/21/1999	1.800	10.0
9/30/1999	1.300	10.0
11/8/1999	0.680	10.0
2/14/2000	1.300	10.0
4/20/2000	2.600	10.0
7/18/2000		10.0
12/20/2000	4.000	10.0
3/1/2001	3.700	10.0
5/15/2001		10.0
9/18/2001	7.770	10.0
12/3/2001	3.500	10.0
2/1/2002	2.800	10.0
6/26/2002	3.400	10.0
9/24/2002	2.580	10.0
12/26/2002	0.620	10.0
7/8/2004	0.540	10.0
10/24/2004	2.800	10.0
2/21/2005	14.000	10.0
6/1/2005		10.0
8/8/2005		10.0
11/4/2005		10.0
2/8/2006		10.0
5/12/2006		10.0
8/2/2006		10.0
11/13/2006		10.0
3/2/2007		10.0
5/2/2007		10.0
7/6/2007		10.0
10/10/2007		10.0
1/11/2008		10.0
4/4/2008		10.0
7/2/2008		10.0
10/10/2008		10.0
1/2/2009		10.0
6/18/2009		10.0
7/23/2009		10.0
10/14/2009		10.0
3/31/2010	2.000	10.0
6/30/2010		10.0
9/16/2010	6.400	10.0
12/27/2010	10.500	10.0
2/7/2011	13.400	10.0
4/28/2011	1.700	10.0
8/8/2011	8.500	10.0
12/31/2011	14.000	10.0
3/31/2012	14.900	10.0
6/30/2012		10.0
9/30/2012		10.0
12/31/2012	1.900	10.0
3/31/2013	8.700	10.0

6/30/2013	0.013	10.0
9/30/2013	0.025	10.0
12/31/2013	0.029	10.0
3/31/2014	0.062	10.0
6/30/2014	1.200	10.0
9/30/2014	0.190	10.0
12/31/2014	0.025	10.0
3/31/2015	0.067	10.0
6/30/2015	0.790	10.0
9/30/2015	0.013	10.0
12/31/2015	0.025	10.0
3/31/2016	1.800	10.0
6/30/2016	0.0250	10.0
9/30/2016	0.1200	10.0
12/31/2016	0.0250	10.0
3/31/2017	0.0360	10.0
6/30/2017	0.0850	10.0
9/30/2017	0.0250	10.0
12/31/2017	0.0250	10.0
3/31/2018	0.3400	10.0
6/30/2018	0.0250	10.0
9/30/2018	0.0370	10.0
12/31/2018	0.5000	10.0
3/31/2019	0.1300	10.0
6/30/2019	0.0250	10.0
9/30/2019	0.3100	10.0
12/31/2019	0.0250	10.0
3/31/2020	1.7000	10.0
6/30/2020	4.2000	10.0
9/30/2020	0.920	10.0
12/31/2020	3.200	10.0

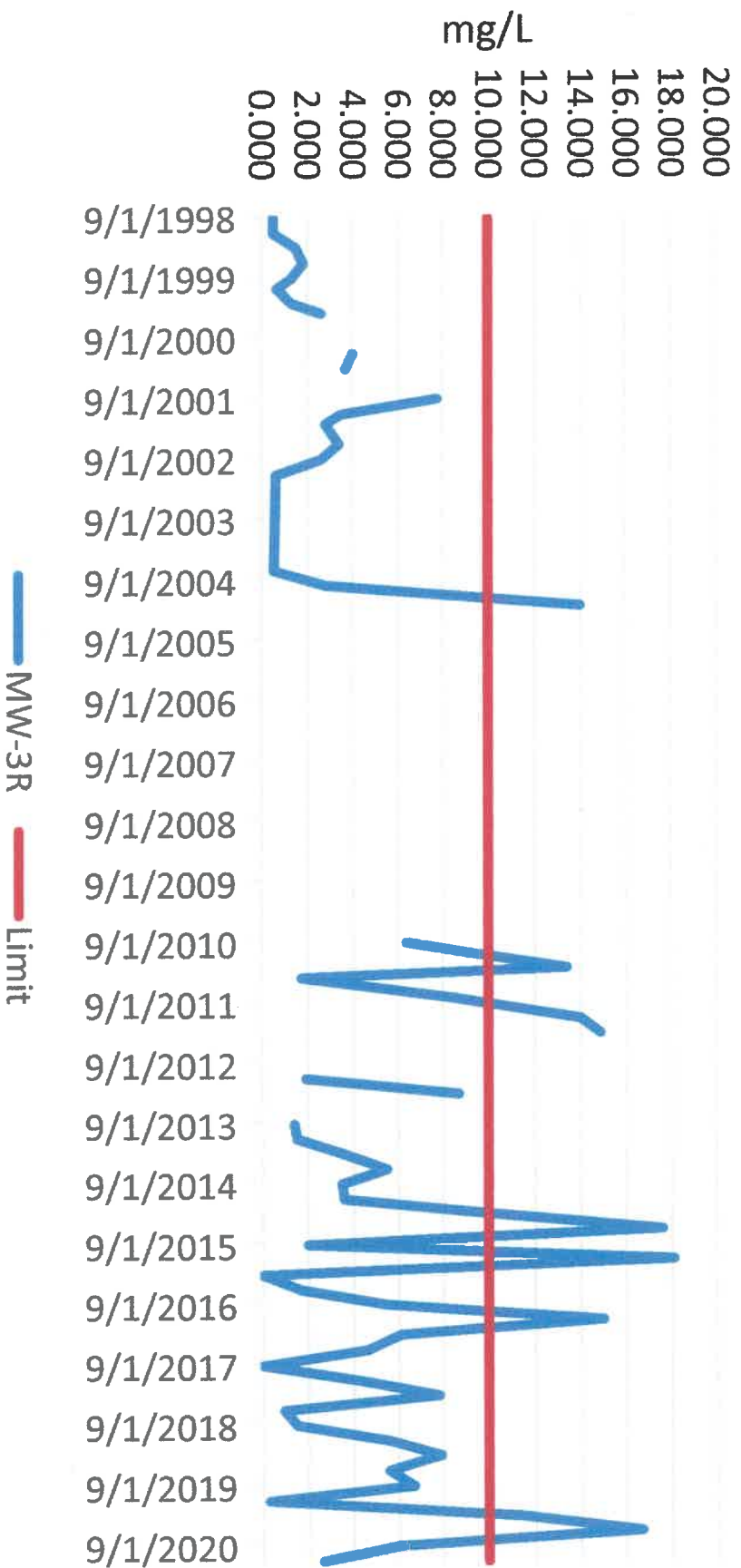
6/30/2013		10.0
9/30/2013	1.400	10.0
12/31/2013	1.500	10.0
3/31/2014	3.600	10.0
6/30/2014	5.500	10.0
9/30/2014	3.500	10.0
12/31/2014	3.600	10.0
3/31/2015	10.200	10.0
6/30/2015	17.600	10.0
9/30/2015	2.000	10.0
12/31/2015	18.100	10.0
3/31/2016	0.025	10.0
6/30/2016	1.700	10.0
9/30/2016	5.500	10.0
12/31/2016	15.000	10.0
3/31/2017	6.100	10.0
6/30/2017	4.600	10.0
9/30/2017	0.025	10.0
12/31/2017	4.200	10.0
3/31/2018	7.800	10.0
6/30/2018	0.940	10.0
9/30/2018	1.500	10.0
12/31/2018	5.600	10.0
3/31/2019	7.900	10.0
6/30/2019	5.600	10.0
9/30/2019	6.700	10.0
12/31/2019	0.310	10.0
3/31/2020	11.400	10.0
6/30/2020	16.700	10.0
9/30/2020	6.200	10.0
12/31/2020	2.700	10.0

## MW-2 Nitrate/Nitrite Results





## MW-3R Nitrate/Nitrite Results



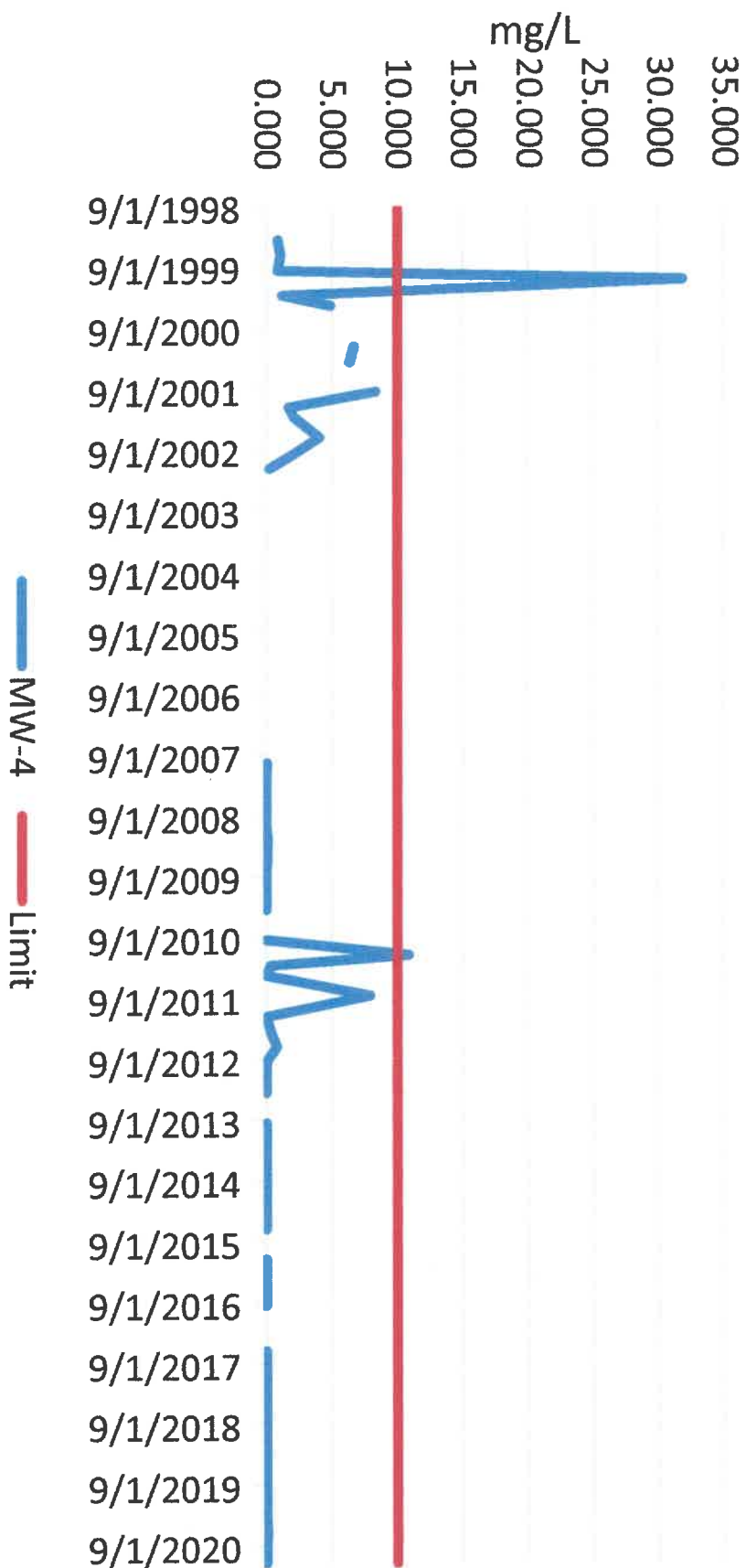
Nitrate/Nitrite Results

Date	MW-4	Limit
9/29/1998		10.0
12/15/1998		10.0
3/22/1999	0.900	10.0
6/21/1999	1.100	10.0
9/30/1999	0.900	10.0
11/8/1999	31.800	10.0
2/14/2000	1.200	10.0
4/20/2000	4.900	10.0
7/18/2000		10.0
12/20/2000	6.700	10.0
3/1/2001	6.400	10.0
5/15/2001		10.0
9/18/2001	8.320	10.0
12/3/2001	1.700	10.0
2/1/2002	2.100	10.0
6/26/2002	4.050	10.0
9/24/2002	2.230	10.0
12/26/2002	0.270	10.0
7/8/2004		10.0
10/24/2004	0.009	10.0
2/21/2005		10.0
6/1/2005	2.600	10.0
8/8/2005		10.0
11/4/2005		10.0
2/8/2006		10.0
5/12/2006		10.0
8/2/2006		10.0
11/13/2006		10.0
3/2/2007	0.046	10.0
5/2/2007		10.0
7/6/2007		10.0
10/10/2007	0.075	10.0
1/11/2008	0.020	10.0
4/4/2008	0.013	10.0
7/2/2008	0.023	10.0
10/10/2008	0.012	10.0
1/2/2009	0.099	10.0
6/18/2009	0.067	10.0
7/23/2009	0.013	10.0
10/14/2009	0.013	10.0
3/31/2010	0.013	10.0
6/30/2010		10.0
9/16/2010	0.025	10.0
12/27/2010	10.900	10.0
2/7/2011	0.360	10.0
4/28/2011	0.013	10.0
8/8/2011	7.900	10.0
12/31/2011	0.013	10.0
3/31/2012	0.350	10.0
6/30/2012	0.790	10.0
9/30/2012	0.025	10.0
12/31/2012	0.025	10.0
3/31/2013	0.025	10.0

6/30/2013		10.0
9/30/2013	0.025	10.0
12/31/2013	0.029	10.0
3/31/2014	0.043	10.0
6/30/2014	0.043	10.0
9/30/2014	0.043	10.0
12/31/2014	0.013	10.0
3/31/2015	0.013	10.0
6/30/2015	0.036	10.0
9/30/2015		10.0
12/31/2015	0.013	10.0
3/31/2016	0.013	10.0
6/30/2016	0.0250	10.0
9/30/2016	0.0340	10.0
12/31/2016		10.0
3/31/2017		10.0
6/30/2017	0.0250	10.0
9/30/2017	0.0250	10.0
12/31/2017	0.0250	10.0
3/31/2018	0.0250	10.0
6/30/2018	0.0250	10.0
9/30/2018	0.0250	10.0
12/31/2018	0.0250	10.0
3/31/2019	0.0250	10.0
6/30/2019	0.0250	10.0
9/30/2019	0.0250	10.0
12/31/2019	0.0250	10.0
3/31/2020	0.0250	10.0
6/30/2020	0.0860	10.0
9/30/2020	0.025	10.0
12/31/2020	0.025	10.0

DNP  
DNP

## MW-4 Nitrate/Nitrite Results

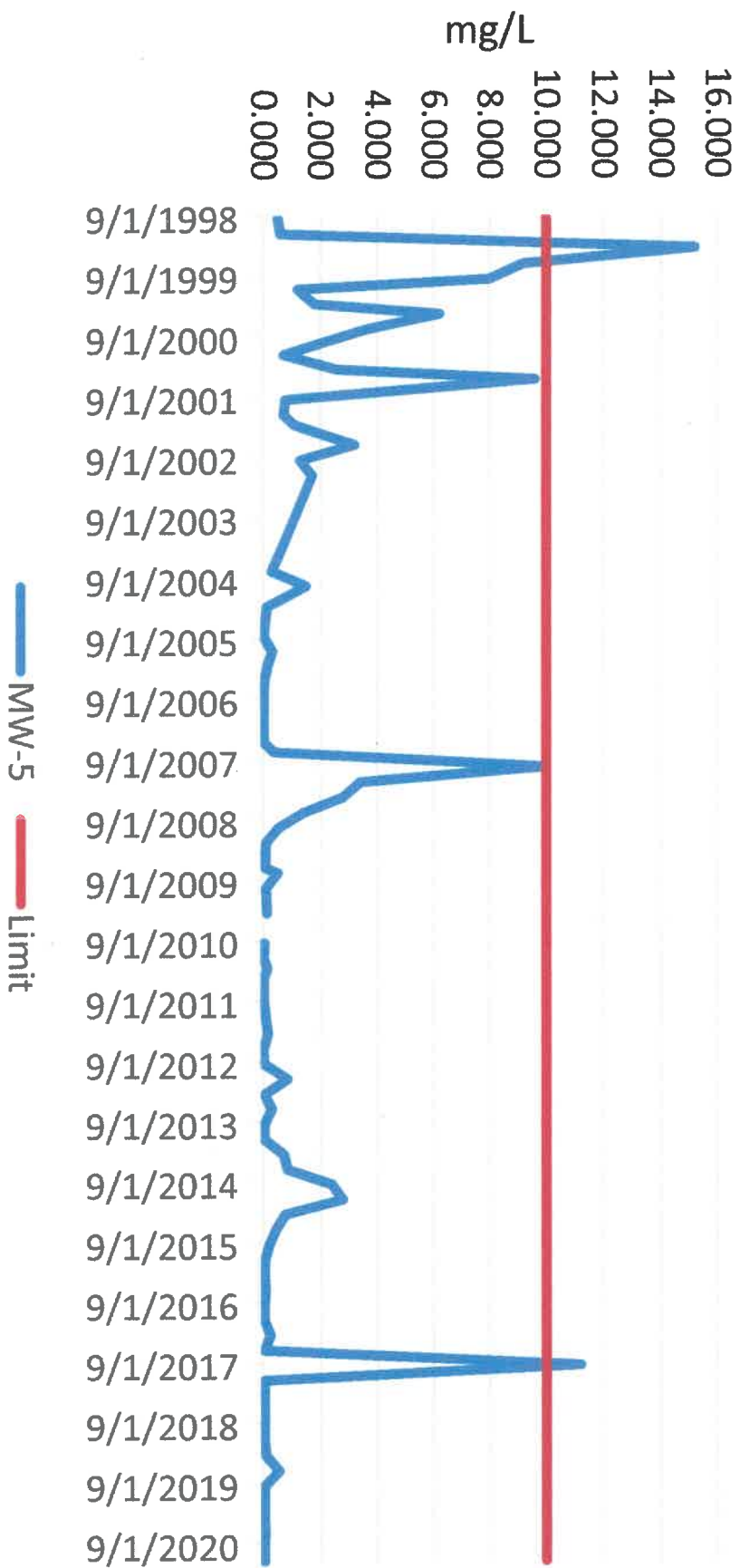


## Nitrate/Nitrite Results

Date	MW-5	Limit
9/29/1998	0.500	10.0
12/15/1998	0.600	10.0
3/22/1999	15.220	10.0
6/21/1999	9.200	10.0
9/30/1999	8.000	10.0
11/8/1999	1.200	10.0
2/14/2000	1.800	10.0
4/20/2000	6.200	10.0
7/18/2000	3.600	10.0
12/20/2000	0.700	10.0
3/1/2001	2.600	10.0
5/15/2001	9.600	10.0
9/18/2001	0.760	10.0
12/3/2001	0.700	10.0
2/1/2002	1.100	10.0
6/26/2002	3.200	10.0
9/24/2002	1.280	10.0
12/26/2002	1.720	10.0
7/8/2004	0.300	10.0
10/24/2004	1.500	10.0
2/21/2005	0.130	10.0
6/1/2005	0.055	10.0
8/8/2005	0.021	10.0
11/4/2005	0.320	10.0
2/8/2006	0.150	10.0
5/12/2006	0.033	10.0
8/2/2006	0.009	10.0
11/13/2006	0.018	10.0
3/2/2007	0.018	10.0
5/2/2007	0.011	10.0
7/6/2007	0.390	10.0
10/10/2007	10.000	10.0
1/11/2008	3.400	10.0
4/4/2008	2.800	10.0
7/2/2008	1.400	10.0
10/10/2008	0.510	10.0
1/2/2009	0.085	10.0
6/18/2009	0.067	10.0
7/23/2009	0.500	10.0
10/14/2009	0.095	10.0
3/31/2010	0.130	10.0
6/30/2010		10.0
9/16/2010	0.025	10.0
12/27/2010	0.013	10.0
2/7/2011	0.140	10.0
4/28/2011	0.013	10.0
8/8/2011	0.013	10.0
12/31/2011	0.092	10.0
3/31/2012	0.170	10.0
6/30/2012	0.003	10.0
9/30/2012	0.013	10.0
12/31/2012	0.840	10.0
3/31/2013	0.040	10.0

6/30/2013	0.290	10.0
9/30/2013	0.025	10.0
12/31/2013	0.029	10.0
3/31/2014	0.700	10.0
6/30/2014	0.840	10.0
9/30/2014	2.400	10.0
12/31/2014	2.800	10.0
3/31/2015	0.740	10.0
6/30/2015	0.420	10.0
9/30/2015	0.190	10.0
12/31/2015	0.043	10.0
3/31/2016	0.054	10.0
6/30/2016	0.077	10.0
9/30/2016	0.025	10.0
12/31/2016	0.025	10.0
3/31/2017	0.230	10.0
6/30/2017	0.037	10.0
9/30/2017	11.200	10.0
12/31/2017	0.025	10.0
3/31/2018	0.025	10.0
6/30/2018	0.025	10.0
9/30/2018	0.025	10.0
12/31/2018	0.025	10.0
3/31/2019	0.078	10.0
6/30/2019	0.540	10.0
9/30/2019	0.025	10.0
12/31/2019	0.025	10.0
3/31/2020	0.025	10.0
6/30/2020	0.058	10.0
9/30/2020	0.025	10.0
12/31/2020	0.025	10.0

## MW-5 Nitrate/Nitrite Results



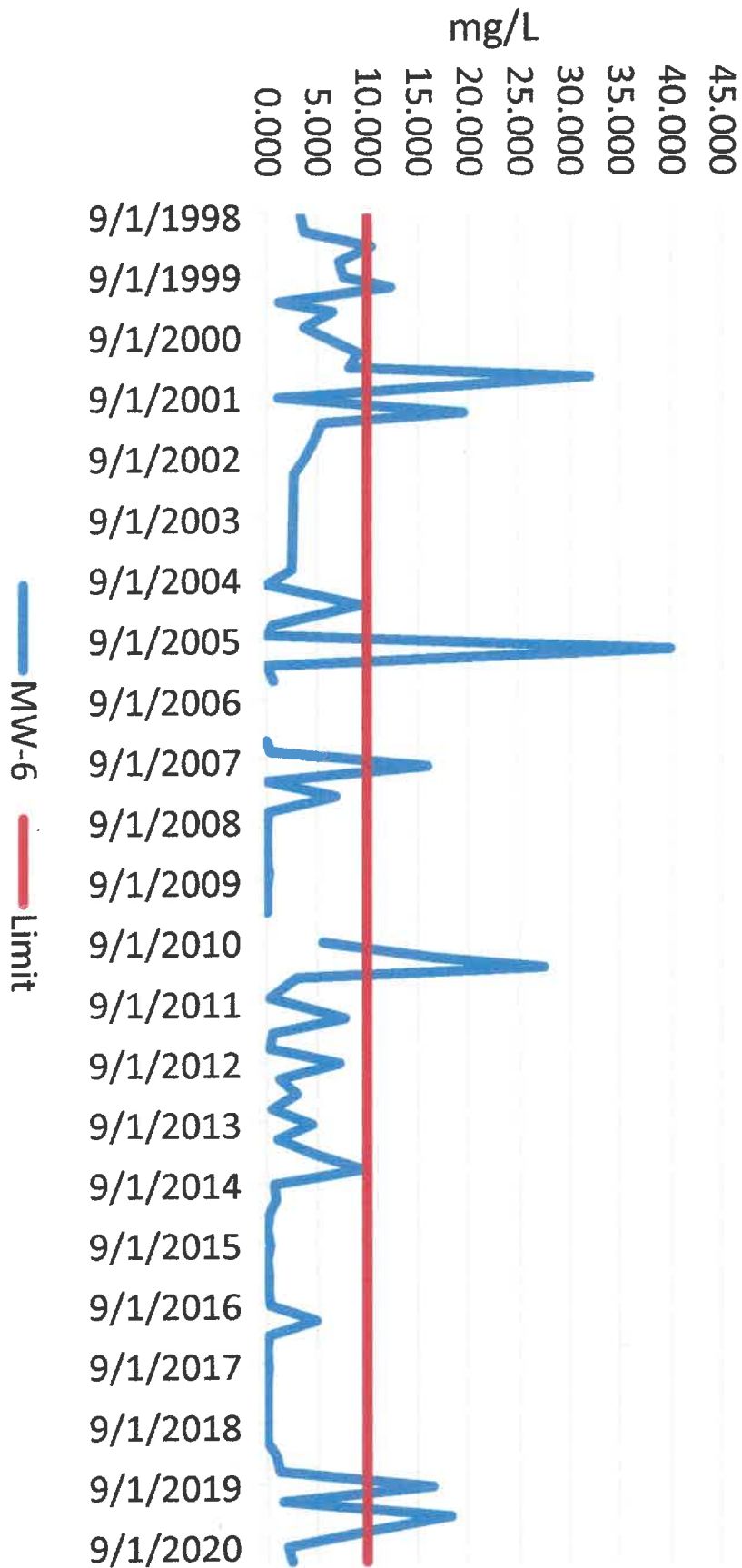
# Nitrate/Nitrite Results

Date	MW-6	Limit
9/29/1998	3.400	10.0
12/15/1998	3.700	10.0
3/22/1999	10.400	10.0
6/21/1999	7.200	10.0
9/30/1999	7.700	10.0
11/8/1999	12.300	10.0
2/14/2000	1.200	10.0
4/20/2000	6.600	10.0
7/18/2000	3.700	10.0
12/20/2000	9.100	10.0
3/1/2001	8.300	10.0
5/15/2001	32.000	10.0
9/18/2001	1.140	10.0
12/3/2001	19.500	10.0
2/1/2002	5.500	10.0
6/26/2002	4.600	10.0
9/24/2002	3.780	10.0
12/26/2002	2.710	10.0
7/8/2004	2.500	10.0
10/24/2004	0.009	10.0
2/21/2005	9.400	10.0
6/1/2005	0.560	10.0
8/8/2005	0.009	10.0
11/4/2005	40.000	10.0
2/8/2006	0.028	10.0
5/12/2006	0.680	10.0
8/2/2006		10.0
11/13/2006		10.0
3/2/2007		10.0
5/2/2007	0.018	10.0
7/6/2007	0.430	10.0
10/10/2007	16.000	10.0
1/11/2008	0.020	10.0
4/4/2008	6.900	10.0
7/2/2008	0.150	10.0
10/10/2008	0.023	10.0
1/2/2009	0.023	10.0
6/18/2009	0.100	10.0
7/23/2009	0.260	10.0
10/14/2009	0.013	10.0
3/31/2010	0.013	10.0
6/30/2010		10.0
9/16/2010	5.600	10.0
12/27/2010	16.400	10.0
2/7/2011	27.500	10.0
4/28/2011	3.000	10.0
8/8/2011	0.290	10.0
12/31/2011	7.800	10.0
3/31/2012	0.570	10.0
6/30/2012	0.280	10.0
9/30/2012	7.300	10.0
12/31/2012	1.300	10.0
3/31/2013	3.000	10.0



6/30/2013	0.520	10.0
9/30/2013	4.500	10.0
12/31/2013	1.100	10.0
3/31/2014	4.700	10.0
6/30/2014	9.600	10.0
9/30/2014	0.700	10.0
12/31/2014	0.870	10.0
3/31/2015	0.190	10.0
6/30/2015	0.013	10.0
9/30/2015	0.300	10.0
12/31/2015	0.025	10.0
3/31/2016	0.190	10.0
6/30/2016	0.120	10.0
9/30/2016	0.310	10.0
12/31/2016	4.900	10.0
3/31/2017	0.210	10.0
6/30/2017	0.036	10.0
9/30/2017	0.140	10.0
12/31/2017	0.025	10.0
3/31/2018	0.025	10.0
6/30/2018	0.025	10.0
9/30/2018	0.025	10.0
12/31/2018	0.025	10.0
3/31/2019	0.940	10.0
6/30/2019	1.300	10.0
9/30/2019	16.500	10.0
12/31/2019	1.600	10.0
3/31/2020	18.300	10.0
6/30/2020	10.100	10.0
9/30/2020	2.100	10.0
12/31/2020	2.500	10.0

## MW-6 Nitrate/Nitrite Results



## Groundwater Elevation (NGVD)

Date	MW-1 (BG)	MW-2	MW-3	MW-4	MW-5	MW-6
7/8/2004	14.86	13	8.5	Dry	4.1	9.2
10/24/2004	17.23	14.84	12.27	Dry	19.1	16.61
2/21/2005	17.3	16.2	11.72	Dry	16.52	14.45
6/1/2005	14.06	Dry	Dry	14.6	19.16	17.3
8/8/2005	16.31	16.65	Dry	Dry	18	19.82
11/4/2005	15.2	18.9	Dry	Dry	18.4	16.2
2/8/2006	14.36	18.96	Dry	Dry	17.73	15.38
5/12/2006	12.24	17.75	Dry	Dry	15.25	13.9
8/2/2006	11.9	16.6	Dry	Dry	15.5	Dry
11/13/2006	12.8	13	Dry	Dry	14.3	Dry
3/2/2007	15.1	14.8	Dry	15.9	17.25	Dry
5/2/2007	14.2	15.3	Dry	Dry	14.9	20.1
7/6/2007	15.75	15.3	Dry	Dry	15.6	16.15
10/10/2007	19.95	15.8	Dry	12.2	17.05	16.9
1/11/2008	17.7	15.9	Dry	11.8	16	16.3
4/4/2008	16.7	14.4	Dry	11.3	15.45	15.85
7/2/2008	15.82	15.68	Dry	12.1	15.3	20.2
10/10/2008	16.8	18.7	Dry	12.8	16.9	16.15
1/2/2009	15.8	17.5	Dry	12.06	16.1	19.85
6/18/2009	20.28	19.24	Dry	14.3	17.72	19.32
7/23/2009	17.8	19.42	Dry	12.41	17.43	18.38
10/14/2009	16.15	23.6	Dry	13.98	16.55	20.75
1/15/2010	17.89	16.15	9.56	10.1	9.65	19.67
6/30/2010						
9/16/2010	20.5	13.75	7.32	7.71	7.16	15.1
12/27/2010	16.88	14.72	7.41	8.23	7.18	12.17
2/7/2011						
4/28/2011	17.34	13.55	8.15	9.34	5.52	16.62
8/8/2011	14.56	15.43	9.72	7.19	5.23	14.29
12/31/2011	20.37	13.41	9.3	9.32	6.76	15.51
3/31/2012	14.49	14.22	10.2	9.99	6.16	14.17
6/30/2012	16.32	14.17	DRY	8.5	5.18	14.95
9/30/2012	15.78	14.8	9.93	9.69	6.69	18.11
12/31/2012	15.73	15.25	12.72	10.49	7.25	17.4
3/31/2013	16.76	12.76	8.77	8.06	6.29	14.58
6/30/2013	17.81	12.65	7.02	6.95	5.57	15.38
9/30/2013	14.46	13.58	13.72	11.31	6.59	13.61
12/31/2013						
3/31/2014						
6/30/2014						
9/30/2014	18.42	14.4	10.77	8.18	6.54	16.16
12/31/2014	19.81	14.95	12.92	8.65	7.9	17.26
3/31/2015						
6/30/2015						
9/30/2015						
12/31/2015	17.58	14.57	12.9	8.55	8.15	15.26
3/31/2016	16.11	14.54	9.39	9.39	8.15	15.16
6/30/2016	19.40	15.23	13.04	8.85	7.56	18.49
9/30/2016	17.41	15.43	12.49	7.88	7.24	17.57
12/31/2016	9.83	15.49	13.82	DNP	9.20	18.15
3/31/2017	20.56	13.88	10.92	DNP	7.29	17.81
6/30/2017	15.16	15.78	13.27	9.24	6.65	14.21

Lab sheets only

Lab sheets only

Lab sheets only

Lab sheets only

Lab sheets only

Lab sheets only

9/30/2017	18.81	20.21	8.74	8.66	12.92	16.80
12/31/2017	21.96	16.03	13.52	10.06	9.29	17.98
3/31/2018	21.38	15.35	13.32	9.63	8.89	17.52
6/30/2018	19.28	15.80	13.70	8.16	7.69	16.39
9/30/2018	18.39	17.36	14.48	9.84	9.06	16.09
12/31/2018	19.52	14.55	11.71	8.18	7.91	15.61
3/31/2019	18.67	15.08	13.22	10.21	16.57	17.98
6/30/2019	18.76	10.16	10.71	6.63	6.98	15.34
9/30/2019	15.77	13.09	11.91	8.05	5.93	11.57
12/31/2019	14.98	10.12	11.24	7.00	1.09	12.22
3/31/2020	17.16	15.33	12.52	8.16	7.80	17.11
6/30/2020	14.48	9.88	9.40	6.06	6.30	13.76
9/30/2020	18.41	15.28	13.29	9.16	7.29	16.77
12/31/2020	16.09	13.03	14.59	9.83	9.10	16.70

Groundwater Total Dissolved Solids Results

Date	MW-1 (BG)	MW-2	MW-3	MW-4	MW-5	MW-6	Limit	
9/29/1998	464.00	474.00	504.00		473.00	453.00	500	
12/15/1998	536.00	446.00	526.00		442.00	222.00	500	
3/22/1999	514.00	534.00	370.00	416.00	586.00	440.00	500	
6/21/1999	504.00	224.00	538.00	436.00	358.00	500.00	500	
9/30/1999	481.00	372.00	503.00	423.00	521.00	471.00	500	
11/8/1999		460.00	272.00	1742.00	674.00	512.00	500	
2/14/2000	536.00	572.00	430.00	422.00	232.00	544.00	500	
4/20/2000	458.00	400.00	386.00	422.00	190.00	425.00	500	
7/18/2000	352.00	738.00			370.00	568.00	500	MW-3 Dry MW-4 Dry
12/20/2000	504.00	464.00	406.00	412.00	771.00	484.00	500	
3/1/2001	514.00	496.00	418.00	486.00	706.00	450.00	500	
5/15/2001	388.00	536.00			282.00	438.00	500	MW-3 Dry MW-4 Dry
9/18/2001	418.00	402.00	328.00	258.00	366.00	406.00	500	
12/3/2001	522.00	474.00	228.00	344.00	296.00	232.00	500	
2/1/2002	416.00	476.00	598.00	386.00	310.00	294.00	500	
6/26/2002	568.00	430.00	424.00	394.00	265.00	356.00	500	
9/24/2002	452.00	500.00	366.00	510.00	438.00	418.00	500	
12/26/2002	580.00	474.00	696.00	242.00	266.00	324.00	500	
7/8/2004	540.00	470.00	530.00		340.00	410.00	500	MW-4 Dry
10/24/2004	420.00	370.00	340.00	320.00	320.00	310.00	500	
2/21/2005	430.00	400.00	490.00		350.00	430.00	500	MW-4 Dry
6/1/2005	400.00			400.00	420.00	330.00	500	MW-2 Dry MW-3 Dry
8/8/2005	340.00	390.00			310.00	420.00	500	MW-3 Dry MW-4 Dry
11/4/2005	300.00	360.00			230.00	500.00	500	MW-3 Dry MW-4 Dry
2/8/2006	720.00	480.00			330.00	390.00	500	MW-3 Dry MW-4 Dry
5/12/2006	440.00	540.00			360.00	370.00	500	MW-3 Dry MW-4 Dry
8/2/2006	440.00	600.00			390.00		500	MW-3 Dry MW-4 Dry
11/13/2006	440.00	810.00			380.00		500	MW-3 N/A MW-4 Dry
3/2/2007	590.00	620.00		580.00	470.00		500	MW-3 Dry
5/2/2007	570.00	570.00			470.00	590.00	500	MW-3 Dry MW-4 Dry
7/6/2007	600.00	540.00			460.00	590.00	500	MW-3 Dry MW-4 Dry
10/10/2007	550.00	440.00		350.00	480.00	760.00	500	MW-3 Dry
1/11/2008	510.00	320.00		370.00	440.00	450.00	500	MW-3 Dry
4/4/2008	400.00	390.00		380.00	470.00	410.00	500	MW-3 Dry
7/2/2008	620.00	480.00		550.00	460.00	520.00	500	MW-3 Dry
10/10/2008	490.00	400.00		380.00	450.00	390.00	500	MW-3 Dry
1/2/2009	470.00	510.00		340.00	420.00	500.00	500	MW-3 Dry
6/18/2009	330.00	340.00		230.00	430.00	220.00	500	MW-3 Dry
7/23/2009	340.00	400.00		250.00	420.00	390.00	500	MW-3 Dry
10/14/2009	378.00	398.00		378.00	432.00	364.00	500	MW-3 Dry
1/15/2010	490.00	398.00	1300.00	405.00	415.00	440.00	500	
6/30/2010							500	
9/16/2010	624.00	574.00	918.00	624.00	399.00	428.00	500	
12/27/2010	501.00	489.00	780.00	260.00	406.00	615.00	500	
2/7/2011	376.00	456.00	663.00	364.00	415.00	571.00	500	
4/28/2011	368.00	386.00	387.00	435.00	391.00	426.00	500	
8/8/2011	393.00	478.00	800.00	454.00	392.00	388.00	500	
12/31/2011	327.00	369.00	469.00	341.00	375.00	379.00	500	
3/31/2012	347.00	379.00	419.00	387.00	377.00	364.00	500	
6/30/2012	500.00	437.00	DRY	443.00	397.00	399.00	500	
9/30/2012	504.00	406.00	DRY	403.00	421.00	438.00	500	
12/31/2012	602.00	322.00	347.00	337.00	388.00	413.00	500	

3/31/2013	326.00	374.00	381.00	355.00	386.00	334.00	500
6/30/2013	346.00	345.00	DRY	DRY	388.00	345.00	500
9/30/2013	401.00	426.00	404.00	357.00	360.00	310.00	500
12/31/2013	212.00	361.00	379.00	346.00	324.00	303.00	500
3/31/2014	381.00	365.00	390.00	335.00	352.00	325.00	500
6/30/2014	331.00	340.00	364.00	395.00	344.00	387.00	500
9/30/2014	325.00	439.00	421.00	352.00	323.00	393.00	500
12/31/2014	249.00	311.00	441.00	284.00	314.00	376.00	500
3/31/2015	363.00	333.00	483.00	263.00	290.00	331.00	500
6/30/2015	374.00	344.00	493.00	314.00	288.00	379.00	500
9/30/2015	367.00	336.00	396.00	No data	266.00	350.00	500
12/31/2015	351.00	323.00	491.00	317.00	270.00	336.00	500
3/31/2016	358.00	336.00	293.00	293.00	253.00	319.00	500
6/30/2016	294.00	300.00	367.00	288.00	270.00	341.00	500
9/30/2016	375.00	347.00	410.00	331.00	274.00	353.00	500
12/31/2016	317.00	363.00	442.00	DNP	263.00	292.00	500
3/31/2017	349.00	334.00	345.00	DNP	271.00	303.00	500
6/30/2017	351.00	336.00	391.00	314.00	278.00	350.00	500
9/30/2017	403.00	270.00	287.00	272.00	433.00	334.00	500
12/31/2017	276.00	278.00	254.00	175.00	252.00	254.00	500
3/31/2018	231.00	260.00	290.00	212.00	248.00	250.00	500
6/30/2018	327.00	299.00	268.00	224.00	260.00	324.00	500
9/30/2018	268.00	277.00	307.00	217.00	216.00	275.00	500
12/31/2018	294.00	280.00	330.00	256.00	237.00	393.00	500
3/31/2019	241.00	278.00	297.00	262.00	238.00	326.00	500
6/30/2019	281.00	241.00	289.00	243.00	197.00	277.00	500
9/30/2019	331.00	295.00	308.00	259.00	183.00	340.00	500
12/31/2019	209.00	295.00	274.00	282.00	210.00	201.00	500
3/31/2020	227.00	185.00	302.00	240.00	214.00	330.00	500
6/30/2020	326.00	278.00	378.00	256.00	213.00	367.00	500
9/30/2020	258.00	274.00	315.00	272.00	207.00	290.00	500
12/31/2020	291.00	276.00	273.00	235.00	237.00	240.00	500



# Groundwater Chlorides Results

Date	MW-1 (BG)	MW-2	MW-3	MW-4	MW-5	MW-6	Limit
9/29/1998	84.00	120.00	222.00	DRY	180.00	233.00	250
12/15/1998	199.00	183.00	101.00	DRY	187.00	181.00	250
3/22/1999	160.00	192.00	150.00	155.00	196.00	151.00	250
6/21/1999	168.00	187.00	143.00	148.00	182.00	160.00	250
9/30/1999	138.00	172.00	157.00	188.00	213.00	144.00	250
11/8/1999	DRY	154.00	32.20	604.00	141.00	154.00	250
2/14/2000	200.00	162.00	92.00	111.00	80.00	201.00	250
4/20/2000	191.00	145.00	108.00	118.00	67.00	183.00	250
7/18/2000	183.00	136.00	DRY	DRY	95.00	158.00	250
12/20/2000	187.00	184.00	109.00	148.00	95.00	219.00	250
3/1/2001	189.00	156.00	99.00	145.00	87.00	195.00	250
5/15/2001	180.00	190.00	DRY	DRY	139.00	181.00	250
9/18/2001	152.00	131.00	161.00	170.00	96.00	106.00	250
12/3/2001	162.00	137.00	148.00	160.00	108.00	88.00	250
2/1/2002	152.00	127.00	86.00	133.00	101.00	200.00	250
6/26/2002	176.00	114.00	102.00	121.00	93.00	168.00	250
9/24/2002	138.00	124.00	93.00	116.00	100.00	195.00	250
12/26/2002	195.00	98.00	112.00	123.00	103.00	149.00	250
7/8/2004	220.00	170.00	190.00	DRY	130.00	160.00	250
10/24/2004	150.00	130.00	110.00	90.00	130.00	100.00	250
2/21/2005	160.00	160.00	160.00	DRY	140.00	150.00	250
6/1/2005	150.00	DRY	DRY	160.00	160.00	120.00	250
8/8/2005	120.00	160.00	DRY	DRY	130.00	170.00	250
11/4/2005	100.00	140.00	DRY	DRY	76.00	81.00	250
2/8/2006	69.00	190.00	DRY	DRY	120.00	160.00	250
5/12/2006	180.00	220.00	DRY	DRY	140.00	170.00	250
8/2/2006	180.00	240.00	DRY	DRY	160.00	DRY	250
11/13/2006	200.00	230.00	DRY	DRY	180.00	DRY	250
3/2/2007	260.00	240.00	DRY	210.00	190.00	DRY	250
5/2/2007	220.00	220.00	DRY	DRY	200.00	240.00	250
7/6/2007	240.00	210.00	DRY	DRY	190.00	230.00	250
10/10/2007	200.00	160.00	DRY	130.00	170.00	200.00	250
1/11/2008	200.00	89.00	DRY	150.00	190.00	180.00	250
4/4/2008	140.00	160.00	DRY	130.00	200.00	160.00	250
7/2/2008	270.00	190.00	DRY	210.00	180.00	230.00	250
10/10/2008	190.00	140.00	DRY	130.00	170.00	110.00	250
1/2/2009	210.00	220.00	DRY	150.00	170.00	220.00	250
6/18/2009	130.00	110.00	DRY	65.00	170.00	69.00	250
7/23/2009	130.00	120.00	DRY	91.00	190.00	140.00	250
10/14/2009	125.00	157.00	DRY	150.00	182.00	136.00	250
1/15/2010	191.00	167.00	165.00	161.00	167.00	177.00	250
6/30/2010							250
9/16/2010	253.00	211.00	234.00	196.00	160.00	154.00	250
12/27/2010	188.00	188.00	180.00	176.00	145.00	234.00	250
2/7/2011	132.00	190.00	195.00	158.00	174.00	162.00	250
4/28/2011	133.00	175.00	181.00	179.00	174.00	177.00	250
8/8/2011	142.00	177.00	211.00	171.00	154.00	170.00	250
12/31/2011	129.00	147.00	134.00	142.00	165.00	147.00	250
3/31/2012	135.00	170.00	97.80	186.00	175.00	151.00	250
6/30/2012	299.00	176.00	DRY	179.00	173.00	167.00	250
9/30/2012	184.00	152.00	DRY	143.00	149.00	158.00	250
12/31/2012	185.00	104.00	126.00	112.00	169.00	161.00	250

3/31/2013	118.00	127.00	131.00	138.00	140.00	128.00	250
6/30/2013	97.50	101.00	DRY	DRY	145.00	112.00	250
9/30/2013	87.10	139.00	37.60	108.00	108.00	89.10	250
12/31/2013	50.60	150.00	151.00	125.00	134.00	101.00	250
3/31/2014	133.00	103.00	390.00	96.60	114.00	99.50	250
6/30/2014	96.90	107.00	115.00	118.00	126.00	116.00	250
9/30/2014	113.00	156.00	133.00	119.00	126.00	153.00	250
12/31/2014	49.50	99.90	108.00	94.90	111.00	117.00	250
3/31/2015	98.00	107.00	110.00	87.40	111.00	111.00	250
6/30/2015	138.00	123.00	127.00	95.30	114.00	130.00	250
9/30/2015	127.00	121.00	141.00	No data	110.00	123.00	250
12/31/2015	133.00	113.00	110.00	95.50	109.00	113.00	250
3/31/2016	127.00	121.00	109.00	87.40	106.00	124.00	250
6/30/2016	96.40	113.00	121.00	110.00	109.00	117.00	250
9/30/2016	131.00	120.00	131.00	115.00	116.00	121.00	250
12/31/2016	113.00	123.00	131.00	DNP	116.00	130.00	250
3/31/2017	97.90	110.00	89.20	DNP	106.00	88.30	250
6/30/2017	111.00	101.00	103.00	107.00	119.00	108.00	250
9/30/2017	113.00	89.50	116.00	76.20	106.00	98.10	250
12/31/2017	95.90	85.60	80.90	49.20	104.00	75.70	250
3/31/2018	78.30	84.50	84.50	55.20	91.70	83.10	250
6/30/2018	94.70	83.80	73.60	63.10	92.90	98.80	250
9/30/2018	74.90	93.70	109.00	67.90	83.90	57.30	250
12/31/2018	82.40	87.70	85.00	67.00	83.70	87.30	250
3/31/2019	73.80	80.30	76.30	77.00	74.20	82.40	250
6/30/2019	94.20	89.40	95.00	79.50	72.70	95.00	250
9/30/2019	94.40	99.00	104.00	97.70	73.50	84.00	250
12/31/2019	77.30	86.70	99.30	88.50	81.90	65.70	250
3/31/2020	88.10	74.90	91.20	65.30	81.80	89.40	250
6/30/2020	105.00	101.00	107.00	81.50	82.50	117.00	250
9/30/2020	82.90	96.00	101.00	95.20	78.10	96.30	250
12/31/2020	86.50	83.10	70.10	67.70	91.60	73.20	250



## Groundwater Fecal Coliform Results (#/100 ml)

Date	MW-1 (BG)	MW-2	MW-3	MW-4	MW-5	MW-6	Limit
12/20/2000	<1	<1	<1	<1	<1	<1	4
3/1/2001	<1	<1	<1	<1	<1	<1	4
5/15/2001	<1	<1	DRY	DRY	<1	<1	4
9/18/2001	<1	<1	<1	<1	<1	<1	4
12/3/2001	<1	<1	<1	<1	<1	<1	4
2/1/2002	<1	<1	<1	<1	<1	<1	4
6/26/2002	<1	<1	<1	<1	<1	<1	4
9/24/2002	<1	<1	<1	<1	<1	<1	4
12/26/2002	<1	<1	<1	<1	<1	<1	4
7/8/2004	<10*	<10*	<10*	DRY	<2	<10*	4
10/24/2004	<10*	<10*	<10*	<10*	<10*	<10*	4
2/21/2005	<10*	<10*	<10*	DRY	<10*	<10*	4
6/1/2005	<10*			<10*	<10*	<10*	4
8/8/2005	<10*	<10*	DRY	DRY	<10*	<10*	4
11/4/2005	<10*	<10*	DRY	DRY	170	110	4
2/8/2006	<10*	<10*	DRY	DRY	400	<10*	4
5/12/2006	<2	<2	DRY	DRY	<2	<10*	4
8/2/2006	<2	<2	DRY	DRY	<2	DRY	4
11/13/2006	<2	<2	DRY	DRY	<2	DRY	4
3/2/2007	<10*	20000	DRY	4	<10*	DRY	4
5/2/2007	<2	<2	DRY	DRY	<10*	<2	4
7/6/2007	<2	<10*	DRY	DRY	<2	<2	4
10/10/2007	<2	<2	DRY	20000	360	1200	4
1/11/2008	<2	<2	DRY	40	<2	<2	4
4/4/2008	<2	<2	DRY	20000	<2	<2	4
7/2/2008	<2	<2	DRY	20000	<2	<2	4
10/10/2008	<2	30	DRY	6	<2	<2	4
1/2/2009	<2	<2	DRY	<10*	<2	<2	4
6/18/2009	<2	12	DRY	<2	<2	<2	4
7/23/2009	2	<2	DRY	<2	<2	160	4
10/14/2009	<2	<2	DRY	12	<2	2	4
1/15/2010	<2	<2	<10	<2	<2	<2	4
6/30/2010							4
9/16/2010	<2	<2	<2	<2	<2	6	4
12/27/2010	<2	<2	<50*	<2	<2	<4	4
2/7/2011	<5	<5	<5	<5	<5	<5	4
4/28/2011	2	<2	8	<2	<2	<2	4
8/8/2011	<2	<2	10	<2	<2	<2	4
12/31/2011	<2	<2	<1	<2	<2	<2	4
3/31/2012	<2	<2	<2	4	<2	<2	4
6/30/2012	<2	<2	DRY	2	<2	<2	4
9/30/2012	<2	<2	DRY	<2	<2	<2	4
12/31/2012	2	2	2	2	2	2	4
3/31/2013	<2	<2	<2	2	<2	<2	4
6/30/2013	<1	<2	DRY	DRY	<1	<2	4
9/30/2013	<2	1	1	<1	1	2	4
12/31/2013	<1	<1	<1	<2	<1	<1	4
3/31/2014	<1	<1	<1	6	<1	<1	4
6/30/2014	<1	<1	<1	<2	<1	<1	4
9/30/2014	<1	<1	<1	<1	<1	<1	4
12/31/2014	<1	<1	<2	<1	<1	<1	4
3/31/2015	<1	<1	<2	<1	<1	<1	4

6/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	4
9/30/2015	< 1	< 1	< 1	No data	< 1	24	4
12/31/2015	< 1	< 1	< 1	< 1	< 1	< 1	4
3/31/2016	1.00	1.00	1.00	1.00	1.00	1.00	4
6/30/2016	2.00	2.00	2.00	1.00	1.00	2.00	4
9/30/2016	10.00	1.00	1.00	2.00	1.00	4.00	4
12/31/2016	1.00	1.00	1.00	DNP	1.00	1.00	4
3/31/2017	4.00	1.00	1.00	DNP	1.00	1.00	4
6/30/2017	1.00	1.00	1.00	1.00	1.00	1.00	4
9/30/2017	17.00	1.00	1.00	1.00	1.00	1.00	4
12/31/2017	1.00	1.00	1.00	2.00	3.00	1.00	4
3/31/2018	1.00	1.00	1.00	1.00	1.00	1.00	4
6/30/2018	1.00	1.00	1.00	1.00	1.00	1.00	4
9/30/2018	1.00	1.00	1.00	1.00	1.00	1.00	4
12/31/2018	1.00	1.00	2.00	1.00	1.00	1.00	4
3/31/2019	1.00	1.00	1.00	5.00	1.00	1.00	4
6/30/2019	1.00	1.00	1.00	1.00	1.00	1.00	4
9/30/2019	1.00	1.00	1.00	2.00	1.00	1.00	4
12/31/2019	1.00	1.00	1.00	1.00	1.00	1.00	4
3/31/2020	1.00	1.00	1.00	1.00	1.00	1.00	4
6/30/2020	1.00	1.00	1.00	1.00	1.00	16.00	4
9/30/2020	1.00	1.00	1.00	1.00	1.00	1.00	4
12/31/2020	1.00	1.00	1.00	1.00	1.00	1.00	4

\*The Detection limit was too high to determine if the fecal exceeds 4 #/100 ml.

### Groundwater pH Results (Standard Units)

Date	MW-1 (BG)	MW-2	MW-3	MW-4	MW-5	MW-6	Min Limit	Max Limit
9/29/1998	7.20	7.00	7.00	DRY	7.00	7.30	6.5	8.5
12/15/1998	7.10	7.20	7.20	DRY	7.10	7.50	6.5	8.5
3/22/1999	7.10	6.70	6.50	6.50	7.00	7.20	6.5	8.5
6/21/1999	7.20	7.00	6.80	6.60	7.10	7.20	6.5	8.5
9/30/1999	7.40	7.30	7.10	7.10	7.30	7.10	6.5	8.5
11/8/1999		6.73	6.50	7.00	6.60	6.86	6.5	8.5
2/14/2000	5.90	7.50	7.40	7.40	7.50	7.20	6.5	8.5
4/20/2000	7.10	7.00	7.00	7.00	7.20	7.00	6.5	8.5
7/18/2000	7.00	7.10	DRY	DRY	7.00	7.10	6.5	8.5
12/20/2000	6.70	6.60	6.70	7.10	7.20	6.70	6.5	8.5
3/1/2001	7.20	6.80	6.90	6.90	7.10	6.80	6.5	8.5
5/15/2001	7.00	6.80	DRY	DRY	7.10	6.90	6.5	8.5
9/18/2001	7.20	6.80	7.00	7.10	7.20	7.10	6.5	8.5
12/3/2001	7.00	6.90	7.10	7.00	6.80	6.90	6.5	8.5
2/1/2002	6.90	7.00	7.00	6.80	7.10	7.20	6.5	8.5
6/26/2002	7.00	6.90	7.30	7.20	6.90	6.90	6.5	8.5
9/24/2002	7.20	7.00	7.20	6.80	7.10	7.20	6.5	8.5
12/26/2002	7.10	7.10	6.70	7.20	7.10	7.00	6.5	8.5
7/8/2004	6.84	5.52	6.07	DRY	6.28	6.64	6.5	8.5
10/24/2004	6.69	6.54	6.32	6.50	6.35	6.66	6.5	8.5
2/21/2005	5.93	5.96	5.82	DRY	5.17	5.92	6.5	8.5
6/1/2005	6.25	DRY	DRY	5.87	5.97	5.75	6.5	8.5
8/8/2005	6.30	6.42	DRY	DRY	5.70	6.15	6.5	8.5
11/4/2005	6.43	6.58	DRY	DRY	6.39	6.33	6.5	8.5
2/8/2006	6.31	6.44	DRY	DRY	5.93	6.25	6.5	8.5
5/12/2006	6.24	6.60	DRY	DRY	6.21	6.23	6.5	8.5
8/2/2006	6.25	6.56	DRY	DRY	6.22	DRY	6.5	8.5
11/13/2006	6.22	6.55	DRY	DRY	6.21	DRY	6.5	8.5
3/2/2007	6.45	6.65	DRY	6.62	6.18	DRY	6.5	8.5
5/2/2007	6.63	6.83	DRY	DRY	6.43	6.80	6.5	8.5
7/6/2007	6.60	7.12	DRY	DRY	6.58	6.88	6.5	8.5
10/10/2007	6.39	6.63	DRY	7.09	6.20	6.71	6.5	8.5
1/11/2008	6.62	6.49	DRY	6.91	6.20	6.00	6.5	8.5
4/4/2008	6.47	6.37	DRY	6.63	6.17	6.22	6.5	8.5
7/2/2008	6.40	6.02	DRY	6.54	5.56	6.27	6.5	8.5
10/10/2008	6.16	6.44	DRY	6.04	5.86	6.57	6.5	8.5
1/2/2009	6.41	6.71	DRY	6.28	6.26	6.48	6.5	8.5
6/18/2009	5.82	5.77	DRY	5.29	5.19	5.41	6.5	8.5
7/23/2009	6.62	6.34	DRY	5.59	5.82	6.21	6.5	8.5
10/14/2009	6.46	6.74	DRY	6.68	6.18	6.38	6.5	8.5
1/15/2010	6.53	6.72	6.57	7.10	6.28	6.51	6.5	8.5
6/30/2010							6.5	8.5
9/16/2010	5.65	6.19	5.82	5.84	6.02	5.54	6.5	8.5
12/27/2010	6.53	6.73	6.42	6.00	6.43	6.44	6.5	8.5
2/7/2011	6.37	6.60	6.38	6.54	5.86	6.46	6.5	8.5
4/28/2011	6.50	7.18	6.45	7.14	6.76	6.41	6.5	8.5
8/8/2011	5.63	5.52	5.13	6.08	5.10	5.47	6.5	8.5
12/31/2011	6.31	7.17	6.42	7.30	6.39	6.50	6.5	8.5
3/31/2012		6.72	6.37	6.30	6.34	6.35	6.5	8.5
6/30/2012		6.32	DRY	6.09	5.89	6.53	6.5	8.5
9/30/2012		6.97	DRY	6.77	5.93	6.12	6.5	8.5
12/31/2012							6.5	8.5

3/31/2013	5.82	6.75	6.09	6.31	5.99	6.30	6.5	8.5
6/30/2013	6.10	6.53	DRY	DRY	6.17	6.47	6.5	8.5
9/30/2013	5.84	6.13	6.29	6.48	6.02	5.75	6.5	8.5
12/31/2013	6.32	6.62	6.47	6.80	5.93	6.47	6.5	8.5
3/31/2014	6.51	6.71	6.53	6.91	6.43	6.79	6.5	8.5
6/30/2014	6.06	6.29	6.17	6.62	6.06	6.22	6.5	8.5
9/30/2014	5.98	6.20	6.26	6.67	6.03	6.00	6.5	8.5
12/31/2014	5.80	5.99	5.80	6.06	5.51	6.10	6.5	8.5
3/31/2015	5.97	6.15	5.99	6.50	5.74	6.32	6.5	8.5
6/30/2015	6.32	6.53	6.30	6.79	6.18	6.56	6.5	8.5
9/30/2015	6.18	6.60	6.31		6.09	6.36	6.5	8.5
12/31/2015	6.20	6.04	6.00	6.39	5.74	6.08	6.5	8.5
3/31/2016	6.26	6.62	6.72	6.72	5.97	6.30	6.5	8.5
6/30/2016	6.01	6.27	6.30	6.40	5.71	6.09	6.5	8.5
9/30/2016	5.94	6.35	6.07	6.76	5.96	6.21	6.5	8.5
12/31/2016	6.16	5.94	6.10	DNP	5.67	5.92	6.5	8.5
3/31/2017	7.07	7.09	6.85	DNP	6.30	7.43	6.5	8.5
6/30/2017	6.39	6.36	6.23	6.48	5.92	6.47	6.5	8.5
9/30/2017	6.07	6.19	5.55	5.92	6.06	6.21	6.5	8.5
12/31/2017	6.22	6.14	6.00	6.03	5.64	6.06	6.5	8.5
3/31/2018	6.27	6.24	6.67	5.96	5.37	6.10	6.5	8.5
6/30/2018	6.28	6.35	6.01	6.27	5.51	6.25	6.5	8.5
9/30/2018	6.18	6.27	6.18	6.19	5.51	6.17	6.5	8.5
12/31/2018	6.37	6.29	6.02	6.17	5.55	6.48	6.5	8.5
3/31/2019	5.88	6.23	5.86	6.22	5.51	6.13	6.5	8.5
6/30/2019	5.81	6.28	6.01	6.27	5.32	6.04	6.5	8.5
9/30/2019	5.60	5.85	5.61	5.87	5.18	5.70	6.5	8.5
12/31/2019	5.62	5.98	6.05	6.12	5.29	5.74	6.5	8.5
3/31/2020	5.81	6.34	5.98	6.51	5.43	5.94	6.5	8.5
6/30/2020	5.60	6.19	5.79	6.08	5.39	5.60	6.5	8.5
9/30/2020	6.09	6.28	6.19	6.31	5.93	6.03	6.5	8.5
12/31/2020	6.53	6.44	6.51	6.65	5.89	6.41	6.5	8.5

Many pH results are below the limit of 6.5 s.u. Please make limit for lower "Report".



# Florida Department of Environmental Protection

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

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
Tymber Creek Utilities

**RESPONSIBLE OFFICIAL:**  
Mr. J. Stanley Shirah, Owner  
1951 SR 40  
Ormond Beach, Florida 32174  
(386) 672-9815

**PERMIT NUMBER:** FLA011193  
**FILE NUMBER:** FLA011193-004-DW2P  
**EFFECTIVE DATE:** October 28, 2016  
**EXPIRATION DATE:** October 27, 2021

### FACILITY:

Tymber Creek WWTF  
1951 SR 40 (Off Sandy Spring Road)  
Ormond Beach, FL 32174  
Volusia County  
Latitude: 29°15' 54.58" N Longitude: 81°7' 37.39" 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 permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

### WASTEWATER TREATMENT:

An existing 0.131 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, filtration, chlorination, and aerobic digestion of biosolids.

### REUSE OR DISPOSAL:

**Land Application R-001:** An existing 0.131 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of five rapid infiltration basins with a total wetted area of 2.18 acres having a capacity of 0.131 MGD located approximately at latitude 29°15' 57" N, longitude 81°7' 40" 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 17 of this permit.

PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

# I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

## A. Reuse and Land Application Systems

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

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Monitoring	Sample Type	Monitoring Site Number	
Flow (flow to R-001)	MGD	Max Max	0.131 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	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal	#/100mL	Max	25	Single Sample	4 Days/Week	Grab	EFA-1	
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Total	4 Days/Week	Calculated	EFA-1	See I.A.4
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	1.0	Single Sample	5 Days/Week	Grab	EFA-1	See I.A.5
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	See I.A.6
Nitrogen, Total	mg/L	Max Max	Report Report	Annual Average Monthly Average	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	See I.A.7
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Bi-weekly; every 2 weeks	8-hr FPC	EFA-1	See I.A.7

PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

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 and V-notch weir in stilling well
EFA-1	Chlorine contact chamber effluent
EFB-1	Filter effluent prior to chlorination

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. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). [62-600.440(6)(a)]
5. 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)]
6. Nitrate nitrogen (NO<sub>3</sub>) concentration in the water discharged to the land application system shall not exceed 12.0 mg/L or as required to comply with Rule 62-610.510, F.A.C. [62-610.510]
7. Monitoring for total nitrogen (TN) and total phosphorus (TP) are required as allowed by Rule 62-600.650(3), FAC, to evaluate impacts of reclaimed water to ground and surface waters in an impaired water basin. [62-600.650(3)]

PERMITTEE: Tymber Creek Utilities  
 FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
 EXPIRATION DATE: October 27, 2021

**B. Other Limitations and Monitoring and Reporting Requirements**

- During the period beginning on the effective date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.7.:

Parameter	Units	Max/Min	Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Flow (flow thru plant)	MGD	Max Max Max	0.131 Report Report	Annual Average Monthly Average Quarterly Average	5 Days/Week	Recording Flow Meter with Totalizer	FLW-1	See I.B.4
Percent Capacity, (TMADE/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	FLW-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	Bi-weekly; every 2 weeks	8-hr FPC	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	Bi-weekly; every 2 weeks	8-hr FPC	INF-1	See I.B.3



PERMITTEE: Tymber Creek Utilities  
FACILITY: Tymber Creek WWTF

PERMIT NUMBER: FLA011193  
EXPIRATION DATE: October 27, 2021

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 and V-notch weir in stilling well
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 <http://www.dep.state.fl.us/labs/library/index.htm>. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

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

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

6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]
7. **Monitoring requirements under this permit are effective on December 1, 2016.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

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

The permittee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the permittee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Central District Office at the address specified in Permit Condition I.B.10. by the twenty-eighth (28th) of the month following the month of operation.

If submitting electronic DMR forms (**electronic preferred**), the permittee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. The EzDMR system shall be used in accordance with Condition VI. 1. of this permit, unless alternative arrangements are approved by the Central District's Wastewater Permitting Section. Register for the new system by visiting the DEP Business Portal at <http://www.fldepportal.com/go/>. For more information, contact at [EzDMRAdmin@dep.state.fl.us](mailto:EzDMRAdmin@dep.state.fl.us).

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

8. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, odor, and corrosivity). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department at the address identified on the DMR by January 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-600.660(2) and (3)(d)][62-600.680(2)][62-610.300(4)]
9. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]
10. 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](mailto:DEP_CD@dep.state.fl.us).**

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

Phone Number - (407)897-4100

[62-620.305]

11. 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

1. Biosolids generated by this facility may be transferred to Rainbow Ranch BTF 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.

			Biosolids Limitations		Monitoring Requirements		
Parameter	Units	Max/ Min	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	Biosolids leaving the facility based on estimated volume or actual weight and percent solids. Calculated and reported in dry tons.

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

### Source Facility

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

### Biosolids Treatment Facility or Treatment Facility

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

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

[62-640.880(4)]

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

### III. GROUND WATER REQUIREMENTS

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)]
5. 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]
6. 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)]
7. If the concentration for any constituent listed in Permit Condition III.10. 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)]
8. 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.9., 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]
9. 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	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	New or Existing
MWB-7662	MW-1 BACKGROUND	29°15' 55"	81°7' 41"	15	Surficial	Existing
MWC-7661	MW-2 COMPLIANCE	29°15' 57"	81°7' 37"	15	Surficial	Existing
MWC-7660	MW-3R – COMPLIANCE*	29°15' 58"	81°7' 37"	15	Surficial	Existing
MWC-7659	MW-4 COMPLIANCE	29°15' 59"	81°7' 35"	15	Surficial	Existing
MWC-7658	MW-5 COMPLIANCE	29°15' 55"	81°7' 36"	10	Surficial	Existing
MWC-7657	MW-6 COMPLIANCE	29°15' 54"	81°7' 38"	15	Surficial	Existing

\* Original compliance well MWC-3 was repeatedly reported DRY and hence replaced by MWC-3R. MWC-3R was installed on January 11, 2010. The WAFR ID (WAFR # 7660) will remain same.  
MWC = Compliance; MWB = Background; MWI = Intermediate; MWP = Piezometer

[62-520.600] [62-610.510]

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10. The following parameters shall be analyzed for each monitoring well identified in Permit Condition III.9.:

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

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

11. 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)]*
12. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. *[62-160.210] [62-600.670(3)]*
13. 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)]*
14. 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)]*
15. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the permittee shall notify the Department's Central District Office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department's Central District Office before installation. *[62-520.600(6)(l)]*

#### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

##### A. Part IV Rapid Infiltration Basins

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-610.518]*
2. The maximum annual average loading rate to the five rapid infiltration basins shall be limited to 2.2 inches per day (as applied to the entire bottom area). *[62-610.523(3)]*
3. The five rapid infiltration basins 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)]*

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

### **C. Recordkeeping Requirements**

1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of any required record drawings;
  - h. Copies of the licenses of the current certified operators;
  - i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed; and
  - j. Records of biosolids quantities, treatment, monitoring, and hauling for at least five years.

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

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## VI. SCHEDULES

1. The following improvement actions shall be completed per this schedule:

Improvement Action	Completion Date
1. Improve lighting at the plant for safety during operation	12/01/2016
2. Replace corroded aeration piping	12/01/2016
3. After the filter airlift repair, continue to monitor total suspended solids levels in the effluent and operate to maintain compliance with the limit.	Ongoing
4. Report any exceedances (ie. TSS, fecal coliform, nitrate) of permit limits to the Department with corrective actions taken.	Ongoing
5. Submit a report summarizing the next twelve months of reclaimed water data, including TSS, fecal coliform, and nitrate to confirm that the corrective actions have been effective.	12/01/2017
6. Register for and begin using the Departments EzDMR system, per condition I.B.7 of this permit	04/01/2017

[62-620.320(6)] [62-4.070(3)]

2. The permittee is not authorized to discharge to waters of the state after the expiration date of this permit, unless:
- 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
  - 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

- 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)]
- In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. [62-600.410(5) and 62-640.400(6)]
- 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)]

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4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
  - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

*[62-604.130(5)]*

6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1) and 62-600.400(2)(b)]*
7. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*
8. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. *[62-620.310(4)]*
9. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*
10. 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.

*[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)]*



2/19/2021

Mr. Abrahamson,

The following unsatisfactory condition at the Tymber Creek WWTF, Permit No.: FLA011193 as noted in your letter dated February 4, 2021 have been addressed as follows:

We are letting the rapid infiltration basins 1 and 2 dry up. As soon as the basins are dry, the excessive solids (sludge) will be removed.

Should you have any questions, please contact our office.

Sincerely,

Nancy Johnson, Secretary for

Glenn D. Wetherell, President

Wetherell Treatment Systems

Office: (386) 673-4161

Fax: (386) 673-7237

[wtssales@aol.com](mailto:wtssales@aol.com)



## Florida Department of Environmental Protection

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

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

October 31, 2016

J. Stanley Shirah, Owner  
Tymber Creek Utilities  
1951 State Road 40  
Ormond Beach, Florida 32174

Re: Tymber Creek  
DW Facility ID #FLA011193  
Volusia County

Dear Mr. Shirah:

Department personnel conducted an inspection of the above-referenced facility on April 11, 2016. Based on the information provided during and following the inspection, this case has been closed. 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 addressed.

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 Daniel Hall at 407-897-4167 or via e-mail at [Daniel.K.Hall@dep.state.fl.us](mailto:Daniel.K.Hall@dep.state.fl.us).

Sincerely,

A handwritten signature in cursive script that reads "Christine Daniel".

Christine Daniel, Manager  
Central District  
Florida Department of Environmental Protection

Enclosures: Inspection Report

cc: Darrell Abrahamson, [dabrahamson@co.volusia.fl.us](mailto:dabrahamson@co.volusia.fl.us)  
Wetherell Treatment Services, [wtssales@aol.com](mailto:wtssales@aol.com)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

**WASTEWATER COMPLIANCE INSPECTION REPORT**

**FACILITY AND INSPECTION INFORMATION**


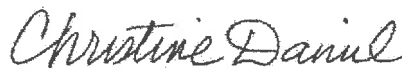
@ = Optional

Name and Physical Location of Facility Tymber Creek 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	WAFR ID: FLA011193	County Volusia Phone (386) 672-9815	Entry Date/Time 4/11/2016 1:30 PM @ Exit Date/Time 4/11/2016 2:15 PM
Name(s) of Field Representative(s) Glen Wetherell	Title Operator	Email	Phone (386) 673-4161
Name and Address of Permittee or Designated Representative J Stanley Shirah Tymber Creek Utilities 1951 SR 40 Ormond Beach, FL 32174	Title Owner	Phone (386) 672-9815 Email	@ Operator Certification #

Inspection Type: <input type="checkbox"/> C <input type="checkbox"/> E <input type="checkbox"/> I	Samples Taken(Y/N): N	@ Sample ID#:	Samples Split (Y/N):
<input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Industrial	Were Photos Taken(Y/N): Y	@ Log book Volume: III dkk	@ Page: 84

FACILITY COMPLIANCE AREAS EVALUATED					
IC: In Compliance; MC: Minor Out of Compliance; NC: Out of Compliance SC: Significant Non-Compliance; NA: Not Applicable; NE or Blank: 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	NE	3. Laboratory	IC	6. Facility Site Review	SC 9. ♦ Effluent Quality
SC 2. ♦ Compliance Schedules	SC	4. Sampling	NC	7. Flow Measurement	IC 10. ♦ Effluent Disposal
	NC	5. ♦ Records & Reports	IC	8. ♦ Operation & Maintenance	NE 11. Biosolids/Sludge
					NC 12. Groundwater
IC 14. Other:					NE 13. SSO Survey

Facility and/or Order Compliance Status: <input type="checkbox"/> In-Compliance <input type="checkbox"/> Out-Of-Compliance <input checked="" type="checkbox"/> Significant-Out-Of-Compliance
Recommended Action: Warning Letter

Name(s) and Signature(s) of Inspector(s) Daniel K. Hall 	District Office/Phone Number CD/407-897-4167	Date July 13, 2016
@ Signature of Reviewer 	District Office/Phone Number CD/407-897-2911	Date July 29, 2016

Single Event Violation Code(s):
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Facility Name: Tymber Creek

Inspection Date: 4/11/16

Facility Name: Tymber Creek

Facility ID: FLA011193

Inspection Type: CEI

Inspection Date: 4/11/2016

**FACILITY BACKGROUND:**

**Facility Address:** 1951 Sr 40 Off Sand Spring, Ormond Beach, FL 32174, Volusia County

**Program/ Permit Information:** DW, permit issue date: 10/21/2011, expiration date: 10/18/2016

**Treatment Summary:** Extended Aeration Sewage Treatment Plant Surge/Filters W/Reuse To 5 Perc Ponds

**Permitted Capacity:** 0.131 MGD

**1. Permit: RATING - IN COMPLIANCE**

**1.1. Observation: Please see specific comment.**

Additional Comments: Permit No. FLA011193 was issued October 21, 2011 and will expire October 18, 2016.

**1.2. Observation: A copy of the permit was onsite and available to plant personnel.**

**1.3. Observation: An application to renew the existing permit is currently being reviewed by the Department.**

Additional Comments: The application was received by the Department April 19, 2016, before the 180 day application deadline.

**2. Compliance Schedules: RATING - SIGNIFICANT OUT OF COMPLIANCE**

**2.1. Deficiency Description: Facility failed to complete Compliance Schedule Item #1 by the January 15, 2012 deadline. At the time of inspection on April 11, 2016, MW-4 still did not have a concrete pad. Additionally, no record can be located of the written notification of completion required of Schedule Items 1, 2, 3, 5, and 7 as well as no copy of the required engineering report summary of Schedule Items 2-5.**

<b>Improvement Action</b>	<b>Completion Date</b>
1. Fix the monitoring wells to correct concrete pads, install outer protective casings, and notify the Department of the completion in writing.	January 15, 2012
2. Perform leakage test of force main from the last lift station to the treatment plant, fix any leaks, and re-test until satisfactory (200 gallons per inch of pipe diameter per mile per day using minimum positive head of 2 feet for water test, or per ASTM F-1417 for plastic pipe for air test). Notify the Department of completion in writing.	January 15, 2012
3. Repair the Phase 1 collection system piping, where there is evidence of water intrusion, infiltration, or inflow to, by grouting, etc., and notify the Department of the completion in writing.	January 15, 2012
4. Compare rainfall and total flow through the treatment plant.	Through January 2012
5. Evaluate the efficacy of the filtration system monthly, change the filter media if there are any TSS violations after January 2010, and notify the Department of all actions in writing.	April 15, 2012
6. Provide an engineering report summarizing the results of items 2-5 above.	April 15, 2012
7. Identify and correct any additional infiltration problems based on the engineering report required in item #6, above, and notify Department in writing of completion.	June 15, 2012

**Permit/Rule or Other Reference: Statute 403.161(1) - 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.**

Facility Name: Tynber Creek  
Inspection Date: 4/11/16

Recommendations for Corrective Action: This item was addressed in the Department's Request for Additional Information issued May 10, 2016. As of July 21, 2016, no response to the RAI has been received.

3. Laboratory: RATING - NOT EVALUATED

4. Sampling: RATING - SIGNIFICANT OUT OF COMPLIANCE

4.1. Deficiency Description: Samples are not being collected in accordance with the frequency in the permit. Missed samples for fecal coliform were also noted in the July 20, 2012 and September 23, 2011 inspection reports. Additionally, the 2011 report also noted missed TSS samples.

4.1.1. TSS was not sampled four days per week for November 2012, January and November, November 2014, September and November 2015.

4.1.2. Fecal coliform was not sampled four days per week for November and December 2012, January and November 2013, November and December 2014, and January, April, September, and November 2015. The DMRs stated that the January and April 2015 samples had been lost by the laboratory.

4.1.3. Nitrogen, nitrate, total (as N) was not sampled twice per month for June 2013 and January 2015.

Permit/Rule or Other Reference: Permit Condition L.A.1. - During the period beginning on the issuance 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 in the permit table and reported in accordance with condition L.B.7.

Recommendations for Corrective Action: Monitor effluent TSS, fecal coliform, and nitrogen, nitrate, total (as N) per the permit conditions on all future monitoring periods.

4.2. Deficiency Description: Samples are not being collected in accordance with the frequency in the permit. Missed samples for influent TSS and CBOD were also noted in the July 20, 2012 and September 23, 2011 inspection reports.

4.2.1. CBOD influent was not sampled twice per month for June 2013 and May 2014. The DMR stated that the May 2014 sample had been lost by the laboratory.

4.2.2. TSS influent was not sampled twice per month for June 2013.

Permit/Rule or Other Reference: Permit Condition L.B.1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified in the permit table and reported in accordance with condition L.B.7.

Recommendations for Corrective Action: Monitor influent CBOD and TSS bi-weekly on all future monitoring periods.

4.3. Observation: Please see specific comment.

Additional Comments: The facility has an ISCO portable composite sampler setup for flow proportioned samples between the filter and the contact chamber. At inspection no sampling was taking place so the sampler was not tied down or powered. Program settings were not inspected.

5. Records and Reports: RATING - OUT OF COMPLIANCE

5.1. Deficiency Description: The Department has not received an annual Reclaimed Water or Effluent Analysis Report.

Permit/Rule or Other Reference: Permit Condition L.B.8. - During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C. (except for asbestos, color, odor, and corrosivity). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department's Central District Office by June 28 of each year.

Recommendations for Corrective Action: Submit the past three years of missing reports or letters certifying no new non-domestic discharges on the system.

5.2. Deficiency Description: The Permittee failed to report noncompliance to the Department within 24 hours as required by 62-629.61(20), F.A.C. Specifically, the flow meter malfunctioned January 2, 2014 but a malfunction report was not submitted until February 14, 2014.

Permit/Rule or Other Reference: Rule 62-620.610(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.

Recommendations for Corrective Action: Report incidents of noncompliance to the Department as required.

5.3. Deficiency Description: A review of the Discharge Monitoring Reports revealed the following deficiencies:

5.3.1. On the June 2013 DMR, nitrogen, nitrate, total as N was blank on Part A but a 0.72 on Part B. Also, CBOD influent was blank on Part A but 170 on Part B and TSS influent was blank on Part A and 164 on Part B.

5.3.2. Fecal coliform percent non-detect was calculated incorrectly on the DMRs for: August to October and December 2013; January, March, May to July, and September 2014; and August 2015. The error in October 2013 caused a report of an exceedance (68%) that did not exist; the correct calculation is 78%. This was previously noted in the September 23, 2011 inspection report.

Permit/Rule or Other Reference: 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, biweekly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit.

Recommendations for Corrective Action: Resubmit the October 2013 DMR with the corrected fecal coliform % non-detect value. Submit all future DMRs with correct calculations and all required information.

5.4. Deficiency Description: A review of the Discharge Monitoring Reports revealed the following deficiencies: The number of exceedances was not properly reported on DMRs for November 2013, March 2014, and October 2014.

Permit/Rule or Other Reference: Rule 62-620.910 Forms and Instructions - The forms and instructions used by the Department for the wastewater facilities or activities permitting and compliance program are listed in this part. Copies of the forms and instructions may be obtained at the Department District Office. The Department adopts and incorporates by reference in this section the following forms and instructions: (10) Discharge Monitoring Report (DMR), effective November 29, 1994.

Recommendations for Corrective Action: Resubmit November 2013, March 2014, and October 2014 with the correct number of exceedances listed. In all instances the number of TSS exceedances listed on Part B did not match the number reported on Part A.

5.5. Observation: Please see specific comment.

Additional Comments: From January 2, 2014 to February 13, 2014, while the flow meter was not operational, daily flow was calculated using 0.01 mgd for each day. This is inappropriate as it results in a lowering of the annual average flow. During periods where the flow meter is not available historical averages should be used in place of actual data. The use of 0.01 mgd for the daily and monthly averages has resulted in an artificially low annual average flow for the following twelve month period.

5.6. Observation: A copy of the current laboratory certification was available at the time of the inspection.  
Additional Comments: The facility is currently using Pace.

5.7. Observation: The certified operator's daily logbook was available.

5.8. Observation: Please see specific comment.  
Additional Comments: The 2015 Annual Rense Report was reviewed as part of this inspection and found to be complete. The 2014 report was received by the Department December 24, 2014 per available records but could not be located for review.

Please Note: A more efficient and paperless alternative to reporting discharge and groundwater monitoring data is available at <http://www.cdm.dep.state.fl.us>.

6. Facility Site Review: RATING - IN COMPLIANCE

6.1. Observation: General - The facility grounds were clean and well maintained.

**Facility Name:** Tynber Creek

**Inspection Date:** 4/11/16

6.2. Observation: General - A notched pressure zone backflow prevention device was in place on the potable water supply line.

6.3. Observation: Headworks - No problems or deficiencies were observed at the headworks.

Additional Comments: The splitter box and bar screen appeared to be in good condition. The surge tanks are lightly aerated.

6.4. Observation: Aeration Basins - The contents in the aeration chambers appeared to be adequately mixed.

6.5. Observation: Blowers/Motors - Please see specific comment.

Additional Comments: The facility is equipped with one large blower for treatment and two smaller blowers for the surge tanks. All blowers had belt guards in place.

6.6. Observation: Clarifiers - East: The clarifier had good settling and clear effluent.

Additional Comments: The weir was level and the clarifier had several feet of visibility.

6.7. Observation: Clarifiers - East & West: The skimmer was functioning properly.

6.8. Observation: Clarifiers - West: Excessive floating solids were observed in the clarifier.

Additional Comments: For the operator, the air lift had clogged over the weekend. The clog had been cleared by the time the inspection began.

6.9. Observation: Clarifiers - West: Solids were discharging over the clarifier weir.

Additional Comments: For the operator, the air lift had clogged over the weekend. The weir was level.

6.10. Observation: Filtration - Please see specific comment.

Additional Comments: Filter effluent was extremely turbid.

6.11. Observation: Disinfection - Floating scum/debris was observed on the surface of the chlorine contact chamber.

Additional Comments: Additionally, the content of the contact chamber were extremely turbid. This is assumed to be directly related to the west clarifier having a clogged air lift over the weekend. It is not clear why the filters did not catch the excess solids and turbidity.

**7. Flow Measurement: RATING - OUT OF COMPLIANCE**

7.1. Deficiency Description: Documentation of calibration for the flow meter was not available at the time of the inspection. The last calibration available at the facility was dated February 25, 2014.

Permit/Rule or Other Reference: Rule 62-620.350 - Unless the permit specifically indicates an alternative location, the permittee shall maintain the following records on the site of the permitted facility or activity and make them available for inspection: (1) 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.

Recommendations for Corrective Action: The facility provided a copy of the new flow meter calibration performed April 20, 2016, which was nine days after inspection.

7.2. Observation: Please see specific comment.

Additional Comments: The facility is equipped with an ultrasonic flow meter (PDS-360).

7.3. Observation: Please see specific comment.

Additional Comments: The facility is permitted for 131,000 gallon annual average daily flow. While the below are daily readings and therefore not violations at this time such flow spikes are indicators of potential L&I problems. A review of the operator logbook for March 2016 noted the following daily flows:

2/29/16	141,000
3/2/16	141,000
3/3/16	470,000
3/4/16	138,000

**Facility Name:** Tynber Creek  
**Inspection Date:** 4/11/16

3/9/16	400,000
3/10/16	165,000
3/15/16	165,000
3/17/16	140,000
3/18/16	143,000
3/23/16	420,000
3/24/16	480,000

**8. Operation and Maintenance: RATING - IN COMPLIANCE**

- 8.1. Observation: The facility was operated and maintained in accordance with the description in the permit.
- 8.2. Observation: A copy of the current O and M manual was available at the time of the inspection.
- 8.3. Observation: Please see specific comment.

Additional Comments: The Department has only received one malfunction report regarding the facility since the last inspection in July 2012. This report was for the flow meter malfunction and was received February 2, 2014.

**9. Effluent Quality: RATING - SIGNIFICANT OUT OF COMPLIANCE**

- 9.1. Deficiency Description: The fecal coliform results reported on the DMRs for September 2012, July 2013, May 2014, and February, March, August, and September 2015 were 57, 41, 60, 144, 30, 424.2, and 69 fecal coliform colonies per 100 milliliters (fec/100ml) respectively, which exceeded the limit of 25 for any one sample. Several fecal coliform exceedances were also noted in the July 20, 2012 inspection report and one was noted on the September 23, 2011 report.

Permit/Rule or Other Reference: Rule 62-600.440(6)(a)2 - Any one sample shall not exceed 25 fecal coliform values per 100 ml of sample.

Recommended Actions for Corrective Action: Maintain a fecal coliform concentration in the discharge of less than 25 fec/100ml.

- 9.2. Deficiency Description: The total residual chlorine result reported on the DMR for October 2015 was 0.9 milligrams per liter (mg/L), which is less than the 1.0 minimum required by permit.

Permit/Rule or Other Reference: Rule 62-600.440(6)(b) - Where chlorine is used for disinfection, a total chlorine residual of at least 1.0 mg/L shall be maintained at all times. The minimum acceptable contact time shall be 15 minutes at the peak hourly flow. Higher residuals or longer contact times shall be provided to meet the criteria for high-level disinfection as described in paragraphs 62-600.440(6)(a) and (c), F.A.C. The chlorine residual and contact time selected shall be justified in the preliminary design or engineering report. Rapid and uniform mixing shall be provided.

Recommended Actions for Corrective Action: Maintain a total residual chlorine of greater than 1.0 mg/L at all times.

- 9.3. Deficiency Description: The total suspended solids results reported on the DMRs in the table below exceeded the limit of 5.0 mg/L for any one sample

2013		2014		2015		2016	
Month	Result (mg/L)	Month	Result (mg/L)	Month	Result (mg/L)	Month	Result (mg/L)
July	6.0	January	7.0	January	8.0	January	6.0
August	<20.0	February	8.0	April	19		
September	5.5	March	50	September	14		
October	22.5	April	8.5	October	22.5		
November	61	May	9.5				
December	9.0	September	9.5				



Facility Name: Tynber Creek  
Inspection Date: 4/1/16

	October	<10				
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Permit/Rule or Other Reference: Rule 62-600.440(5)(a)3 - Any one sample shall not exceed 5.0 mg/L of TSS at a point before application of the disinfectant.

Recommendations for Corrective Action: Maintain a TSS of below 5.0 mg/L prior to disinfection.

9.4. Observation: Please see specific comment.

Additional Comments: DMR review period: July 2012 to February 2016.

10. Effluent Disposal: RATING - IN COMPLIANCE

10.1. Observation: The percolation/evaporation ponds appeared to be well maintained.

Additional Comments: Minor solids were noted in the SE pond, which was dry.

11. Wastewater/Sewage: RATING - NOT EVALUATED

12. Groundwater Quality: RATING - OUT OF COMPLIANCE

12.1. Deficiency Description: Nitrate results reported on the Groundwater DMRs for the first, second, and fourth quarters of 2015 (MW-3R) were 10.2, 17.6, and 18.1 milligrams per liter (mg/L) respectively, which exceeded the maximum of 10.0 mg/L for any one sample.

Permit/Rule or Other Reference: Permit Condition III.R.5. - The parameters listed in the permit shall be analyzed for each of the monitoring well(s) identified in Permit Condition(s) III.R.4.

Recommendations for Corrective Action: Maintain a low nitrate content in the discharge from the plant in order to not adversely affect groundwater.

12.2. Deficiency Description: Fecal coliform results were on the Groundwater DMRs for the first quarter of 2014 (MW-C-4), and the third quarters of 2014 and 2015 (MW-C-6) were 6, 6, and 12 fecal coliform colonies per 100 milliliters (fec/100mL) respectively, which exceeded the maximum of 4.0 fec/100mL for any one sample. Fecal coliform exceedances were previously noted in the September 23, 2011 inspection report.

Permit/Rule or Other Reference: Permit Condition III.R.5. - The parameters listed in the permit shall be analyzed for each of the monitoring well(s) identified in Permit Condition(s) III.R.4.

Recommendations for Corrective Action: Maintain a low concentration of fecal coliform bacteria in the discharge from the plant in order to not adversely affect groundwater.

12.3. Deficiency Description: The analysis method listed on the Part D DMRs are incorrect. They are listing the abbreviation "PLID" under Analysis Method on the DMRs. The abbreviation "PLID" means Flood Disinfect. This was previously noted on the September 23, 2011 inspection report.

Permit/Rule or Other Reference: Rule 62-620.910 Forms and Instructions. The forms and instructions used by the Department for the wastewater facilities or activities permitting and compliance program are listed in this part. Copies of the forms and instructions may be obtained at the Department District Offices. The Department adopts and incorporates by reference in this section the following forms and instructions: (10) Discharge Monitoring Report (DMR), effective November 29, 1994.

Recommendations for Corrective Action: Indicate the analytical method used on future groundwater reports. Record the method number from Chapter 62-160 or Chapter 62-520, F.A.C., or from other sources.

12.4. Observation: Please see specific comment.

Additional Comments: Groundwater DMRs were review for the first quarter 2013 through the first quarter of 2016.

13. SSO Source: RATING - NOT EVALUATED

14. Other: RATING - IN COMPLIANCE

14.1. Observation: Please see specific comment.

Additional Comments: Site access requires prior arrangement with the operator.

# FLORIDA RURAL WATER ASSOCIATION

2970 Wellington Circle

Tallahassee, FL 32309

1-800-872-8207

WEIR OR FLUME CALIBRATION

Flow Values Obtained by Using a Weir

FACILITY NAME: Tymber Creek WWTF      FLA011193

FACILITY LOCATION: 1951 Sr 40 Off Sand Spring Volusia County

## PRIMARY DEVICE

V-NOTCH WEIR	PARSHALL FLUME	RECTANGULAR WEIR
DEGREE OF V-NOTCH	WIDTH OF THROAT (IN)	CREST LENGTH (FT)
90	NA	Na

Gauge setting comparison using staff gauge:

☒ Satisfactory ☐ Unsatisfactory

Physical inspection of primary device approach, device and discharge:

☒ Satisfactory ☐ Unsatisfactory

## SECONDARY DEVICE

TYPE Polysonic

MAKE/MODEL/SERIAL: Control Electronics PDS-360

DATE OF LAST CALIBRATION:

	LOW FLOW	MODERATE FLOW	HIGH FLOW
STAFF GAGE READING (ft)	.05	.18	.25
ACTUAL FLOW (gpm)	.627	15.42	35.06
TOTALIZER OR RECORDER READING(gpm)	.61	14.96	34.12
PERCENT DIFFERENCE (%)	3%	3%	3%

Physical Inspection of Secondary Device:

☒ Satisfactory ☐ Unsatisfactory

Totalizer Accuracy Check Using Stopwatch:

☐ Satisfactory ☐ Unsatisfactory

COMMENTS: I hereby certify that the above test was performed in accordance with the best available technology.

TECHNICIAN SIGNATURE:



DATE: 3-18-2021

Timothy Plymel FRWA 1-800-872-8207

**Part II - General Information**

1. Reporting Period: October 1, 2019 through September 30, 2020

2. Date Submitted 11/11/2020

3. Person Completing This Form

Name : Carolyn McDaniel

Title: Bookkeeping

Organization Timber Creek Utilities, Inc.

Mailing Address 1951 W. Granada Blvd.

City/State/Zip Code Ormond Beach, FL 32174

Telephone ( 386 ) 672-9815

E-mail tymbercreekutil@aol.com

4. Reuse System Name Timber Creek Utilities, Inc.

5. Domestic Wastewater Treatment Facilities Providing Reclaimed Water to This Reuse System

a. Location of Facilities

City Ormond Beach

County Volusia

DEP District (check one):

- ☐ Northwest (Pensacola)
- ☐ Northeast (Jacksonville)
- ☐ Southwest (Tampa)
- ☒ Central (Orlando)
- ☐ Southeast (West Palm Beach)
- ☐ South (Pt. Myers)

Water Management District (check one):

- ☐ Northwest Florida (Havana)
- ☐ Suwannee River (Live Oak)
- ☐ Southwest Florida (Brooksville)
- ☒ St. Johns River (Palmdale)
- ☐ South Florida (West Palm Beach)

**RECEIVED**

NOV 16 2020

DEP Central District

b. Domestic Wastewater Treatment Facility Information

Enter the name of the facility, the DEP identification number, disinfection level,<sup>a</sup> permitted capacity, and annual average flow for each treatment facility providing reclaimed water to this reuse system.

Facility Name	DEP Identification Number	Disinfection Level <sup>a</sup>	Permitted Capacity (mgd)	Average Flow (mgd)
Tymer Creek Utilities, Inc.	3064-PO-1226	HI	0.131	0.057
Total Treated Wastewater				0.057

<sup>a</sup> Enter one of the following codes for disinfection level for each treatment facility:

HI = High-level disinfection, as described in Rule 62-600.440(5), F.A.C.

IM = Intermediate disinfection, as described in Rule 62-600.440(6), F.A.C.

BA = Basic disinfection, as described in Rule 62-600.440(4), F.A.C.

LL = Low-level disinfection, as described in Rule 62-600.440(7), F.A.C.

HB = High-level disinfection & basic disinfection for portions of the treated flow.

FT = Full treatment disinfection, as described in Rule 62-610.563(3)(b), F.A.C.

Part III - Reclaimed Water and/or Effluent Available for Reuse or Disposal

Source of Water	Average Flow (mgd)
Treated Wastewater [Enter the total from bottom of table in Part II]	0.057
Supplemental Water Supplies (Enter the flow for each supplemental water source added by the utility)	
Surface Water	NONE
Stormwater	NONE
Ground Water	NONE
Drinking Water	NONE
Demineralization Concentrate (Blended with final reclaimed water only)	NONE
Water Recovered from ASR <sup>b</sup>	NONE
Total Water Available for Reuse or Disposal [Should equal the total in Part VI of this form]	0.057

<sup>b</sup> Aquifer Storage and Recovery (ASR) - This activity is described in Rule 62-610.466, F.A.C. If you have an ASR system included in your permit for the reuse system, please make separate entries in both Part III (for the total average flow withdrawn from the ASR well) and in Part VI (for the total average flow injected into the ASR well).

## Part IV - Reuse

For each reuse activity, enter the permitted capacity, average flows, and acreage. Do not duplicate any of these entries in Part V of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the reuse types listed in this part. Make discrete entries (do not show ranges). Show totals at the bottom of the table.

Reuse Type	Reuse Sub-Type	Part	Capacity (mgd)	Flow (mgd)	Area (acres)
<b>Public Access Areas &amp; Landscape Irrigation</b>	Golf Course Irrigation	III			
	Residential Irrigation	III			
	Other Public Access Areas	III			
<b>Agricultural Irrigation &amp; Sprayfields</b>	Edible Crops (Be sure to attach the inventory of edible crop irrigation. See Part X of this form.)	III			
	Grass, Pasture, Other Crops	II			
<b>Ground Water Recharge &amp; Indirect Potable Reuse</b>	Rapid Infiltration Basins (Including Some Perc Ponds) <sup>c</sup>	IV	0.131	0.057	2.18
	Absorption Fields <sup>c</sup>	IV			
	Surface Water Augmentation (Discharge to Class I Waters)	V			
	Injection to Potable Aquifers	V			
<b>Industrial</b>	At Treatment Plant	VII			
	At Other Facilities	VII			
<b>Toilet Flushing</b>		III			
<b>Fire Protection</b>		III			
<b>Wetlands</b>					
<b>Other (Specify)</b>					
<b>Total Reuse</b> [Enter total flow on Line 1 in Part VI of this form.]			0.131	0.057	2.18

<sup>c</sup> To be considered "reuse," either of the following conditions must exist:

- \* There are multiple basins or absorption fields that are routinely wetted, dried, and maintained in accord with Part IV of Chapter 62-610, F.A.C., or

- \* Continuously-loaded ponds must meet the higher treatment/disinfection requirements in Rule 62-610.525, F.A.C.

If neither condition is met, the perc pond or absorption field is "effluent disposal" and should be recorded in Part V in this form (under "Other").

### Part V - Effluent Disposal

For each effluent disposal activity, enter the permitted capacity and average flow. Do not duplicate any of these entries in Part IV of this form. Using available flow records, other available information, and your best judgment, please allocate the average flows for all treatment facilities among the effluent disposal types listed in this part. Make discrete entries (do not show ranges) for capacity and flow. Show totals at the bottom of the table.

Disposal Type	Disposal Sub-Type	Permitted Capacity (mgd)	Average Flow (mgd)
Surface Water Discharges	Ocean Outfall		
	To Coastal or Estuarine Waters		
	To Wetlands		
	To Other Surface Waters		
Deep Well Disposal			
Other (specify)			
<b>Total Flow Disposed</b> [Enter total flow on Line 2 in Part VI of this form.]			0

### Part VI - Summary of Reuse and Disposal

Reuse or Disposal Activity	Average Flow (mgd)
1. Reuse (From bottom of Part IV of this form)	0.057
2. Effluent Disposal (From bottom of Part V)	0
3. Flow Stored in ASR (See note <sup>b</sup> on ASR in Part III.)	0
<b>Total (Should equal the total in Part III of this form.) <sup>d</sup></b>	<b>0.057</b>

<sup>d</sup> The totals in Parts III and VI will not be equal if one of the following conditions exists (check as appropriate):

- ☐ The reuse system includes an ASR system and the amounts injected and withdrawn during the year differ.
- ☐ The reuse system includes one or more reuse activities in which reclaimed water is returned to the treatment facility after its use, where it is then available for reuse or disposal.

Part VII – Reuse Activities, Numbers of Customers, and Backup Discharges

1. How many single-family residences have reclaimed water service NONE
2. How many golf courses are irrigated using reclaimed water? NONE
3. How many parks or playgrounds are irrigated using reclaimed water? NONE
4. How many schools are irrigated using reclaimed water? NONE
5. Is reclaimed water used to flush toilets? ☐ Yes ☒ No If yes, list locations where reclaimed water is used for toilet flushing. N/A
6. Is reclaimed water used for fire protection? ☒ No ☐ Yes, in sprinkler systems  
☐ Yes, in fire hydrants ☐ Yes, other (please describe) \_\_\_\_\_
7. How many cooling towers use reclaimed water from this reuse system? NONE
8. List or describe any unique or unusual uses of reclaimed water. NONE
9. Is there a surface water discharge that serves as a backup discharge for the reuse system?  
☒ No ☐ Yes, a limited Wet Weather Discharge permitted under Rule 62-610.860, F.A.C.  
☐ Yes, permitted under the APRICOT Act [Section 403.086(7), F.S.]  
☐ Yes, permitted under other rules governing surface water discharges
10. Do you require construction of reclaimed water piping in new residential or other developments?  
☐ Yes ☒ No
11. Do you require connection to the reclaimed water system when reclaimed water service becomes available?  
☐ Yes ☒ No

## Part VIII – Cross-Connection Control Activities

Rule 62-610.469, F.A.C., imposes cross-connection control requirements on reuse systems permitted under Part III of Chapter 62-610, F.A.C. This includes requirements for the implementation of cross-connection control programs by all public water supply systems serving areas that are within the *general reclaimed water service area*. Coker-coding, labeling, and separation distance requirements are included. In addition, inspections within the reclaimed water service area are required. For purposes of this form, “cross-connection” means a pipe-to-pipe connection between drinking water pipes and reclaimed water pipes.

1. Are all public water supply systems serving areas that are within the *general reuse service area* actively implementing and enforcing their cross-connection control programs? ☐ Yes ☐ No N/A
- Have all of these cross-connection control programs been accepted by the DEP or the approved county health department? ☐ Yes ☐ No N/A

2. How many illegal cross-connections have been identified during the reporting period? N/A

How many of these cross-connections have been eliminated? N/A

Please, attach a description of identified cross-connections and efforts taken to eliminate them.

3. How many new connections were made to the reclaimed water system during the reporting period? N/A

How many of the new reclaimed water connections were inspected at the time of initial connection?  
N/A

4. How often are the reclaimed water connections of existing residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

How often are the reclaimed water connections of existing non-residential reclaimed water customers inspected (i.e., daily, weekly, monthly, annually)? N/A

5. In addition to the number of new connections inspected in Item 3 above, how many existing connections were inspected during the reporting period? N/A

## Part IX - Rates Charged for the Use of Reclaimed Water

Please, list the fees charged for the use of reclaimed water. Please do not enter wastewater or sewer charges. If reclaimed water is provided at no cost, enter zeroes in both blanks. If the fee structure includes both flat rate and gallonage charge components, make a positive entry in both spaces. Make all entries in the units shown.

1. How much do you charge a single-family residential customer (assume a 0.2-acre lot) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonage charge (cents/1000 gal.) N/A



2. How much do you charge non-residential customers, such as golf courses, (assume 0.1 mgd on a 50-acre site) for the use of reclaimed water?

Flat rate (\$/month/connection) N/A

Gallonge charge (cents/1000 gal.) N/A

### Part X - Required Attachments

Check, as appropriate, and attach the required documentation.

- ☐ **Inventory of Edible Crop Irrigation** - If reclaimed water is used to irrigate edible crops at commercial agricultural sites, attach a copy of the current edible crop irrigation inventory as required by Rules 62-610.475 and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name of the agricultural operation.
- b. Name and telephone number of the owner or operator of the agricultural operation.
- c. Address of the agricultural operation.
- d. Edible crops irrigated using reclaimed water.
- e. Type of application (irrigation) method used.
- f. Approximate area (acres) under irrigation using reclaimed water on which edible crops are grown.

- ☐ **Inventory of Storage Facilities** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a copy of the current inventory of storage facilities, as required by Rules 62-610.464, 62-610.830, and 62-610.870, F.A.C. The inventory shall include the following information:

- a. Name or identifier for the storage system.
- b. Location.
- c. Function of the storage system (system storage or reject storage).
- d. Type of facility (covered tank, uncovered tank, lined pond, unlined pond).
- e. Indication of whether or not the storage facility is a water of the state or discharges to a water of the state.
- f. Distance to the nearest public water supply well.
- g. Distance to the nearest potable water supply well, which is not a public water supply well.
- h. Volume of each storage tank/pond and the total storage volume of all storage tanks and ponds (in units of million gallons).

- ☐ **Summary of Public Notification Program** - If this reuse system was permitted under Part III of Chapter 62-610, F.A.C., attach a summary of the public notification program activities during the reporting period, as required by Rule 62-610.468(6), F.A.C. The summary shall include the following:

- a. Details of written public notification activities (include copies of written notices).
- b. Summary of activities involving the news media.
- c. Use of advisory signs.
- d. Other public notification activities.

- ☐ **Summary of Metering and Rate Structure** - As noted in 403.064(16), Florida Statutes, utilities implementing reuse projects are encouraged to meter use of reclaimed water by all end users and to charge for the use of reclaimed water based on the actual volume used when such metering and charges can be shown to encourage water conservation. Metering and the use of volume-based rates are effective water management tools for the following reuse activities: residential irrigation, agricultural irrigation, industrial uses, landscape irrigation, irrigation of other public access areas, commercial and institutional

uses such as toilet flushing, and transfers to other reclaimed water utilities. As required by 403.064(16), F.S., if this reuse system provides reclaimed water for any of the uses listed above, attach a summary of the utility's metering activities and the rate structure that the utility currently employs or plans to employ. The summary shall include the following:

- a. Number of meters employed to monitor volume of reclaimed water used by customers.
- b. If information is available, please provide per capita reclaimed water use for areas that meter and for unmetered areas. If available, please provide historical per capita usage data for before and after the utility began metering reclaimed water.
- c. Provide information on the type of rate structure (i.e., inclining or declining block rates) for reclaimed water employed by the utility.
- d. Provide a description of the utility's use of master meters (i.e., for a subdivision) or the use of individual meters (i.e., for single-family residential customers).
- e. Provide a summary of the utility's plans for metering reclaimed water customers.

☒ None of these items are required for this reuse system.

#### Part XI - Permittee's Certification

I certify that the statements made in this report of reclaimed water utilization are true, correct, and complete to the best of my knowledge and belief.

Date: 11/11/2020

Carolyn McDaniel  
Signature

Phone: (386) 672-9815

Carolyn McDaniel Bookkeeping

Name and Title (please print/type)

Company Name: Timber Creek Utilities, Inc.

Address: 1951 W. Granada Blvd.

City/State/Zip Code: Ormond Beach, FL 32174

E-Mail: timbercreek@bellsouth.com

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

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

PERMITTEE NAME: Tymber Creek Utilities  
MAILING ADDRESS: 1951 SR 40  
Ormond Beach, Florida 32174-

PERMIT NUMBER:

FLA011193-004-DW2P

Expiration Date

October 27, 2021

FACILITY: Tymber Creek WWTF  
LOCATION: 1951 Sr 40 Off Sand Spring  
Ormond Beach, FL 32174-

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

Final  
N/A  
RWS-A  
Annual Reclaimed Water or Effluent Analysis

REPORT FREQUENCY:  
PROGRAM:

Annually  
Domestic:

COUNTY: Volusia  
OFFICE: Central District

From: Jan. 1, 2021 To: Dec. 31, 2021

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable (GWS = 6)*	Sample Measurement			0.50 U	ug/L	0	Annually	24-hr FPC
PARM Code 01268 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
Arsenic, Total Recoverable (GWS = 10)*	Sample Measurement			0.50 U	ug/L	0	Annually	24-hr FPC
PARM Code 00978 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
Barium, Total Recoverable (GWS = 2,000)	Sample Measurement			7.8 I	ug/L	0	Annually	24-hr FPC
PARM Code 01009 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
Beryllium, Total Recoverable (GWS = 4)	Sample Measurement			0.17 U	ug/L	0	Annually	24-hr FPC
PARM Code 00998 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
Cadmium, Total Recoverable (GWS = 5)	Sample Measurement			0.33 U	ug/L	0	Annually	24-hr FPC
PARM Code 01113 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
Chromium, Total Recoverable (GWS = 100)	Sample Measurement			1.7 U	ug/L	0	Annually	24-hr FPC
PARM Code 01118 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								

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

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

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)
Glenn Wetherell, Operator	<i>Glenn Wetherell</i>	386-673-4161	04/02/2021

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

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To:

Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Free (amen. to chlorination)(GWS = 200)	Sample Measurement					5.0 U	ug/L	0	Annually	Grab
PARM Code 00722 P	Permit Requirement					Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A										
Fluoride, Total (as F) (GWS = 4.0/2.0)	Sample Measurement					0.46	mg/L	0	Annually	24-hr FPC
PARM Code 00951 P	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Lead, Total Recoverable (GWS = 15)	Sample Measurement					0.53 I	ug/L	0	Annually	24-hr FPC
PARM Code 01114 P	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Mercury, Total Recoverable (GWS = 2)	Sample Measurement					0.090 U	ug/L	0	Annually	24-hr FPC
PARM Code 71901 P	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Nickel, Total Recoverable (GWS = 100)	Sample Measurement					2.1 U	ug/L	0	Annually	24-hr FPC
PARM Code 01074 P	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Nitrogen, Nitrate, Total (as N) (GWS = 10)	Sample Measurement					3.9	mg/L	0	Annually	24-hr FPC
PARM Code 00620 P	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Nitrogen, Nitrite, Total (as N) (GWS = 1)	Sample Measurement					0.025 U	mg/L	0	Annually	24-hr FPC
PARM Code 00615 P	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Nitrite plus Nitrate, Total 1 det. (as N)(GWS = 10)	Sample Measurement					3.9	mg/L	0	Annually	24-hr FPC
PARM Code 00630 P	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Selenium, Total Recoverable (GWS = 50)	Sample Measurement					1.2 U	ug/L	0	Annually	24-hr FPC
PARM Code 00981 P	Permit Requirement					Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A										
Sodium, Total Recoverable (GWS = 160)	Sample Measurement					81.9	mg/L	0	Annually	24-hr FPC
PARM Code 00923 P	Permit Requirement					Report (Max.)	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A										

ISSUANCE/REISSUANCE DATE:

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To: Dec. 31, 2021

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Thallium, Total Recoverable (GWS = 2)	Sample Measurement			0.11 U	ug/L	0	Annually	24-hr FPC
PARM Code 00982 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
1,1-dichloroethylene (GWS = 7)	Sample Measurement			0.29 U	ug/L	0	Annually	Grab
PARM Code 34501 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
1,1,1-trichloroethane (GWS = 200)	Sample Measurement			0.27 U	ug/L	0	Annually	Grab
PARM Code 34506 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
1,1,2-trichloroethane (GWS = 5)	Sample Measurement			0.28 U	ug/L	0	Annually	Grab
PARM Code 34511 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
1,2-dichloroethane (GWS = 3)	Sample Measurement			0.30 U	ug/L	0	Annually	Grab
PARM Code 32103 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
1,2-dichloropropane (GWS = 5)	Sample Measurement			0.13 U	ug/L	0	Annually	Grab
PARM Code 34541 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
1,2,4-trichlorobenzene (GWS = 70)	Sample Measurement			0.35 U	ug/L	0	Annually	24-hr FPC
PARM Code 34551 P	Permit Requirement			Report (Max.)	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A								
Benzene (GWS = 1)	Sample Measurement			0.11 U	ug/L	0	Annually	Grab
PARM Code 34030 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
Carbon tetrachloride (GWS = 3)	Sample Measurement			0.28 U	ug/L	0	Annually	Grab
PARM Code 32102 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								
Cis-1,2-dichloroethene (GWS = 70)	Sample Measurement			0.33 U	ug/L	0	Annually	Grab
PARM Code 81686 P	Permit Requirement			Report (Max.)	ug/L		Annually	Grab
Mon. Site No. RWS-A								

ISSUANCE/REISSUANCE DATE:

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

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To:

Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Dichloromethane (methylene chloride)(GWS = 5)	Sample Measurement				0.44 U		ug/L	0	Annually	Grab
PARM Code 03821 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
Ethylbenzene (GWS = 700)	Sample Measurement				0.23 U		ug/L	0	Annually	Grab
PARM Code 34371 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
Monochlorobenzene (GWS = 100)	Sample Measurement				0.26 U		ug/L	0	Annually	Grab
PARM Code 34031 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
1,2-dichlorobenzene (GWS = 600)	Sample Measurement				0.26 U		ug/L	0	Annually	Grab
PARM Code 34536 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
1,4-dichlorobenzene (GWS = 75)	Sample Measurement				0.30 U		ug/L	0	Annually	Grab
PARM Code 34571 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
Styrene, Total (GWS = 100)	Sample Measurement				0.20 U		ug/L	0	Annually	Grab
PARM Code 77128 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
Tetrachloroethylene (GWS = 3)	Sample Measurement				0.26 U		ug/L	0	Annually	Grab
PARM Code 34475 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
Toluene (GWS = 1,000)	Sample Measurement				3.3		ug/L	0	Annually	Grab
PARM Code 34010 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
1,2-trans-dichloroethylene (GWS = 100)	Sample Measurement				0.27 U		ug/L	0	Annually	Grab
PARM Code 34546 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab
Trichloroethylene (GWS = 3)	Sample Measurement				0.26 U		ug/L	0	Annually	Grab
PARM Code 39180 P	Permit Requirement				Report (Max.)		ug/L		Annually	Grab

ISSUANCE/REISSUANCE DATE:

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

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To: Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Vinyl chloride (GWS = 1) PARM Code 39175 P Mon. Site No. RWS-A	Sample Measurement						0.12 U	ug/L	0	Annually	Grab
	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Xylenes (GWS = 10,000) PARM Code 81551 P Mon. Site No. RWS-A	Sample Measurement						0.11 U	ug/L	0	Annually	Grab
	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
2,3,7,8-tetrachlorodibenzo-p-dioxin(GWS = 3x10 <sup>-5</sup> ) PARM Code 34675 P Mon. Site No. RWS-A	Sample Measurement						0.78 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
2,4-dichlorophenoxyacetic acid (GWS = 70) PARM Code 39730 P Mon. Site No. RWS-A	Sample Measurement						0.096 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Silvex (GWS = 50) PARM Code 39760 P Mon. Site No. RWS-A	Sample Measurement						0.16 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Alachlor (GWS = 2) PARM Code 39161 P Mon. Site No. RWS-A	Sample Measurement						0.30 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Atrazine (GWS = 3) PARM Code 39033 P Mon. Site No. RWS-A	Sample Measurement						0.15 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Benzo(a)pyrene (GWS = 0.2) PARM Code 34247 P Mon. Site No. RWS-A	Sample Measurement						0.20 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Carbofuran (GWS = 40) PARM Code 81405 P Mon. Site No. RWS-A	Sample Measurement						Non-Detect (1 U)	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Chlordane (tech mix. and metabolites)(GWS = 2) PARM Code 39350 P Mon. Site No. RWS-A	Sample Measurement						0.035 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

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

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To:

Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Dalapon (GWS = 200) PARM Code 38432 P Mon. Site No. RWS-A	Sample Measurement						3.4	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Bis(2-ethylhexyl)adipate (GWS = 400) PARM Code 77903 P Mon. Site No. RWS-A	Sample Measurement						3.7 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Bis (2-ethylhexyl) phthalate (GWS = 6) PARM Code 39100 P Mon. Site No. RWS-A	Sample Measurement						4.8 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Dibromochloropropane (DBCP) (GWS = 0.2) PARM Code 82625 P Mon. Site No. RWS-A	Sample Measurement						0.0064 U	ug/L	0	Annually	Grab
	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Dinoseb (GWS = 7) PARM Code 30191 P Mon. Site No. RWS-A	Sample Measurement						0.16 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Diquat (GWS = 20) PARM Code 04443 P Mon. Site No. RWS-A	Sample Measurement						0.16 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Endothall (GWS = 100) PARM Code 38926 P Mon. Site No. RWS-A	Sample Measurement						3.3 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Endrin (GWS = 2) PARM Code 39390 P Mon. Site No. RWS-A	Sample Measurement						0.056 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Ethylene dibromide (1,2-dibromoethane)(GWS = 0.02) PARM Code 77651 P Mon. Site No. RWS-A	Sample Measurement						0.0075 U	ug/L	0	Annually	Grab
	Permit Requirement						Report (Max.)	ug/L		Annually	Grab
Glyphosate (GWS = 0.7) PARM Code 79743 P Mon. Site No. RWS-A	Sample Measurement						0.0042	mg/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC



## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To:

Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Heptachlor (GWS = 0.4) PARM Code 39410 P Mon. Site No. RWS-A	Sample Measurement						0.14 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Heptachlor epoxide (GWS = 0.2) PARM Code 39420 P Mon. Site No. RWS-A	Sample Measurement						0.031 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorobenzene (GWS = 1) PARM Code 39700 P Mon. Site No. RWS-A	Sample Measurement						0.15 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Hexachlorocyclopentadiene (GWS = 50) PARM Code 34386 P Mon. Site No. RWS-A	Sample Measurement						0.25 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Gamma BHC (Lindane) (GWS = 0.2) PARM Code 39782 P Mon. Site No. RWS-A	Sample Measurement						0.068 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Methoxychlor (GWS = 40) PARM Code 39480 P Mon. Site No. RWS-A	Sample Measurement						0.24 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Oxamyl (vydate) (GWS = 200) PARM Code 38865 P Mon. Site No. RWS-A	Sample Measurement						Non-Detect (1 U)	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Pentachlorophenol (GWS = 1) PARM Code 39032 P Mon. Site No. RWS-A	Sample Measurement						0.030 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Picloram (GWS = 500) PARM Code 39720 P Mon. Site No. RWS-A	Sample Measurement						0.094 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Polychlorinated Biphenyls (PCBs)(GWS = 0.5) PARM Code 39516 P Mon. Site No. RWS-A	Sample Measurement						0.044 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC

ISSUANCE/REISSUANCE DATE:

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

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

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To:

Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Simazine (GWS = 4) PARM Code 39055 P Mon. Site No. RWS-A	Sample Measurement						0.41 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Toxaphene (GWS = 3) PARM Code 39400 P Mon. Site No. RWS-A	Sample Measurement						0.67 U	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Trihalomethane, Total by summation(GWS = 0.080) PARM Code 82080 P Mon. Site No. RWS-A	Sample Measurement						0.0627	mg/L	0	Annually	Grab
	Permit Requirement						Report (Max.)	mg/L		Annually	Grab
Radium 226 + Radium 228, Total (GWS = 5) PARM Code 11503 P Mon. Site No. RWS-A	Sample Measurement						1.395	pCi/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	pCi/L		Annually	24-hr FPC
Alpha, Gross Particle Activity (GWS = 15) PARM Code 80045 P Mon. Site No. RWS-A	Sample Measurement						2.88 U	pCi/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	pCi/L		Annually	24-hr FPC
Aluminum, Total Recoverable (GWS = 0.2) PARM Code 01104 P Mon. Site No. RWS-A	Sample Measurement						0.0279	mg/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Chloride (as Cl) (GWS = 250) PARM Code 00940 P Mon. Site No. RWS-A	Sample Measurement						112	mg/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Iron, Total Recoverable (GWS = 0.3) PARM Code 00980 P Mon. Site No. RWS-A	Sample Measurement						0.125	mg/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	mg/L		Annually	24-hr FPC
Copper, Total Recoverable (GWS = 1,000) PARM Code 01119 P Mon. Site No. RWS-A	Sample Measurement						3.4	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC
Manganese, Total Recoverable (GWS = 50) PARM Code 11123 P Mon. Site No. RWS-A	Sample Measurement						15.4	ug/L	0	Annually	24-hr FPC
	Permit Requirement						Report (Max.)	ug/L		Annually	24-hr FPC

## DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tymber Creek WWTF

MONITORING GROUP

RWS-A

PERMIT NUMBER: FLA011193-004-DW2P

NUMBER:

MONITORING PERIOD

From: Jan. 1, 2021

To: Dec. 31, 2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Silver, Total Recoverable (GWS = 100)	Sample Measurement						1.0 U	ug/L	0	Annually	24-hr FPC
PARM Code 01079 P	Permit						Report	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A	Requirement						(Max.)				
Sulfate, Total (GWS = 250)	Sample Measurement						18.0	mg/L	0	Annually	24-hr FPC
PARM Code 00945 P	Permit						Report	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A	Requirement						(Max.)				
Zinc, Total Recoverable (GWS = 5,000)	Sample Measurement						57.3	ug/L	0	Annually	24-hr FPC
PARM Code 01094 P	Permit						Report	ug/L		Annually	24-hr FPC
Mon. Site No. RWS-A	Requirement						(Max.)				
pH (GWS = 6.5-8.5)	Sample Measurement						7.0	s.u.	0	Annually	Grab
PARM Code 00400 P	Permit						Report	s.u.		Annually	Grab
Mon. Site No. RWS-A	Requirement						(Max.)				
Solids, Total Dissolved (TDS) (GWS = 500)	Sample Measurement						212	mg/L	0	Annually	24-hr FPC
PARM Code 70295 P	Permit						Report	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A	Requirement						(Max.)				
Foaming Agents (GWS = 0.5)	Sample Measurement						0.18 I	mg/L	0	Annually	24-hr FPC
PARM Code 01288 P	Permit						Report	mg/L		Annually	24-hr FPC
Mon. Site No. RWS-A	Requirement						(Max.)				

ISSUANCE/REISSUANCE DATE:

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

## ANALYTICAL RESULTS

Project: Tymber Creek Primary/Sec Re  
Pace Project No.: 35601642

Sample: Wastewater Effluent Lab ID: 35601642001 Collected: 12/30/20 09:30 Received: 12/30/20 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504.1 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
Pace Analytical Services - Ormond Beach									
✓ 1,2-Dibromo-3-chloropropane	0.0064 U	ug/L	0.020	0.0064	1	12/31/20 12:52	12/31/20 18:42	96-12-8	
✓ 1,2-Dibromoethane (EDB)	0.0075 U	ug/L	0.010	0.0075	1	12/31/20 12:52	12/31/20 18:42	106-93-4	
<b>505 GCS PCB-TOX-TCH</b>									
Analytical Method: EPA 505 Preparation Method: EPA 505									
Pace Analytical Services - Ormond Beach									
✓ Chlordane (Technical)	0.035 U	ug/L	0.20	0.035	1	12/31/20 12:52	12/31/20 18:36	57-74-9	
PCB-1016 (Aroclor 1016)	0.043 U	ug/L	0.099	0.043	1	12/31/20 12:52	12/31/20 18:36	12674-11-2	
PCB-1221 (Aroclor 1221)	0.032 U	ug/L	0.099	0.032	1	12/31/20 12:52	12/31/20 18:36	11104-28-2	
PCB-1232 (Aroclor 1232)	0.044 U	ug/L	0.099	0.044	1	12/31/20 12:52	12/31/20 18:36	11141-16-5	
PCB-1242 (Aroclor 1242)	0.015 U	ug/L	0.099	0.015	1	12/31/20 12:52	12/31/20 18:36	53469-21-9	
PCB-1248 (Aroclor 1248)	0.012 U	ug/L	0.099	0.012	1	12/31/20 12:52	12/31/20 18:36	12672-29-6	
PCB-1254 (Aroclor 1254)	0.036 U	ug/L	0.099	0.036	1	12/31/20 12:52	12/31/20 18:36	11097-69-1	
PCB-1260 (Aroclor 1260)	0.029 U	ug/L	0.099	0.029	1	12/31/20 12:52	12/31/20 18:36	11096-82-5	
✓ PCB, Total (Aroclor 1260)	0.044 U	ug/L	0.099	0.044	1	12/31/20 12:52	12/31/20 18:36	1336-36-3	
✓ Toxaphene	0.67 U	ug/L	0.99	0.67	1	12/31/20 12:52	12/31/20 18:36	8001-35-2	
<b>515.3 Chlorinated Herbicides</b>									
Analytical Method: EPA 515.3 Preparation Method: EPA 515.3									
Pace Analytical Services - Ormond Beach									
✓ 2,4-D	0.096 U	ug/L	0.10	0.096	1	01/08/21 15:26	01/09/21 01:22	94-75-7	
✓ Dalapon	3.4	ug/L	1.0	0.89	1	01/08/21 15:26	01/09/21 01:22	75-99-0	
✓ Dinoseb	0.16 U	ug/L	0.20	0.16	1	01/08/21 15:26	01/09/21 01:22	88-85-7	
✓ Pentachlorophenol	0.030 U	ug/L	0.040	0.030	1	01/08/21 15:26	01/09/21 01:22	87-86-5	
✓ Picloram	0.094 U	ug/L	0.10	0.094	1	01/08/21 15:26	01/09/21 01:22	1918-02-1	
✓ 2,4,5-TP (Silvex)	0.16 U	ug/L	0.20	0.16	1	01/08/21 15:26	01/09/21 01:22	93-72-1	
Surrogates									
2,4-DCAA (S)	121	%	70-130		1	01/08/21 15:26	01/09/21 01:22	19719-28-9	
<b>525.3 Pesticides Semivolatiles</b>									
Analytical Method: EPA 525.3 Preparation Method: EPA 525.3									
Pace Analytical Services - Ormond Beach									
✓ Alachlor	0.30 U	ug/L	2.0	0.30	1	12/31/20 15:02	01/06/21 19:43	15972-60-8	P1
✓ Atrazine	0.15 U	ug/L	1.0	0.15	1	12/31/20 15:02	01/06/21 19:43	1912-24-9	P1
✓ Benzo(a)pyrene	0.20 U	ug/L	1.0	0.20	1	12/31/20 15:02	01/06/21 19:43	50-32-8	P1
✓ gamma-BHC (Lindane)	0.068 U	ug/L	0.20	0.068	1	12/31/20 15:02	01/06/21 19:43	58-89-9	P1
✓ Endrin	0.056 U	ug/L	0.10	0.056	1	12/31/20 15:02	01/06/21 19:43	72-20-8	P1
✓ bis(2-Ethylhexyl)adipate	3.7 U	ug/L	15.0	3.7	1	12/31/20 15:02	01/06/21 19:43	103-23-1	P1
✓ bis(2-Ethylhexyl)phthalate	4.8 U	ug/L	20.0	4.8	1	12/31/20 15:02	01/06/21 19:43	117-81-7	P1
✓ Heptachlor	0.14 U	ug/L	0.40	0.14	1	12/31/20 15:02	01/06/21 19:43	76-44-8	P1
✓ Heptachlor epoxide	0.031 U	ug/L	0.20	0.031	1	12/31/20 15:02	01/06/21 19:43	1024-57-3	P1
✓ Hexachlorobenzene	0.15 U	ug/L	1.0	0.15	1	12/31/20 15:02	01/06/21 19:43	118-74-1	P1
✓ Hexachlorocyclopentadiene	0.25 U	ug/L	1.0	0.25	1	12/31/20 15:02	01/06/21 19:43	77-47-4	P1
✓ Methoxychlor	0.24 U	ug/L	1.0	0.24	1	12/31/20 15:02	01/06/21 19:43	72-43-5	P1
✓ Simazine	0.41 U	ug/L	1.8	0.41	1	12/31/20 15:02	01/06/21 19:43	122-34-9	P1
Surrogates									
1,3-Dimethyl-2-nitrobenzene(S)	86	%	70-130		1	12/31/20 15:02	01/06/21 19:43	81209	P1
Benzo(a)pyrene-d12 (S)	95	%	70-130		1	12/31/20 15:02	01/06/21 19:43		P1

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Tymber Creek Primary/Sec Re  
Pace Project No.: 35601642

Sample: Wastewater Effluent      Lab ID: 35601642001      Collected: 12/30/20 09:30      Received: 12/30/20 16:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>525.3 Pesticides Semivolatiles</b>									
Analytical Method: EPA 525.3 Preparation Method: EPA 525.3 Pace Analytical Services - Ormond Beach									
<b>Surrogates</b>									
Triphenylphosphate (S)	105	%	70-130		1	12/31/20 15:02	01/06/21 19:43	115-86-6	P1
<b>547 HPLC Glyphosate</b>									
Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach									
✓ Glyphosate	0.0042 mg/L	4.2 U ug/L	6.0	4.2	1		01/07/21 18:21		
<b>549.2 HPLC Paraquat Diquat</b>									
Analytical Method: EPA 549.2 Preparation Method: EPA 549.2 Pace Analytical Services - Ormond Beach									
✓ Diquat		0.16 U ug/L	0.40	0.16	1	12/30/20 21:49	12/31/20 14:46	85-00-7	
<b>200.7 MET ICP</b>									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Ormond Beach									
✓ Barium	7.8 I	ug/L	10.0	0.84	1	12/31/20 02:15	12/31/20 15:13	7440-39-3	
✓ Beryllium	0.17 U	ug/L	4.0	0.17	1	12/31/20 02:15	12/31/20 15:13	7440-41-7	
✓ Cadmium	0.33 U	ug/L	1.0	0.33	1	12/31/20 02:15	12/31/20 15:13	7440-43-9	
✓ Chromium	1.7 U	ug/L	5.0	1.7	1	12/31/20 02:15	12/31/20 15:13	7440-47-3	
✓ Iron	125	ug/L	40.0	25.0	1	12/31/20 02:15	12/31/20 15:13	7439-89-6	
✓ Manganese	15.4	ug/L	5.0	1.1	1	12/31/20 02:15	12/31/20 15:13	7439-96-5	
✓ Nickel	2.1 U	ug/L	5.0	2.1	1	12/31/20 02:15	12/31/20 15:13	7440-02-0	
✓ Silver	1.0 U	ug/L	5.0	1.0	1	12/31/20 02:15	12/31/20 15:13	7440-22-4	
✓ Sodium	81900	ug/L	2000	540	1	12/31/20 02:15	12/31/20 15:13	7440-23-5	
✓ Zinc	57.3	ug/L	20.0	11.0	1	12/31/20 02:15	12/31/20 15:13	7440-66-6	
<b>200.8 MET ICPMS</b>									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Ormond Beach									
✓ Aluminum	27.9	ug/L	10.0	8.6	1	12/31/20 02:15	12/31/20 11:00	7429-90-5	
✓ Antimony	0.50 U	ug/L	1.0	0.50	1	12/31/20 02:15	12/31/20 11:00	7440-36-0	
✓ Arsenic	0.50 U	ug/L	1.0	0.50	1	12/31/20 02:15	12/31/20 11:00	7440-38-2	
✓ Copper	3.4	ug/L	1.0	0.93	1	12/31/20 02:15	12/31/20 11:00	7440-50-8	
✓ Lead	0.53 I	ug/L	1.0	0.22	1	12/31/20 02:15	12/31/20 11:00	7439-92-1	
✓ Selenium	1.2 U	ug/L	2.0	1.2	1	12/31/20 02:15	12/31/20 11:00	7782-49-2	
✓ Thallium	0.11 U	ug/L	1.0	0.11	1	12/31/20 02:15	12/31/20 11:00	7440-28-0	
<b>245.1 Mercury</b>									
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Ormond Beach									
✓ Mercury	0.090 U	ug/L	0.20	0.090	1	01/05/21 08:40	01/13/21 11:06	7439-97-6	
<b>548.1 GCS Endothall</b>									
Analytical Method: EPA 548.1 Preparation Method: EPA 548.1 Pace Analytical Services - Ormond Beach									
✓ Endothall	3.3 U	ug/L	9.0	3.3	1	12/31/20 08:18	01/04/21 19:03		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Tymber Creek Primary/Sec Re  
Pace Project No.: 35601642

Sample: Wastewater Effluent Lab ID: 35601642001 Collected: 12/30/20 09:30 Received: 12/30/20 16:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Ormond Beach									
✓ Benzene	0.11 U	ug/L	0.50	0.11	1		01/05/21 19:40	71-43-2	
✓ Bromodichloromethane	12.6	ug/L	1.0	0.37	1		01/05/21 19:40	75-27-4	
✓ Bromoform	0.35 U	ug/L	1.0	0.35	1		01/05/21 19:40	75-25-2	
✓ Carbon tetrachloride	0.28 U	ug/L	0.50	0.28	1		01/05/21 19:40	56-23-5	
✓ Chlorobenzene	0.26 U	ug/L	0.50	0.26	1		01/05/21 19:40	108-90-7	
✓ Chloroform	48.2	ug/L	1.0	0.37	1		01/05/21 19:40	67-66-3	
✓ Dibromochloromethane	1.9	ug/L	1.0	0.47	1		01/05/21 19:40	124-48-1	
✓ 1,2-Dichlorobenzene	0.26 U	ug/L	0.50	0.26	1		01/05/21 19:40	95-50-1	
✓ 1,4-Dichlorobenzene	0.30 U	ug/L	0.50	0.30	1		01/05/21 19:40	106-46-7	
✓ 1,2-Dichloroethane	0.30 U	ug/L	0.50	0.30	1		01/05/21 19:40	107-06-2	
✓ 1,1-Dichloroethene	0.29 U	ug/L	0.50	0.29	1		01/05/21 19:40	75-35-4	
✓ cis-1,2-Dichloroethene	0.33 U	ug/L	0.50	0.33	1		01/05/21 19:40	156-59-2	
✓ trans-1,2-Dichloroethene	0.27 U	ug/L	0.50	0.27	1		01/05/21 19:40	156-60-5	
✓ 1,2-Dichloropropane	0.13 U	ug/L	0.50	0.13	1		01/05/21 19:40	78-87-5	
✓ Ethylbenzene	0.23 U	ug/L	0.50	0.23	1		01/05/21 19:40	100-41-4	
✓ Methylene Chloride	0.44 U	ug/L	1.0	0.44	1		01/05/21 19:40	75-09-2	
✓ Styrene	0.20 U	ug/L	0.50	0.20	1		01/05/21 19:40	100-42-5	
✓ Tetrachloroethene	0.26 U	ug/L	0.50	0.26	1		01/05/21 19:40	127-18-4	
✓ Toluene	3.3	ug/L	0.50	0.28	1		01/05/21 19:40	108-88-3	
✓ Total Trihalomethanes (Calc.)	62.7	ug/L	1.0	0.47	1		01/05/21 19:40		
✓ 1,2,4-Trichlorobenzene	0.35 U	ug/L	0.50	0.35	1		01/05/21 19:40	120-82-1	
✓ 1,1,1-Trichloroethane	0.27 U	ug/L	0.50	0.27	1		01/05/21 19:40	71-55-6	
✓ 1,1,2-Trichloroethane	0.28 U	ug/L	0.50	0.28	1		01/05/21 19:40	79-00-5	
✓ Trichloroethene	0.26 U	ug/L	0.50	0.26	1		01/05/21 19:40	79-01-6	
✓ Vinyl chloride	0.12 U	ug/L	0.50	0.12	1		01/05/21 19:40	75-01-4	
✓ Xylene (Total)	0.11 U	ug/L	1.0	0.11	1		01/05/21 19:40	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	112	%	70-130		1		01/05/21 19:40	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		01/05/21 19:40	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		01/05/21 19:40	2199-69-1	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C									
Pace Analytical Services - Ormond Beach									
✓ Total Dissolved Solids	212	mg/L	5.0	5.0	1		01/03/21 12:54		
<b>4500H+ pH, Electrometric</b>									
Analytical Method: SM 4500-H+B									
Pace Analytical Services - Ormond Beach									
✓ pH at 25 Degrees C	7.0	Std. Units	0.10	0.10	1		12/31/20 12:33		Q
<b>5540C MBAS Surfactants</b>									
Analytical Method: SM 5540C Preparation Method: SM 5540C									
Pace Analytical Services - Ormond Beach									
LAS Molecular Weight, g/mol	320				1	12/31/20 06:05	12/31/20 07:56		
✓ MBAS, Calculated as LAS	0.18 I	mg/L	0.20	0.099	1	12/31/20 06:05	12/31/20 07:56		J(M1)

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Tymber Creek Primary/Sec Re  
Pace Project No.: 35601642

Sample: Wastewater Effluent      Lab ID: 35601642001      Collected: 12/30/20 09:30      Received: 12/30/20 16:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Pace Analytical Services - Ormond Beach									
✓ Chloride	112	mg/L	10.0	5.0	2		01/18/21 09:08	16887-00-6	J(M1)
✓ Fluoride	0.46	mg/L	0.050	0.015	1		01/17/21 20:47	16984-48-8	
✓ Sulfate	18.0	mg/L	5.0	2.5	1		01/17/21 20:47	14808-79-8	
<b>335.4 Cyanide, Total</b>									
Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Ormond Beach									
✓ Cyanide	0.0050 U	mg/L	0.010	0.0050	1	01/04/21 06:50	01/04/21 09:31	57-12-5	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>									
Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach									
✓ Nitrogen, NO2 plus NO3	3.9	mg/L	0.050	0.033	1		12/31/20 08:24		J(M1)
✓ Nitrogen, Nitrate	3.9	mg/L	0.050	0.025	1		12/31/20 08:24	14797-55-8	
✓ Nitrogen, Nitrite	0.025 U	mg/L	0.050	0.025	1		12/31/20 08:24	14797-65-0	

## REPORT OF LABORATORY ANALYSIS

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**Pace Analytical Services, LLC**  
P.O. Box 907  
Madisonville, KY 42431  
270.821.7375  
www.pacelabs.com

### SAMPLE SUMMARY

Lab ID	Client Sample ID/Name	Matrix	Date Collected	Date Received	Sampled By
1011953-01	SOC/35601642001	Drinking Water	12/30/2020 09:30	01/05/2021 11:00	Client

### ANALYTICAL RESULTS

Lab Sample ID: **1011953-01**  
Description: **SOC 35601642001**

Sample Collection Date Time: 12/30/2020 09:30  
Sample Received Date Time: 01/05/2021 11:00

#### High Performance Liquid Chromatography (HPLC)

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
✓ Carbofuran	ND	u	ug/L	1.00		EPA 531.1 REV 3.1	01/05/2021 13:48	01/06/2021 01:08	CLS3
✓ Oxamyl	ND	u	ug/L	1.00		EPA 531.1 REV 3.1	01/05/2021 13:48	01/06/2021 01:08	CLS3

#### Notes for work order 1011953

- Samples collected by PACE personnel are done so in accordance with procedures set forth in PACE field services SOPs.
  - Results contained in this report are only representative of the samples received.
  - PACE does not provide interpretation of these results unless otherwise stated.
  - All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
  - All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
  - Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
  - The Chain of Custody document is included as part of this report.
  - All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.
- Concentrations reported are estimated values.

#### Qualifiers

- U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

#### Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than





Pace Analytical Services, LLC  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414

Tel: 612-607-1700  
Fax: 612-607-6444

### Method 1613B Sample Analysis Results

Client - PASI Florida

Client's Sample ID	Wastewater Effluent		
Lab Sample ID	35601642001		
Filename	Y210112A_11		
Injected By	SMT		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	12/30/2020 09:30
ICAL ID	Y201219	Received	01/05/2021 08:50
CCal Filename(s)	Y210112A_03	Extracted	01/08/2021 12:20
Method Blank ID	BLANK-85464	Analyzed	01/12/2021 18:27

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
✓ 2,3,7,8-TCDD	0.78 U		0.78	2,3,7,8-TCDD-13C	2.00	78
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	84

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
EDL = Estimated Detection Limit

ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated

R = Recovery outside target range  
E = Exceeds calibration range

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Tymber Creek Primary/Sec Re  
Pace Project No.: 35601642

Sample: Wastewater Effluent Lab ID: 35601642001 Collected: 12/30/20 09:30 Received: 12/30/20 16:00 Matrix: Water  
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
✓ Radium-226	EPA 903.1	0.633U ± 0.446 (0.633) C:NA T:83%	pCi/L	01/11/21 12:26	13982-63-3	
Pace Analytical Services - Greensburg						
✓ Radium-228	EPA 904.0	0.762U ± 0.354 (0.762) C:77% T:87%	pCi/L	01/13/21 11:50	15262-20-1	
Pace Analytical Services - Greensburg						
✓ Gross Alpha	EPA 9310	✓ 2.88U ± 1.00 (2.88) ✓ C:NA T:NA	pCi/L	01/11/21 07:26	12587-46-1	
Gross Beta	EPA 9310	11.2 ± 2.49 (1.60) C:NA T:NA	pCi/L	01/11/21 07:26	12587-47-2	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.40U ± 0.800 (1.40)	pCi/L	01/14/21 08:53	7440-14-4	

## REPORT OF LABORATORY ANALYSIS

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# ATTACHMENT B

Compliance Historical Documentation



# 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

January 20, 2022

T. Brent Jenkins, Esq, P.A., Estate Attorney  
Tymber Creek Utilities Inc  
1951 State Road 40  
Ormond Beach Florida 32174  
[tbjenkinspa@aol.com](mailto:tbjenkinspa@aol.com)

Re: Tymber Creek WWTF  
DW Facility ID #FLA011193  
OGC Case No: 21-1025  
Volusia County

Dear Mr. Jenkins:

Enclosed is a Consent Order ("Order") prepared by the Department for resolution of the referenced enforcement case. Please review this document and within 20 days of receipt, either: 1) return a signed copy to the Department or 2) provide comments and suggested changes. Once fully executed, a copy of the final document will be forwarded to you.

Should you have any questions or comments, please contact Dr. Phil Kane at 407-897-4156 or via e-mail at [phil.kane@FloridaDEP.gov](mailto:phil.kane@FloridaDEP.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron Watkins", is written over a horizontal line.

Aaron Watkins, Director  
Central District

Enclosure: Consent Order

cc: Mark Cadenhead [mark\\_cadenhead@bellsouth.net](mailto:mark_cadenhead@bellsouth.net)  
Glen Weatherall [wtssales@aol.com](mailto:wtssales@aol.com)

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OF FLORIDA DEPARTMENT	)	IN THE OFFICE OF THE
OF ENVIRONMENTAL PROTECTION	)	CENTRAL DISTRICT
	)	
v.	)	OGC FILE NO. 21-1025
	)	
TYMBER CREEK UTILITIES INC	)	
_____	)	

**CONSENT ORDER**

This Consent Order (Order) is entered into between the State of Florida Department of Environmental Protection (Department) and Tymber Creek Utilities INC (Respondent) to reach settlement of certain matters at issue between the Department and Respondent.

The Department finds and Respondent admits the following:

1. The Department is the administrative agency of the State of Florida having the power and duty to protect Florida's air and water resources and to administer and enforce the provisions of Chapter 403, Florida Statutes (F.S.), and the rules promulgated and authorized in Title 62, Florida Administrative Code (F.A.C.). The Department has jurisdiction over the matters addressed in this Order.
2. Respondent is a person within the meaning of Section 403.031(5), F.S.
3. Respondent is the owner and is responsible for the operation of the Tymber Creek WWTF, a 0.131 million gallon per day (MGD) annual average daily flow with extended aeration domestic wastewater treatment plant consisting of flow equalization, influent screening, aeration, secondary clarification, filtration, chlorination, and aerobic digestion of biosolids with a 0.131 MGD annual average daily flow permitted capacity rapid infiltration basin system. (Facility). The Facility is operated under Wastewater Permit No. FLA011193 (Permit), which was issued on October 28, 2016 and expired on October 27, 2021. The Facility is located at 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174, in Volusia County, Florida (Property). Respondent owns the Property on which the Facility is located.
4. The Department finds that the following violation(s) occurred:

a) Total Suspended Solids (TSS) and Nitrate exceedances of the permit limits were noted on the Discharge Monitoring Reports (DMR) during the following months, in violation of Chapters 62-610.850(1) & 62-600.440(6)(a)3. Florida Administrative Code (FAC).

MONTH	PARAMETER	LOCATION	LIMIT mg/L	RESULT mg/L
May 2020	TSS	EFB-1	5	98
September 2020	TSS	EFB-1	5	7
October 2020	TSS	EFB-1	5	12
December 2020	TSS	EFB-1	5	6.5
January 2021	TSS	EFB-1	5	5.5
March 2021	TSS	EFB-1	5	47
April 2021	TSS	EFB-1	5	7
May 2021	TSS	EFB-1	5	9
June 2021	TSS	EFB-1	5	10
July 2021	TSS	EFB-1	5	12
August 2021	TSS	EFB-1	5	77.5
September 2021	TSS	EFB-1	5	21
October 2021	Nitrogen, Nitrate, Total (as N)	EFB-1	12	21
October 2021	TSS	EFB-1	5	114

b) An Operation and Maintenance Manual for the collection system and Sanitary Sewer Response Plan were not available on site in violation of Chapter 62-604.500(4) F.A.C.

Having reached a resolution of the matter Respondent and the Department mutually agree and it is

**ORDERED:**

5. Respondent shall comply with the following corrective actions within the stated time periods:

6. Respondent shall operate the facility in a manner consistent with maintaining required effluent limitations.

7. Within 60 days of the effective date of this Order, Respondent shall submit to the Department an evaluation conducted by a professional engineer registered in the state of Florida, of the Facility, including the effluent disposal system and associated collection system, to discover the cause or causes of the violations identified in paragraph 4 above.

8. Within 30 days of the due date for submission of the evaluation in paragraph 7, Respondent shall submit to the Department Facility design modifications, prepared and submitted under seal by a professional engineer registered in the state of Florida, to remedy the cause or causes of the violations identified in paragraph 4 above and ensure the Facility and effluent disposal system will function in full and consistent compliance with all applicable rules.

9. Within 30 days of the due date for submission of the design modification(s) in paragraph 8, Respondent shall submit a complete application for a Department wastewater permit to construct the modifications submitted pursuant to paragraph 8, if such a permit is required. In the event the Department requires additional information to process the permit application Respondent shall provide a written response containing the information requested by the Department within 90 days of the date of the request.

10. Within 360 days after issuance of the wastewater permit referenced in paragraph 9 above, or if no permit is required, within 360 days of the approval of the design

modification(s) in paragraph 8, Respondent shall complete construction of the modification(s) submitted pursuant to paragraph 8.

11. Within 30 days after completion of the construction, Respondent shall submit to the Department a Certification of Completion, prepared and sealed by a professional engineer registered in the State of Florida, stating that modifications to the Facility, effluent disposal system, and collection system have been constructed in accordance with the provisions of the Permit or, if no Permit is required the design modification(s) submitted pursuant to paragraph 8.

12. Every quarter after the effective date of this Order and continuing until all corrective actions have been completed, Respondent shall submit to the Department a written report containing information about the status and progress of projects being completed under this Order, information about compliance or noncompliance with the applicable requirements of this Order, including construction requirements and effluent limitations, and any reasons for noncompliance. These reports shall also include a projection of the work Respondent will perform pursuant to this Order during the 12-month period which will follow the report. Respondent shall submit the reports to the Department within 30 days of the end of each quarter.

13. Respondent's completion of all corrective actions required by paragraphs 7,8,9, 10 and 11 within the respective deadlines specified thereunder shall constitute full compliance with Rule 600, F.A.C.

14. Within 30 days of the effective date of this Order, Respondent shall pay the Department \$4,250.00 in settlement of the regulatory matters addressed in this Order. This amount includes \$4,000.00 for civil penalties and \$250.00 for costs and expenses incurred by the Department during the investigation of this matter and the preparation and tracking of this Order. The civil penalty in this case includes 1 violation that warrant a penalty of \$4,000.00 or more.

15. Respondent agrees to pay the Department stipulated penalties in the amount of \$1,000.00 per day for each and every day Respondent fails to timely comply with any of the



requirements of paragraph(s) 6,7,8,9, 10 and 11 of this Order. The Department may demand stipulated penalties at any time after violations occur. Respondent shall pay stipulated penalties owed within 30 days of the Department's issuance of written demand for payment, and shall do so as further described in paragraph 16, below. Nothing in this paragraph shall prevent the Department from filing suit to specifically enforce any terms of this Order. Any stipulated penalties assessed under this paragraph shall be in addition to the civil penalties agreed to in paragraph 14 of this Order.

16. Respondent shall make all payments required by this Order by cashier's check, money order or on-line payment. Cashier's check or money order shall be made payable to the "Department of Environmental Protection" and shall include both the OGC number assigned to this Order and the notation "Water Quality Assurance Trust Fund." Online payments by e-check can be made by going to the DEP Business Portal at:

<http://www.fldepportal.com/go/pay/>. It will take a number of days after this order is final, effective and filed with the Clerk of the Department before ability to make online payment is available.

17. Except as otherwise provided, all submittals and payments required by this Order shall be sent to Dr. Phil Kane, Department of Environmental Protection, Central District 3319 Maguire BLVD Suite 232 Orlando, Florida 32803.

18. Respondent shall allow all authorized representatives of the Department access to the Facility and the Property at reasonable times for the purpose of determining compliance with the terms of this Order and the rules and statutes administered by the Department.

19. In the event of a sale or conveyance of the Facility or of the Property upon which the Facility is located, if all of the requirements of this Order have not been fully satisfied, Respondent shall, at least 30 days prior to the sale or conveyance of the Facility or Property, (a) notify the Department of such sale or conveyance, (b) provide the name and address of the purchaser, operator, or person(s) in control of the Facility, and (c) provide a copy of this Order with all attachments to the purchaser, operator, or person(s) in control of the Facility. The sale

or conveyance of the Facility or the Property does not relieve Respondent of the obligations imposed in this Order.

20. If any event, including administrative or judicial challenges by third parties unrelated to Respondent, occurs which causes delay or the reasonable likelihood of delay in complying with the requirements of this Order, Respondent shall have the burden of proving the delay was or will be caused by circumstances beyond the reasonable control of Respondent and could not have been or cannot be overcome by Respondent's due diligence. Neither economic circumstances nor the failure of a contractor, subcontractor, materialman, or other agent (collectively referred to as "contractor") to whom responsibility for performance is delegated to meet contractually imposed deadlines shall be considered circumstances beyond the control of Respondent (unless the cause of the contractor's late performance was also beyond the contractor's control). Upon occurrence of an event causing delay, or upon becoming aware of a potential for delay, Respondent shall notify the Department by the next working day and shall, within seven calendar days notify the Department in writing of (a) the anticipated length and cause of the delay, (b) the measures taken or to be taken to prevent or minimize the delay, and (c) the timetable by which Respondent intends to implement these measures. If the parties can agree that the delay or anticipated delay has been or will be caused by circumstances beyond the reasonable control of Respondent, the time for performance hereunder shall be extended. The agreement to extend compliance must identify the provision or provisions extended, the new compliance date or dates, and the additional measures Respondent must take to avoid or minimize the delay, if any. Failure of Respondent to comply with the notice requirements of this paragraph in a timely manner constitutes a waiver of Respondent's right to request an extension of time for compliance for those circumstances.

21. The Department, for and in consideration of the complete and timely performance by Respondent of all the obligations agreed to in this Order, hereby conditionally waives its right to seek judicial imposition of damages or civil penalties for the violations

described above up to the date of the filing of this Order. This waiver is conditioned upon Respondent's complete compliance with all of the terms of this Order.

22. This Order is a settlement of the Department's civil and administrative authority arising under Florida law to resolve the matters addressed herein. This Order is not a settlement of any criminal liabilities which may arise under Florida law, nor is it a settlement of any violation which may be prosecuted criminally or civilly under federal law. Entry of this Order does not relieve Respondent of the need to comply with applicable federal, state, or local laws, rules, or ordinances.

23. The Department hereby expressly reserves the right to initiate appropriate legal action to address any violations of statutes or rules administered by the Department that are not specifically resolved by this Order.

24. Respondent is fully aware that a violation of the terms of this Order may subject Respondent to judicial imposition of damages, civil penalties up to \$15,000.00 per day per violation, and criminal penalties.

25. Respondent acknowledges and waives its right to an administrative hearing pursuant to sections 120.569 and 120.57, F.S., on the terms of this Order. Respondent also acknowledges and waives its right to appeal the terms of this Order pursuant to section 120.68, F.S.

26. Electronic signatures or other versions of the parties' signatures, such as .pdf or facsimile, shall be valid and have the same force and effect as originals. No modifications of the terms of this Order will be effective until reduced to writing, executed by both Respondent and the Department, and filed with the clerk of the Department.

27. The terms and conditions set forth in this Order may be enforced in a court of competent jurisdiction pursuant to sections 120.69 and 403.121, F.S. Failure to comply with the terms of this Order constitutes a violation of section 403.161(1)(b), F.S.

28. This Consent Order is a final order of the Department pursuant to section 120.52(7), F.S., and it is final and effective on the date filed with the Clerk of the Department unless a Petition for Administrative Hearing is filed in accordance with Chapter 120, F.S.

Upon the timely filing of a petition, this Consent Order will not be effective until further order of the Department.

29.

Persons who are not parties to this Consent Order, but whose substantial interests are affected by it, have a right to petition for an administrative hearing under sections 120.569 and 120.57, Florida Statutes. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition concerning this Consent Order means that the Department's final action may be different from the position it has taken in the Consent Order.

The petition for administrative hearing must contain all of 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 the petitioner contends warrant reversal or modification of the agency's proposed action;
- f) A statement of the specific rules or statutes 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 petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received) at the Department's Office of General Counsel, 3900 Commonwealth Boulevard, MS# 35, Tallahassee, Florida 32399-3000 or received via electronic correspondence at [Agency\\_Clerk@floridadep.gov](mailto:Agency_Clerk@floridadep.gov), within 21 days of receipt of this notice. A copy of the petition must also be mailed at the time of filing to the District Office at

Department of Environmental Protection, Central District 3319 Maguire BLVD Suite 232 Orlando, Florida 32803. Failure to file a petition within the 21-day period constitutes a person's waiver of the right to request an administrative hearing and to participate as a party to this proceeding under sections 120.569 and 120.57, Florida Statutes. Before the deadline for filing a petition, a person whose substantial interests are affected by this Consent Order may choose to pursue mediation as an alternative remedy under section 120.573, Florida Statutes. Choosing mediation will not adversely affect such person's right to request an administrative hearing if mediation does not result in a settlement. Additional information about mediation is provided in section 120.573, Florida Statutes and Rule 62-110.106(12), Florida Administrative Code.

30. Rules referenced in this Order are available at  
<http://www.dep.state.fl.us/legal/Rules/rulelist.htm>

FOR THE RESPONDENT:

---

T. Brent Jenkins, Esq, P.A.  
Estate Attorney

Date

DONE AND ORDERED this \_\_ day of \_\_\_\_\_, 2022, in Orange County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

---

Aaron Watkins  
District Director  
Central

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

---

Clerk

---

Date

Copies furnished to:

Lea Crandall, Agency Clerk  
Mail Station 35



# 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

May 24, 2021

T. Brent Jenkins, Esq, P.A., Estate Attorney  
Tymber Creek Utilities Inc  
1951 State Road 40  
Ormond Beach Florida 32174  
[tymbercreekutil@aol.com](mailto:tymbercreekutil@aol.com)

Re: Compliance Assistance Offer  
Tymber Creek WWTF  
Permit # FLA011193  
Volusia County

Dear Mr. Jenkins :

An inspection was conducted Tymber Creek WWTF on April 14, 2021. During this inspection, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving these matters.

Specifically,

Potential non-compliance with the requirements of chapter 403, Florida Statutes, and chapter(s) 62-620 and 62-604), Florida Administrative Code were observed. Please see the attached inspection report for a full account of Department observations and recommendations.

We request you review the item(s) of concern noted and respond in writing within **30 days** of receipt of this Compliance Assistance Offer. Your written response should include one of the following:

1. Describe what has been done to resolve the non-compliance issue or provide a schedule describing how/when the issue will be addressed.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid, or
3. Arrange for the case manager to visit your facility to discuss the item(s) of concern.

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.

Tymber Creek Utilities Facility ID No.: FLA011193  
Compliance Assistance Offer  
Page 2 of 2  
May 24, 2021

Please address your response and any questions to Dr. Phil Kane of the Central District Office at 407-897-4156 or via e-mail at [phil.kane@floridadep.gov](mailto:phil.kane@floridadep.gov). We look forward to your cooperation with this matter.

Sincerely,

A handwritten signature in cursive script that reads "David Smicherko".

David Smicherko, Manager  
Central District  
Florida Department of Environmental Protection

Enclosures: Inspection Report (with attachments)

cc: Glen Wetherell [wtssales@aol.com](mailto:wtssales@aol.com)



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

<b>Facility Name and Physical Address</b> Tymber Creek Utilities 1951 SR 40 (off Sand Spring Road) Ormond Beach, FL 32174	<b>WAFR ID</b> FLA011193	<b>County</b> Volusia	<b>Entry Date</b> 4/14/2021	<b>Entry Time</b> 820 AM
	<b>Facility Phone #</b> 386-673-4161		<b>Exit Date</b> 4/14/2021	<b>Exit Time</b> 852 AM

LAT	29	°	15	'	54.58	"
LONG	81	°	37	'	39	"

<b>Name(s) of Field Representatives(s) and Title</b> Glen Wetherell/Operator <small>Click or tap here to enter text.</small>	<b>Operator Certification #</b> <small>Click or tap here to enter text.</small>	<b>Email</b> wtssales@aol.com <small>Click or tap here to enter text.</small>	<b>Phone</b> 386-673-4161 <small>Click or tap here to enter text.</small>
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<b>Name &amp; Address of Permittee / Designated Rep.</b> T. Brent Jenkins, Esq, P.A. Tymber Creek Utilities Inc 1951 State Road 40 Ormond Beach Florida 32174	<b>Title</b> Estate Attorney	<b>Email</b> tymbercreekutil@aol.com	<b>Phone</b> 386-672-1332
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<b>Inspection Type</b>	C	E	I		<b>Samples Taken(Y/N):</b> N	<b>Sample ID#:</b> na	<b>Samples Split (Y/N) :</b> N
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**X Domestic**    ☐ **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	NE	4. Sampling	IC	7. Flow Measurement	IC	10. ♦ Effluent Disposal
		NC	5. ♦ Records & Reports	IC	8. ♦ Operation & Maintenance	IC	11. Biosolids
						NE	12. ♦ Groundwater
NE	14. Other					NC	13. ♦ SSO Survey

<b>Facility and/or Order Compliance Status:</b>	<input type="checkbox"/> In-Compliance	<input checked="" type="checkbox"/> Out-Of -Compliance	<input type="checkbox"/> Significant-Out-Of-Compliance
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**Recommended Actions:** Click or tap here to enter text.

<b>Name(s) and Signature(s) of Inspector(s)</b>  Dr. Phil Kane  <i>Philip N Kane, Esq, D</i>	<b>District Office/Phone Number</b> CD/407-897-4156	<b>Date</b> 5/20/2021
<b>Name and Signature of Reviewer</b>  David Smicherko  <i>David Smicherko</i>	<b>District Office/Phone Number</b> CD/407-897-4169	<b>Date</b> 5/20/2021

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 Florida Department of Health and therefore is not certified to meet NELAC standards.	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 checked="" 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 or their Biosolids Nutrient Management Plan.	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 - Discharge to Waters	A sewage spill from any components of a collection/transmission system or from a treatment plant reached surface waters including stormwater conveyance system or drainage ditch.	SSO1
<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(1)(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
<input type="checkbox"/>	Sanitary Sewer Overflow Survey	WW SSO - Overflow to Dry Land	A sewage spill from any part of a collection/transmission system or treatment plant that did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake.	SSO6

**Facility Treatment Summary:** An existing 0.131 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, filtration, chlorination, and aerobic digestion of biosolids.

**1. Permit:** In-Compliance

Current Permit available on-site?	Yes
Date Permit issued	10/28/2016
Date Permit Expires	10/27/2021
Permit Renewal Application due by	04/25/2021
Administrative or Judicial Orders?	N/A

1.1 Observation: The permit renewal application was submitted on April 9, 2021.

**2. Compliance Schedules:** Out-of-Compliance

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

2.1 Deficiency: EzDMR has not been implemented.  
Rule/Permit Reference: Permit Condition VI.1.6. Register for and begin using the Departments EzDMR system, per condition I.B.7 of this permit 04/01/2017.  
Corrective Action: register and utilize EzDMR.

**3. Laboratory:** In-Compliance

Contract Lab Name and Certification #	Pace Analytical E83079
Facility NELAC Certification #	E83079

3.1 Observation: Lab certification was current.

**4. Sampling:** Not Evaluated

**5. Records and Reports:** Out-of-Compliance

<b>Documents/Records reviewed</b>	<b>Time frame</b>
Discharge Monitoring Reports (DMRs)	From 05/31/20 to 03/31/21

5.1 Deficiency: Minor report errors were noted during the review period. Part A does not match Part B (May, September, and October 2020).  
Rule/Permit Reference: Permit Condition B.7. Monitoring requirements under this permit are effective on December 1, 2016. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly,

quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

Corrective Action: Accurately complete the DMRs.

- 5.2 Deficiency: On several occasions during the review it was noted that DMRs were not submitted in accordance with associated due dates.

Rule/Permit Reference: Chapter 62-620.610(18)(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.

Corrective Action: Correctly submit required DMRs.

- 5.3 Deficiency: Not enough Coliform EFA-1 samples on part B & TSS EFB-1. (October, November and December 2020). Grab samples 4 days a week are required for both.

Rule/Permit Reference: Permit Condition B.7. Monitoring requirements under this permit are effective on December 1, 2016. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

Corrective Action: Accurately monitor and report in accordance with permit conditions.

- 5.4 Deficiency: Fecal Coliform percent non-detect was reported as 94 % on part A, the actual calculation should be 88% as reported on the September 2020 DMR. Percent value is less than detection and permit limit is 75 %.

Rule/Permit Reference: Permit Condition I.A.4. To report the "% less than detection," count the number of fecal coliform observations that were less than detection, divide by the total number of fecal coliform observations in the month, and multiply by 100% (round to the nearest integer). [62-600.440(6)(a)]

Corrective Action: Accurately compute and report % detection.

- 5.5 Deficiency: Using old/wrong ground water monitoring report (GWMR) for July and October 2020 and January 2021.

Rule/Permit Reference: Permit Condition B.7. Monitoring requirements under this permit are effective on December 1, 2016. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs)

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

Corrective Action: Utilize the correct forms in accordance with permit conditions.

- 5.6 Observation: Due to no onsite potable water, a Reduced Pressure Zone certification is not needed.
- 5.7 Observation: The operator was Glen Wetherall license 0001218 expires 4/30/2021.
- 5.8 Observation: The Operations and maintenance Manual was onsite.
- 5.9 Observation: The logbook was bound, numbered, current, and onsite.

**6. Facility Site Review:** In-Compliance

- 6.1 Observation: The bar screen and splitter box were in good condition.
- 6.2 Observation: There was a covered trash container.
- 6.3 Observation: The surge tank was good.
- 6.4 Observation: The Return Activated Sludge was good.
- 6.5 Observation: The 2 aeration basins had good air and color.
- 6.6 Observation: The 2 clarifiers were good with one having minor pop ups.
- 6.7 Observation: The 2 stilling wells were good.
- 6.8 Observation: The 2 skimmers were working.
- 6.9 Observation: The 2 weirs were level with clear effluent.
- 6.10 Observation: The 2 cell filters were in good condition.
- 6.11 Observation: The single chlorine contact chamber was good with a working chlorine pump.
- 6.12 Observation: The digester was good with room.
- 6.13 Observation: The 2 blowers had guards.

**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	October 27, 2020

- 7.1 Observation: Flow calibration was onsite.

**8. Operation and Maintenance:** In-Compliance

Facility being operated as per permit?	Yes
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- 8.1 Observation: The facility was fenced.

- 8.2 Observation: The facility was secure.
- 8.3 Observation: The facility had no offensive odors.
- 8.4 Observation: The facility had signage.
- 8.5 Observation: The facility had no leaks.

**9. Effluent Quality: Out-of-Compliance**

DMRs review period	From 05/31/20 to 03/31/21
Any exceedances?	Yes

- 9.1 Deficiency: Parameter exceedances were noted in the review period. The following exceedances of permit limits occurred.

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: Maintain parameters within permit limits.

MONTH	PARAMETER	LOCATION	LIMIT mg/L	RESULT mg/L
May 2020	TSS	EFB-1	5	98
September 2020	TSS	EFB-1	5	7
October 2020	TSS	EFB-1	5	12
December 2020	TSS	EFB-1	5	6.5
January 2021	TSS	EFB-1	5	5.5
March 2021	TSS	EFB-1	10	47

**10. Effluent Disposal: In-Compliance**

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

- 10.1 Observation: The 4 effluent discharge pond areas all had 4 feet of freeboard.
- 10.2 Observation: The 4 effluent discharge pond areas had minor vegetation.
- 10.3 Observation: The 4 effluent discharge pond areas berms were in good condition.
- 10.4 Observation: The 4 effluent discharge pond areas had good maintenance.

**11. Biosolids: In-Compliance**

- 11.1 Observation: Biosolids are removed and transported to an approved biosolids treatment facility as needed.

**12. Groundwater Quality:** Not Evaluated

**13. SSO Survey:** Out-of-Compliance

Does the facility have an Operation and Maintenance Manual for their collection system?	No
Does the facility track spills in their collection system?	No
Does the facility have procedures for minimizing spills?	No
Are those procedures included in the Operation and Maintenance Manual or in a separate document?	No manual
How often is the manual updated?	No manual

- 13.1 Deficiency: An Operation and Maintenance Manual for the collection system with a Sanitary Sewer Response Plan was not available on site.

Rule/Permit Reference: Rule 62-604.500(4) F.A.C. Copies of record drawings and the operation and maintenance manual shall be available at a site within the boundaries of the district office or delegated local program permitting the collection/transmission system, for use by operation and maintenance personnel and for inspection by Department personnel.

(a) The operation and maintenance manual shall provide for reliable and efficient operation and maintenance of the collection/transmission system.

(b) The detail of the operation and maintenance manual shall be consistent with the complexity of the system. The manual shall be developed in accordance with the technical guidance document contained in paragraph 62-604.300(4)(i), F.A.C., and the unique requirements of the individual wastewater facility and shall provide the operator with adequate information and description regarding the design, operation, and maintenance features of the facility involved, including an emergency response plan.

(c) The operation and maintenance manual shall be revised periodically to reflect any alterations performed or to reflect experience resulting from operation.

(d) 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.

Corrective Action: Please provide an O&M Manual with Spill Tracking procedures to the Department by email. A 1/14/2021 email confirms correction of the Spill Plan.

**14. Other:** Not Evaluated



## Rickey Parker

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**From:** Brown, Wilmott  
**Sent:** Wednesday, September 29, 2021 11:44 AM  
**To:** DEP\_CD  
**Subject:** FW: Response for Tymber Creek WWTF RAI (FLA011193)  
**Attachments:** Updated TSS Fecal Nitrate Biosolids 2021.xlsx; Updated GW Nitrate data.xlsx

**Categories:** Regulatory for Allen & Meena, Meena, Allen

### Oculus Info:

<b>Catalog:</b> Wastewater
<b>Profile:</b> Permitting_Authorization
<b>Facility/Site Id:</b> FLA011193
<b>Document Type:</b> INCOMING CORRESPONDENCE
<b>Facility Type:</b> DOMESTIC WASTEWATER
<b>Permit Type:</b> DW Domestic Wastewater Facility
<b>Application Number:</b> FLA011193-005-DW2P/NR
<b>Document Subject:</b> Tymber Creek WWTF

**From:** MARK CADENHEAD <mark\_cadenhead@bellsouth.net>  
**Sent:** Monday, September 27, 2021 12:18 AM  
**To:** Brown, Wilmott <Wilmott.Brown@FloridaDEP.gov>  
**Subject:** Response for Tymber Creek WWTF RAI (FLA011193)

### EXTERNAL MESSAGE

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Hi Wilmott.

I have continued to track and review the data for TSS for Tymber Creek. Reality is that the current treatment/equipment does not seem sufficient to meet the limit of 5 mg/L maximum when sampling is required 5 times per week. The facility continues to generate violations so they will need to go under a Consent Order. The filters need to be evaluated and if replacing the media does not solve the problem, then a whole new design will be needed. Unfortunately, as noted before, Mr. Shirah has passed away and there is no person familiar with the rules and regulations to quickly try to resolve issues or approve expenditures.

All other issues seem to be good now such as Nitrate in the effluent and in the wells. They are wasting and hauling more frequently which has helped all aspects. FRWA did not recommend using a coagulant/precipitation in the clarifier so I don't want to recommend that as a treatment option.

The operator seems to note that there are lift station "issues" that contribute to the TSS exceedances also like one per month so I will put in the RAI that they need to evaluate the lift station and resolve whatever is going on there. The operator is not specific on the DMR about exactly what the "issues" may be but conversations seem to indicate various foreign items flushed down the toilets. Anyhow, that type of study and evaluation can probably be a part of the schedule in a permit since it can be

done pretty quickly most likely but since the filters seem to not be 100% effective and will need a C.O. to give time to resolve, then the lift station issues could just be added to that evaluation and resolution.

My opinion that I will give in the response is that the facility is not capable of meeting the TSS limit with current equipment and processes and must go under a Consent Order to evaluate and then if necessary get a permit modification to add or upgrade treatment.

Just wanted to give you a heads up. Here is the updated TSS; fecal; nitrate and biosolids results. Groundwater results are good now so the improvements in the effluent for Nitrate and TN, overall, seem to be helping there.

Also, if the estate lawyer will approve the request, I am going to ask that the permitted capacity be reduced to 0.0999 mgd AADF. The flows are well below that and that would put them below the 100,000 gpd level and eliminate the need for the Reuse Feasibility Report. I have lots of flow info to present to support the request including trending information. The community is built out I'm pretty sure.

Mark

Thank you. Mark Cadenhead, P. E., MBA, President Cadenhead Environmental Engineering Services, Inc. 1982 SR 44, #201 New Smyrna Beach, FL 32168 Phone: 904 307-6824



## Rickey Parker

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**From:** Brown, Wilmott  
**Sent:** Wednesday, September 29, 2021 11:45 AM  
**To:** DEP\_CD  
**Subject:** FW: Tymber Creek RIBs

**Categories:** Regulatory for Allen & Meena, Meena, Allen

### Oculus Info:

<b>Catalog:</b> Wastewater
<b>Profile:</b> Permitting_Authorization
<b>Facility/Site Id:</b> FLA011193
<b>Document Type:</b> INCOMING CORRESPONDENCE
<b>Facility Type:</b> DOMESTIC WASTEWATER
<b>Permit Type:</b> DW Domestic Wastewater Facility
<b>Application Number:</b> FLA011193-005-DW2P/NR
<b>Document Subject:</b> Tymber Creek WWTF

**From:** MARK CADENHEAD <mark\_cadenhead@bellsouth.net>  
**Sent:** Monday, September 27, 2021 2:16 AM  
**To:** Brown, Wilmott <Wilmott.Brown@FloridaDEP.gov>  
**Subject:** Tymber Creek RIBs

### EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email

Here are some photos of the ponds on June 29, 2021.

The solids were removed from the pond that was noted in the inspection report and with my initial visit in Feb. 2021. Note that the RAI asks for scarification. The permit does not require scarification; only removal of the solids. They clean the ponds; remove and bag any solids; and mow the ponds to maintain the percolation rates. The ponds are normally not an issue at this facility.

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)]

Thanks.

Mark

Thank you. Mark Cadenhead, P. E., MBA, President Cadenhead Environmental Engineering Services, Inc. 1982 SR 44, #201 New Smyrna Beach, FL 32168 Phone: 904 307-6824

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 02/01/2021 To: 02/28/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.05						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		.05						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					1.5			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2	<2		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						<5		0	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						39		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				94				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.7		7		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.3				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						1.2		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					11.3			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						6.6		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					3.1			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						.45		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		.05						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	.043	.05						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						33		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						230		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						250		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE  04/02/2021	SUBMITTED ON  04/02/2021

Parameter	Monitoring Site	Comments for Monitoring Group - R-001
74055 A	EFA-1	"Trash and debris had to be cleared from lift station pump which may have affected fecal coliform count"



**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 02/01/2021 To: 02/28/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.2912</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				04/02/2021	04/02/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 03/01/2021 To: 03/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.050						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		0.044						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					1.3			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						47.0		1	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						2.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				89				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N) PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						0.27		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					10.9			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						6.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					3.1			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						4.4		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		0.050						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	0.044	0.044						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						34		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						97.8		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						63.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE	SUBMITTED ON
											04/29/2021	05/05/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 03/01/2021 To: 03/31/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>0.6672</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE  04/29/2021	SUBMITTED ON  05/05/2021
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**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 04/01/2021 To: 04/30/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.049						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		0.043						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					1.3			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						7.0		1	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						1.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				94				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.0		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)



Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N) PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						2.4		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					11.5			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						14.8		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.9			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						2.5		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		0.049						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	0.045	0.043						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						34		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						173.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						63.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE	SUBMITTED ON

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 04/01/2021 To: 04/30/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.3344</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE  06/01/2021	SUBMITTED ON  06/07/2021
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**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 05/01/2021 To: 05/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.048						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		0.037						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					30.1			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					18.0	34.9		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						9.0		2	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						6.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				87				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.2		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.3				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N) PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						1.6		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					11.1			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						2.6		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.6			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						0.67		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.048						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement	0.041	0.037						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						31		0	1 Monthly	Calculated
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)
BOD, Carbonaceous 5 day, 20C	Sample Measurement						680.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Solids, Total Suspended	Sample Measurement						2140.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	RECEIVED DATE  06/29/2021	SUBMITTED ON  07/09/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 05/01/2021 To: 05/31/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.6346</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				06/29/2021	07/09/2021



**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 06/01/2021 To: 06/30/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.045						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		0.036						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.5			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						10.0		2	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						13.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				90				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N) PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					10.1			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						2.9		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.3			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						0.99		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		0.045						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	0.038	0.036						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						29		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						233.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						47.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE  07/29/2021	SUBMITTED ON  08/06/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 06/01/2021 To: 06/30/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>0.6672</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				07/29/2021	08/06/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 07/01/2021 To: 07/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.044						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		0.038						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.5			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						12.0		3	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						3.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				88				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						9.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					10.7			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						15.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.3			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						2.5		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)



Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.044						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement	0.037	0.038						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						28		0	1 Monthly	Calculated
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)
BOD, Carbonaceous 5 day, 20C	Sample Measurement						315.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Solids, Total Suspended	Sample Measurement						278.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	RECEIVED DATE  08/30/2021	SUBMITTED ON  09/09/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 07/01/2021 To: 07/31/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.3344</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE  08/30/2021	SUBMITTED ON  09/09/2021
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**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 08/01/2021 To: 08/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.044						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		0.047						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.5			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						77.5		1	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						2.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				94				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N) PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						0.45		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					9.7			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						3.3		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.0			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P) PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						0.32		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		0.044						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement	0.040	0.047						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						30		0	1 Monthly	Calculated
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)
BOD, Carbonaceous 5 day, 20C	Sample Measurement						115.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Solids, Total Suspended	Sample Measurement						70.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	RECEIVED DATE  09/29/2021	SUBMITTED ON  10/11/2021

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 08/01/2021 To: 08/31/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.2012</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE  09/29/2021	SUBMITTED ON  10/11/2021
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**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 09/01/2021 To: 09/30/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.043						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		.043						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.5			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)



Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						21.0		1	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						12.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				94				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.3				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						0.048		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					9.2			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						3.7		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.1			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						2.3		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		.043						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	.042	.043						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						32		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						52.5		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						184.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE	SUBMITTED ON
Submitted by Data Entry Operator											10/29/2021	01/12/2022

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 09/01/2021 To: 09/30/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	dry tons			<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	dry tons			<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				10/29/2021	01/12/2022

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 10/01/2021 To: 10/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.045						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		.029						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.4			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						114.0		3	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						1.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				87				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.3				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						21.0		1	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					8.4			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						13.5		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					2.2			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						3.7		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		.045						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	.039	.029						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						30		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						176.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						308.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE  11/29/2021	SUBMITTED ON  01/12/2022



Parameter	Monitoring Site	Comments for Monitoring Group - R-001
00530 B	EFB-1	Plant operator contacted lab to have the effluent TSS sample of 10/14/2021 checked for analysis if correct.

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 10/01/2021 To: 10/31/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.3344</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE  11/29/2021	SUBMITTED ON  01/12/2022
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**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 11/01/2021 To: 11/30/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.040						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		.037						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.4			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						<5.0		0	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						1.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				94				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.7		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						0.079		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					7.7			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						5.6		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					1.9			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						0.22		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		.040						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	0.036	.037						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						27		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						411.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						89.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE	RECEIVED DATE	SUBMITTED ON
Submitted by Data Entry Operator											12/29/2021	01/12/2022

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 11/01/2021 To: 11/30/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.2924</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				12/29/2021	01/12/2022

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 12/01/2021 To: 12/31/2021

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.040						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		.043						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.4			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)



Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						<5.0		0	4 Days/Week	Grab
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						42.0		1	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				89				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.1		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						1.3		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					7.2			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						2.1		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					1.8			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						0.86		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow	Sample Measurement		.040						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Flow	Sample Measurement	.036	.043						0	5 Days/Week	Recording Flow Meter with Totalizer	
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtrr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)	
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						27		0	1 Monthly	Calculated	
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)	
BOD, Carbonaceous 5 day, 20C	Sample Measurement						27.2		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
Solids, Total Suspended	Sample Measurement						37.5		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite	
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	RECEIVED DATE	SUBMITTED ON	
											02/08/2022	02/16/2022

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 12/01/2021 To: 12/31/2021				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>1.3344</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				02/08/2022	02/16/2022

**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME:	Tymber Creek Utilities	PERMIT NUMBER:	FLA011193
ADDRESS:	1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174	LIMIT:	FINAL REPORT: Monthly
FACILITY:	Tymber Creek WWTF	FACILITY TYPE:	DW GROUP: Domestic
LOCATION:	1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174	MONITORING GROUP:	R-001
COUNTY:	VOLUSIA	DESCRIPTION:	Rapid Infiltration Basins
		MONITORING PERIOD:	From: 01/01/2022 To: 01/31/2022

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.040						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Y Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement		.042						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 1 Add. Desc: flow to R-001 Mon. Site: FLW-1	Permit Requirement		Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					2.4			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 Y Mon. Site: EFA-1	Permit Requirement					20.0 (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
BOD, Carbonaceous 5 day, 20C	Sample Measurement					<2.0	<2.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 A Mon. Site: EFA-1	Permit Requirement					30.0 (Mo Avg)	60.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended PARM Code 00530 B Mon. Site: EFB-1	Sample Measurement						<5.0		0	4 Days/Week	1.0
	Permit Requirement						5.0 (Maximum)	mg/L		(4 Days/Week)	(Grab)
Coliform, Fecal PARM Code 74055 A Mon. Site: EFA-1	Sample Measurement						1.0		0	4 Days/Week	Grab
	Permit Requirement						25.0 (Maximum)	#/100mL		(4 Days/Week)	(Grab)
Coliform, Fecal, % less than detection PARM Code 51005 A Mon. Site: EFA-1	Sample Measurement				88				0	4 Days/Week	Calculated
	Permit Requirement				75.0 (MinTotMo)			percent		(4 Days/Week)	(Calculated)
pH PARM Code 00400 A Mon. Site: EFA-1	Sample Measurement				6.8		7.2		0	5 Days/Week	Grab
	Permit Requirement				6.0 (Minimum)		8.5 (Maximum)	s.u.		(5 Days/Week)	(Grab)
Chlorine, Total Residual PARM Code 50060 A Add. Desc: For Disinfection Mon. Site: EFA-1	Sample Measurement				1.2				0	5 Days/Week	Grab
	Permit Requirement				1.0 (Minimum)			mg/L		(5 Days/Week)	(Grab)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Nitrate, Total (as N)  PARM Code 00620 A Mon. Site: EFA-1	Sample Measurement						3.6		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						12.0 (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 Y Mon. Site: EFA-1	Sample Measurement					6.6			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Nitrogen, Total  PARM Code 00600 A Mon. Site: EFA-1	Sample Measurement						2.6		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 Y Mon. Site: EFA-1	Sample Measurement					1.7			0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement					Report (Annl Avg)		mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Phosphorus, Total (as P)  PARM Code 00665 A Mon. Site: EFA-1	Sample Measurement						1.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
	Permit Requirement						Report (Mo Avg)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement		.040						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 P Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement		0.131 (Annl Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Flow	Sample Measurement	.040	.042						0	5 Days/Week	Recording Flow Meter with Totalizer
PARM Code 50050 Q Add. Desc: flow thru plant Mon. Site: FLW-1	Permit Requirement	Report (Qtr Avg)	Report (Mo Avg)	MGD						(5 Days/Week)	(Recording Flow Meter with Totalizer)
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement						30		0	1 Monthly	Calculated
PARM Code 00180 1 Mon. Site: FLW-1	Permit Requirement						Report (Mo Avg)	percent		(1 Monthly)	(Calculated)
BOD, Carbonaceous 5 day, 20C	Sample Measurement						327.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 80082 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
Solids, Total Suspended	Sample Measurement						320.0		0	1 Bi-weekly; every 2 weeks	8-hr Flow Proportioned Composite
PARM Code 00530 G Add. Desc: Influent Mon. Site: INF-1	Permit Requirement						Report (Maximum)	mg/L		(1 Bi-weekly; every 2 weeks)	(8-hr Flow Proportioned Composite)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	RECEIVED DATE  02/28/2022	SUBMITTED ON  03/03/2022



**DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A**

PERMITTEE NAME: Tymber Creek Utilities ADDRESS: 1951 SR 40 (Off Sandy Spring Road) Ormond Beach, FL 32174 FACILITY: Tymber Creek WWTF LOCATION: 1951 Sr 40 Off Sand Spring Ormond Beach, FL 32174 COUNTY: VOLUSIA					PERMIT NUMBER: FLA011193 LIMIT: FINAL REPORT: Monthly FACILITY TYPE: DW GROUP: Domestic MONITORING GROUP: RMP-Q DESCRIPTION: Biosolids Quantity MONITORING PERIOD: From: 01/01/2022 To: 01/31/2022				
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Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type		
Biosolids Quantity (Transferred)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0007 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>
Biosolids Quantity (Landfilled)	<b>Sample Measurement</b>		<b>0</b>					<b>0</b>	<b>1 Monthly</b>	<b>Calculated</b>
PARM Code B0008 + Mon. Site: RMP-1	<b>Permit Requirement</b>		<b>Report (Mo Total)</b>	<b>dry tons</b>					<b>(1 Monthly)</b>	<b>(Calculated)</b>

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  Submitted by Data Entry Operator	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 GATHERED AND EVALUATED 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.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	RECEIVED DATE	SUBMITTED ON
				02/28/2022	03/03/2022

# ATTACHMENT C

Agreements with Surrounding Utilities

# **WATER SUPPLY AGREEMENT**

This Agreement is made and entered into this the 30<sup>th</sup> day of July, 1996 (the "Agreement"), between the CITY OF ORMOND BEACH, a Florida municipal corporation (the "CITY"), and TYMBER CREEK UTILITIES, INC., a Florida corporation ("TCU").

## **RECITALS**

1. TCU currently owns a water utility system ("TCU's System") currently certificated to provide water service to properties and customers in Volusia County, Florida.

2. Rather than purchasing TCU's System, the CITY has proposed that TCU purchase potable water from the CITY on a wholesale basis and acknowledges the continuing permanent benefit which the CITY will receive by virtue of being able to annex the service area hereafter described and to provide wholesale water service to TCU and its current and future customers pursuant to the terms hereof.

3. The CITY's ability to provide wholesale water service is deemed by the CITY to be of economic benefit to the CITY and its citizens.

4. The feasibility of TCU's operation of its water system is dependent upon the CITY's provision of wholesale water service.

5. In reasonable reliance upon the eventual provision of wholesale water service, TCU has foregone the expansion and renovation of its existing water treatment and production facilities.

6. TCU and the CITY believe and acknowledge that it is in the best interest of each party to enable the provision of wholesale water service by the CITY to TCU, and therefore, the parties hereto agree that this Agreement is entered into under the CITY's proprietary, and not governmental, capacity.

7. The CITY and TCU hereby acknowledge and warrant to each other that this Agreement and any future acts as required hereby are binding and enforceable on the CITY and TCU in accordance with their terms.

8. The agreement of the CITY to provide wholesale water service as set forth in this Agreement and to be bound by this Agreement, as well as the CITY's assurance to TCU that this Agreement is enforceable against the CITY and that the CITY will not seek to thwart enforcement based on any claim of invalidity, are all material inducements to TCU to enter into this Agreement, and TCU would not enter into this Agreement but for such agreement and assurances by the CITY.



9. TCU and the CITY have already made and will continue to make financial commitments in contemplation of entering into this Agreement.

10. The CITY is willing to provide wholesale water service to TCU, and TCU is willing to receive wholesale water service from the CITY, only as under the terms of this Agreement.

11. The CITY is willing to enter into an agreement with TCU to supply potable water to customers residing within the specific service area for potable water included within TCU's Certificate of Authorization as issued by the Florida Public Service Commission (the "PSC"), as described on Exhibit "A" attached hereto which is intended to include the entire Tymber Creek Planned Unit Development as approved by Volusia County on the date of execution of this Agreement (the "Service Area").

ACCORDINGLY, in consideration of the above-stated recitals, in consideration of mutual benefits in the public interest, and in consideration of other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

I. **Recitals.** The foregoing recitals are true and correct and are hereby incorporated herein by reference, and form a material part of this Agreement. All exhibits to this Agreement are hereby deemed a part hereof.

II. **Service to be Provided.**

A. The CITY agrees to furnish and TCU agrees to purchase a supply of potable water in accordance with the terms of this Agreement. The supply of potable water shall be delivered and taken through a new eight (8") service line to be constructed by TCU and connected to a master meter (the "Master Meter") which will be installed by the CITY at the CITY's expense, on the existing potable water transmission line on the West side of Tymber Creek Road.

B. The potable water furnished pursuant to this Agreement shall be transmitted through transmission lines owned by TCU, to customers residing within the Service Area.

III. **Quantities to be Provided.** The average daily supply of potable water provided by the CITY shall meet all reasonable requirements of customers regularly supplied by TCU in accordance with the provisions of TCU's existing Certificate of Authorization as issued by the PSC. The volume of water is estimated to be 200,000 gallons per day maximum day demand, in addition to the necessary fire flow.



#### IV. Legal.

A. This Agreement is entered into under the authority of the Florida Constitution (including without limitation Article VIII, Section 2(b) thereof), the general powers conferred upon the CITY by statute and otherwise (including without limitation Chapters 159, 163, 166, and 180, Florida Statutes), and the CITY's Charter.

B. The Agreement shall be in force and effect from the date the Service Area is annexed into the corporate limits of the CITY.

C. No officer, employee, or agent of either party, whether elected or appointed, shall have the authority to amend, modify or alter the Agreement or to waive any of its provisions or to bind either party by making any promise or representation not contained in the Agreement.

D. The Agreement may not be assigned or transferred by either party without the prior written consent of the other party, which consent shall not be unreasonably withheld.

E. The CITY will not be responsible in damages for any interruption or failure to supply potable water and shall be indemnified and held harmless by TCU from all damages of any kind, nature and description which may arise as a result of entering into the Agreement and providing potable water under the Agreement. TCU shall include the CITY as an additional insured on all of its liability insurance policies and shall provide evidence thereof to the City Clerk.

#### V. Regulations.

A. TCU may not permit any potable water provided under the Agreement to be used by any customer residing outside of the Service Area without the prior written approval of the City Commission of the CITY ("the City Commission") and, if required, the PSC. This shall not apply to emergency service provided to other water customers of the CITY.

B. At the end of each calendar year, and not later than January 31st of each year, TCU shall provide to the City Manager a copy of TCU's prevailing water rate schedule as applicable to TCU's water customers, which schedule shall include all rates and relevant information and the premise on which rates have been formulated.

C. TCU will provide the City Manager with a copy of all documents filed with the PSC subsequent to the effective date of this Agreement.

D. TCU shall submit to the CITY, upon request, a report showing the amount of water received from the CITY and the amount provided and billed to customers



during any period. TCU shall also provide such other information regarding billing, collection and deficiencies as may be requested by the CITY from time to time.

## VI. Rights.

A. If TCU fails to pay any bill for potable water provided pursuant to this Agreement within thirty (30) days of the date such bill is rendered by the CITY, the CITY reserves the right to then require TCU to deposit a sum equal to the estimated costs for potable water supplied during a period of ninety (90) days at the prevailing metered rate. In event of the filing of any proceeding by TCU in any U.S. Bankruptcy Court, it is agreed by the parties that such sum shall be paid to the CITY as the required reasonable assurance for the continued provision of potable water to TCU by the CITY.

B. The CITY reserves the right to inspect, test, repair, and replace the Master Meter as required.

C. The CITY reserves the right, at law or in equity, by civil action, mandamus or other proceeding, to enforce or compel the performance of any or all covenants contained in the Agreement.

D. The CITY reserves the right to shut off the water and terminate service to TCU after giving TCU 30 days' written notice of its intention to do so due to TCU's failure or refusal to fulfill any obligation or condition set forth in the Agreement. The discontinuance of service for such cause shall not release TCU from its obligation to pay all bills due in accordance with the Agreement. Upon payment of such bills in full, service may be restored in accordance with CITY rules and regulations.

## VII. Water Quality.

A. The CITY shall supply TCU with water of a quality commensurate with the quality standards for public water systems, as set forth in Part III, Chapter 62-550, **Florida Administrative Code**, as amended from time to time.

B. The CITY shall make available for inspection by TCU, at reasonable times after reasonable prior notice, all of the records which the CITY is required to maintain pursuant to **Fla. Admin. Code R. 62-550.720**, as amended from time to time.

C. The CITY shall bear no degree of responsibility for the water quality at any point on TCU's side of the Master Meter. TCU shall be responsible for maintaining the water quality at all points beyond the Master Meter and within TCU's distribution system.

D. TCU shall notify and keep the CITY informed of its responsible certified water supply operator.



E. TCU shall immediately notify the CITY's Utilities Manager of any emergency or condition which may affect the quality of water in either party's system.

F. The CITY reserves the right to make inspections of those facilities which may affect the quality of the water supplied to TCU and to perform any required tests. All such inspections and tests shall be made at reasonable times and upon reasonable prior notice.

#### VIII. Equipment and Operation.

A. TCU shall provide and maintain all service mains, valves, meters and other appurtenances comprising TCU's distribution system.

B. All lines, meters and appurtenances installed or replaced after the effective date of the Agreement shall be in compliance with **Article IV** of the CITY's **Land Development Code** unless otherwise authorized by the CITY's Utilities Manager due to an incompatibility with TCU's existing distribution system.

C. TCU shall be solely responsible for reading the meters within its distribution system, for rendering bills to its customers, and for collecting those bills. A failure to collect monies from its customers shall not excuse TCU from making full payment to the CITY for water provided by the CITY to TCU.

#### IX. Rates.

A. TCU shall pay to the CITY \$1.32 per 1,000 gallons of potable water provided to TCU through the Master Meter. Bills for water provided shall be rendered monthly, are due when rendered, and shall be paid within 15 days following the original date of billing. A 10% late charge shall be assessed on any bill paid later than 20 days after being rendered. If any bill is not paid within 30 days from the original date of billing, the CITY may proceed in accordance with paragraph VI of the Agreement.

B. The parties agree that in the event any dispute arises concerning the accuracy of the Master Meter, either party may have the Master Meter tested according to American Water Works Association standards by an independent testing company, at such party's sole expense. In the event such independent test reveals that the Master Meter is inaccurate beyond the manufacturer's range of accuracy, the Master Meter will be assumed to have been inaccurate since the last previous check of the Master Meter, or for a period of six (6) months, whichever time period is less, and the following month's billing will be adjusted to show a credit or an additional charge to TCU for metered flow for that period. Reading of the Master Meter for billing purposes shall occur as nearly as possible to the end of each month.

C. The rate established in paragraph IX.A. hereof shall be hereafter adjusted only at the same time and in the same amount as adjustments are made to the



"in-City" water rate per 1,000 gallons. For example, if the CITY's "in-City" rate is increased from its present level of \$1.93 per 1,000 gallons to \$1.98 per 1,000 gallons, the rate in paragraph IX.A. shall be automatically increased only from \$1.32 per 1,000 gallons to \$1.37 per 1,000 gallons, and the rate increases shall take effect on the same date. The parties agree that the CITY shall not increase its rate to TCU in any way other than that way described in this paragraph IX.C.

D. The CITY agrees that it will provide TCU with at least ninety (90) days' written notice prior to the effective date of any increase in the rate established in paragraph IX.A. of the Agreement.

E. In the event the CITY's Fire Department deems it necessary to flush fire hydrants within the Service Area, or requires the use of water for fire suppression purposes, the City agrees to estimate the amount of potable water actually used during such activities and to deduct the appropriate amount from the next monthly bill rendered to TCU. In the event of a dispute as to the amount of the deduction, the City Manager of the CITY and the President of TCU shall meet and endeavor to negotiate a settlement of such dispute. If no settlement is forthcoming within 30 days of the first such meeting, the dispute shall be presented to the City Commission for resolution, which resolution shall be binding on the parties.

X. **Right to Provide Retail Water and Sewer Service Within the City of Ormond Beach.** The CITY recognizes and acknowledges that TCU is a utility, as defined by Section 367.021(12), Florida Statutes (1995), and is authorized to provide potable water service within the Service Area for the duration of its Certificate of Authorization and any extension thereof.

XI. **Impact Fees.** At the time additional units are added to TCU's customer base, the owners of those units shall be responsible for paying to the CITY the applicable and then current water service impact fee. TCU agrees not to connect any such additional unit to its distribution system until it has verified with the CITY that such payment has been made.

XII. **Purchase of TCU's Assets, Property and Customers.**

A. **Right of First Refusal.** The CITY shall have a right-of-first-refusal to purchase all assets, property, and customers of TCU's water and wastewater system. This right must be exercised, if at all, by executing a contract to purchase the said system identical to any bona fide contract, received by TCU and executed by the prospective non-governmental purchaser. TCU shall send a copy of any such bona fide executed contract to the CITY within five (5) business days of its receipt thereof. The CITY's right shall expire sixty (60) days following receipt of any such bona fide executed contract.

B. **Mandatory Purchase.** Notwithstanding anything to the contrary contained in this Agreement, in the event the CITY violates or breaches the provisions of



paragraph IX.C., then the CITY shall be deemed to have elected to acquire all the assets, property and customers both tangible and intangible, that comprise TCU's system in accordance with the procedures established in Section 180.16, Florida Statutes, as amended from time to time. Until all proceedings are accomplished as contemplated under Section 180.16, Florida Statutes, as amended from time to time, TCU shall have the right to continue to provide water and sewer service to its customers in the Service Area and the CITY shall continue to provide potable water service in accordance with the terms of this Agreement.

XIII. **No Further Service Area Expansion.** TCU agrees that it will not henceforth seek to expand the specific service area beyond the Tymber Creek Planned Unit Development or as encompassed within its Certificate of Authorization as issued by the PSC as generally described in Exhibit "A" hereof without the consent of the City Commission.

XIV. **Attorneys' Fees and Costs.** In connection with any litigation, including appellate proceedings, arising out of the Agreement, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs. This paragraph shall not apply to any proceeding contemplated by paragraph XII.

XV. **Effective Date.** The Agreement shall take effect on the date on which the Service Area becomes annexed into the corporate limits of the City.

XVI. **Notices; Proper Form.** All notices or other communications hereunder, other than those specifically required to be given to other persons shall be in writing and shall be deemed duly given if delivered in person or sent by certified mail, return receipt requested, postage prepaid and addressed as follows:

City Manager  
City of Ormond Beach  
Post Office Box 277  
Ormond Beach, FL 32175-0277

President  
Tymber Creek Utilities, Inc.  
1951 State Road 40  
Ormond Beach, FL 32174

XVII. **Entire Agreement.** No prior or present agreements or representations shall be binding upon any of the parties hereto unless incorporated in the Agreement. No modification or change in the Agreement shall be valid or binding upon the parties unless in writing, approved by the City Commission and by the Board of Directors of TCU and executed by the appropriate officers and officials of each party.

XVIII. **Binding Agreement.** The provisions of the Agreement shall inure to and be binding upon the respective legal representatives, successors and assigns of the parties to the Agreement.

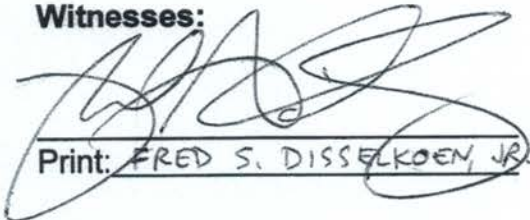
XIX. **Time of the Essence.** Time is hereby declared of the essence to the lawful performance of the duties and obligations contained in this Agreement.

XX. **Applicable Law.** This Agreement and the provisions contained herein shall be construed, controlled, and interpreted according to the laws of the State of Florida.

XXI. **Term: Enforcement.** This Agreement shall, once it takes effect, be perpetual. Any party may avail itself of any legal or equitable remedies, including specific performance, in order to enforce the terms of this Agreement.

**IN WITNESS WHEREOF,** the parties hereto have set their hands and seals the day and year first above written.

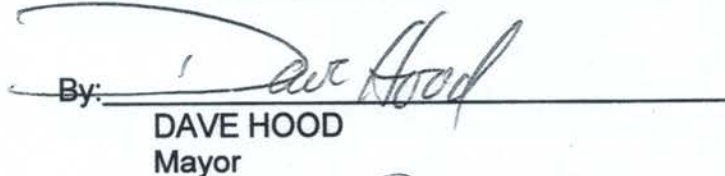
**Witnesses:**

  
Print: FRED S. DISSELKOEN, JR.

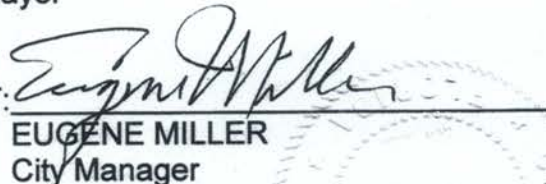
  
Print: Randal A. Hayes

**As to the City**

**CITY OF ORMOND BEACH**

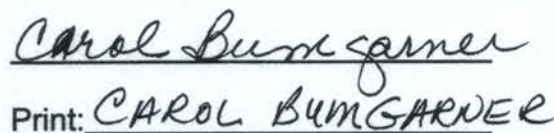
By:   
DAVE HOOD  
Mayor

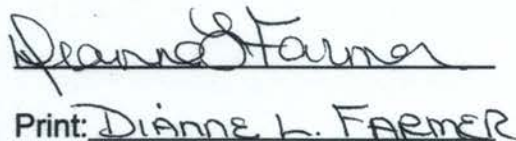
ATTEST:

  
EUGENE MILLER  
City Manager

[CITY SEAL]

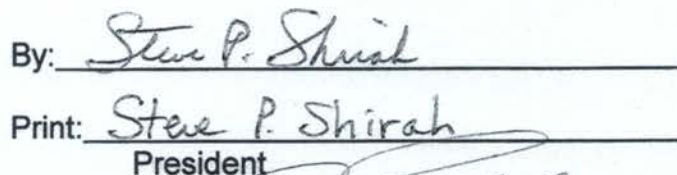
**Witnesses:**

  
Print: CAROL BUMGARNER

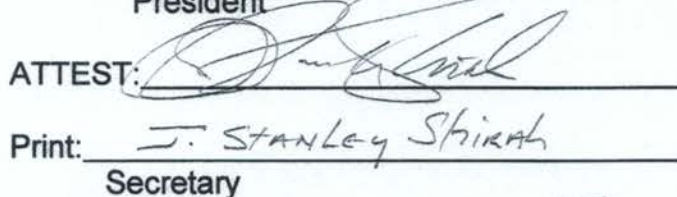
  
Print: DIANNE L. FARMER

**As to TCU**

**TYMBER CREEK UTILITIES, INC.**

By:   
Print: Steve P. Shirah  
President

ATTEST:

  
Print: J. STANLEY SHIRAH  
Secretary

[CORPORATE SEAL]

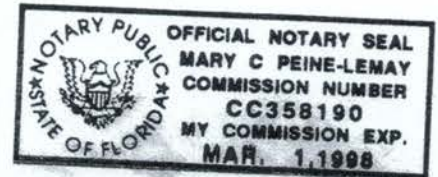


STATE OF FLORIDA  
COUNTY OF VOLUSIA

The foregoing instrument was acknowledged before me this 30th day of July, 1996, by **DAVE HOOD** and **EUGENE MILLER**, as the Mayor and the City Manager, respectively, of the CITY OF ORMOND BEACH, FLORIDA, on behalf of the CITY OF ORMOND BEACH. He is personally known to me or has produced as identification and did (did not) take an oath.

Mary C Peine Lemay  
Notary Public

Notary Name Printed  
My Commission Expires:



STATE OF FLORIDA  
COUNTY OF Volusia

BEFORE ME, a Notary Public, personally appeared Steve P. Shirah, and J. Stanley Shirah who are President and Secretary, respectively, of TYMBER CREEK UTILITIES, INC., a Florida corporation, and who is personally known to me or who did produce as identification and who did/did not take an oath on this 30th day of July, 1996.

Carol C Bumgarner  
Notary Public

Notary Name Printed **CAROL C. BUMGARNER**  
My Commission Expires **NOTARY PUBLIC, STATE OF FLORIDA**  
**COMM. EXP. MARCH 22, 1997**  
**#CC264501**



# EXHIBIT "A"

ALL OF TYMBER CREEK SUBDIVISION AND LOST CREEK SUBDIVISION, DEVELOPED OR UNDEVELOPED,  
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Parcel #1- The South 1/4 of the East 1/2 of the Northwest 1/4 except the west 25 feet in Hull Road, and the Northeast 1/4 of the Southwest 1/4 North of creek (Little Tomoka River) except the west 25 feet in Hull Road, Section 25, Township 14 South, Range 31 East, Volusia County, Florida containing 41 Acres, more or less.

Parcel #2- The North 1/2 of the South 1/2 of the East 1/2 of the Northwest 1/4 except the west 25 feet in Hull Road, Section 25, Township 14 South, Range 31 East, Volusia County, Florida, containing 19.462 Acres..

Parcel #3- The Northeast 1/4 of the Northwest 1/4 except the west 25 feet in Hull Road, Section 25, Township 14 South, Range 31 East, Volusia County, Florida, being 39.021 Acres.

Parcel #4- A portion of the Northeast 1/4 of Section 25, Township 14 South, Range 31 East, described as follows:  
As a point of reference, commence at the Northeast corner of Section 25 Township 14 South, Range 31 East; Thence South 88 degrees 03 minutes 10 seconds West a distance of 1306.37 feet to a point in the Westerly right-of-way line of Interstate 95 (a 300 foot right-of-way as used) which is the point of beginning of the following described parcel; Thence South 16 degrees 57 minutes 20 seconds East along the Westerly right-of-way line of said interstate 95 a distance of 1333.37 feet to a point; Thence South 86 degrees 26 minutes 21 seconds West a distance of 2034.63 feet to a point; Thence North 0 degrees 44 minutes 20 seconds West a distance of 1296.89 feet to a point; Then North 86 degrees 22 minutes 40 seconds East a distance of 1661.89 feet to the point of beginning. Said parcel contains 55.0 Acres.

Parcel #5- A portion of the Southeast 1/4 of Section 24, Township 14 South, Range 31 East, described as follows:  
As a point of reference, commence at the Southeast corner of said Section 24, Township 14, South, Range 31 East; Thence South 88 degrees 3 minutes 10 seconds West a distance of 1306.37 feet to a point in the Westerly right-of-way line of Interstate 95 (a 300 foot right-of-way as used) which is the point of beginning of the following described parcel; Thence South 86 degrees 22 minutes 40 seconds West a distance of 1661.89 feet to a point; Thence North 0 degrees 58 minutes 06 seconds West a distance of 1383.16 feet to a point; Thence North 88 degrees 29 minutes 30 seconds East a distance of 1282.47 feet to a point in the Westerly right-of-way line of said Interstate 95; Thence South 16 degrees 57 minutes 20 seconds East along said Westerly right-of-way line of Interstate 95 a distance of 1371.34 feet to the point of beginning. Said parcel contains 45.8 Acres.

Parcel #6- That part of the following described parcel that lies Westerly of Interstate 95 (a 300 foot right-of-way). The easterly 264 feet of the Northwest 1/4 of the Southeast 1/4 and the Westerly 792 feet of the northeast 1/4 of the Southeast 1/4 of Section 24, Township 14 South, Range 31 East, Volusia County, Florida, excepting therefrom these portions used for Hull Road and for Interstate "I-95" Highway. Said parcel contains 2.10 Acres.

Parcel #7-(Lost Creek) A Part of the Southwest 1/4 of the Northeast 1/4 of Section 25, Township 14 South, Range 31 East, lying North of the Tomoka River and East of Groover Branch Creek, in Volusia County, Florida.



Agreement #

AGREEMENT  
FOR  
TREATMENT AND DISPOSAL OF  
DOMESTIC WASTEWATER BIOSOLIDS

This AGREEMENT by and between AMERICAN BIO-CLEAN, INC. and  
Tymber Creek Utilities, Inc.  
whose address is 1951 West Granada Blvd,  
Ormond Beach, Florida 32174 Permit# FL011193  
hereinafter referred to as CLIENT.

WITNESSETH THAT

WHEREAS, American Bio-Clean, Inc. is the owner and operator of a Lime Stabilization Treatment Plant and Nutrient Management Plan, and

WHEREAS, said treatment and disposal site has been approved and is operating under Florida Department of Environmental Protection (FDEP) permit filed in compliance with Chapter 62-640 FAC, and

WHEREAS, American Bio-Clean, Inc. has the excess capacity at the Lime Stabilization Treatment Plant and Nutrient Management Plan, to receive the biosolids from this Client.

WHEREAS, the client owns and operates the domestic wastewater treatment plan permitted as American BioClean Inc., herein referred to as "SOURCE," and has the need to dispose of the wastewater biosolids generated by the "SOURCE," and

WHEREAS, the client and American Bio-Clean, Inc. both operate treatment facilities in compliance with Chapter 62-600 FAC and the degree of treatment at the plants is determined according to said Chapter. For the ease of permitting

WHEREAS, the transportation of biosolids required valid permits and licenses in compliance with the Rules of the State of Florida and all other local requirements. Those engaged in the legal business will be referred to as "TRANSPORTERS."

NOWHEREFORE, for and in consideration of the actual terms, covenants and conditions to be complied with on the part of the respective parties hereto, it is agreed as follows:

1. Nothing in this Agreement shall supersede or take precedence over the obligations and responsibility of each party to operate and maintain his individual plant in compliance with the rules of the State of Florida.
2. The CLIENT hereby covenants and agrees:
  - A. To provide a sludge analysis of the wastewater biosolids proposed to be treated prior to the initial removal, and to provide updated and additional sludge analysis in compliance with the frequency and schedule stated in Chapter 62-640, FAC.
  - B. If the CLIENT stabilized the biosolids to level "B" or above, none of said biosolids may be mixed with unstabilized materials. If a mix has occurred, the entire load will be required to be stabilized at the American Bio-Clean, Inc. Plant.
  - C. The CLIENT shall pay for the treatment and disposal as dictated in the AGREEMENT PAY SCHEDULE attached to this Contract.
  - D. The CLIENT warrants that the biosolids delivered to the GENERATOR shall not contain any hazardous, toxic or radioactive waste or substances as defined by applicable federal, state, and local laws or restrictions.
  - E. The CLIENT shall pay for and arrange for transportation of biosolids by a TRANSPORTER if other than GENERATOR.



- F. The CLIENT shall maintain the following information for a manifest system to assure that the biosolids are getting from the SOURCE to the GENERATOR: 1) Date and Time 2) Amount of Biosolids 3) Degree of Stabilization (if applicable) 4) TRANSPORTER COMPANY NAME 5) Signature of Driver. A copy of the information maintained shall be provided upon delivery of the biosolids to the GENERATOR'S Plant. If the GENERATOR is not the transporter of biosolids for this facility, the Client shall notify the GENERATOR when biosolids have been taken from this facility and by whom. This will help to insure the biosolids reach the intended, state-required treatment and disposal facility.

American Bio-Clean, Inc. hereby covenants and agrees:

- A. To maintain, monitor and continue to operate the lime stabilization plant and biosolid disposal site in compliance with Chapter 62-640, FAC and the requirements of its permit.
- B. To accept all responsibility for the proper measurements, stabilization and land application for the proper disposal of the biosolid as required by Chapter 62-640 FAC.
- C. To maintain a record of the total quantity of biosolids land applied, and will file with FDEP an annual Summary of the total quantity of residuals, heavy metals and nitrogen land applied, in which this plant is a contributor thereof, to meet the GENERATOR'S certification requirements of the Nutrient Management Plan for this PLANT.
- D. To maintain a record for the purpose of assuring that biosolids leaving the CLIENT arrive at the GENERATOR'S Plant containing the following: 1) Date and Time 2) Amount of Biosolids 3) Origin of Biosolids 4) Signature of TRANSPORTER.

E. That he is aware of and will comply with the requirements for proper disposal as described in the permit for the SOURCE.

4. It is further understood by both Parties that:

A. Upon arrival on site for treatment, residuals from the CLIENT'S plant, American Bio-Clean, Inc. has the right to refuse treatment of said residuals, if it demonstrates properties that are not consistent with Land Application. The CLIENT will be responsible for the removal and proper disposal of the material.

5. It is specifically agreed and understood by all Parties hereto that the rate stated in the Financial Agreement is for the proper treatment and disposal of biosolids for SOURCE, delivered by TRANSPORTER, to the American Bio-Clean, Inc. Site.

6. The term of this Agreement shall be for one year from the effective date of service and shall be automatically renewed for like terms unless either party shall give written notice of termination (Certified Mail) to the other at least sixty (60) days prior to termination of the initial term or any renewal term.

7. This Agreement shall be binding on the Parties and their successors and assigns.

IN WITNESS WHEREOF, the parties have caused these presents to be executed this 3/11, 2021.

  
Witness

By:

  
American Bio-Clean, Inc.

Timber Creek Utilities, Inc.

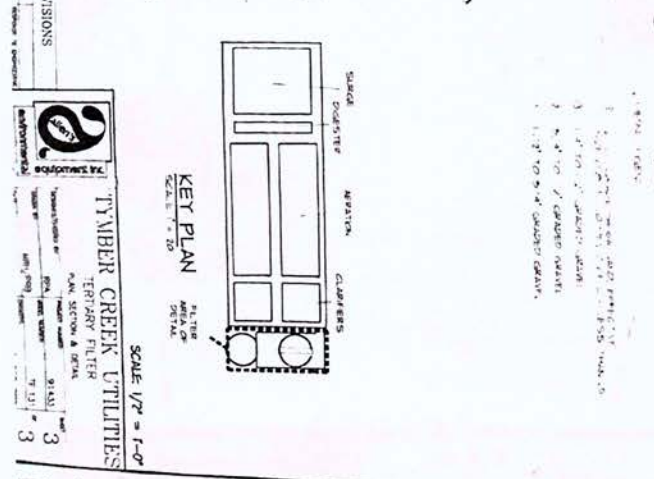
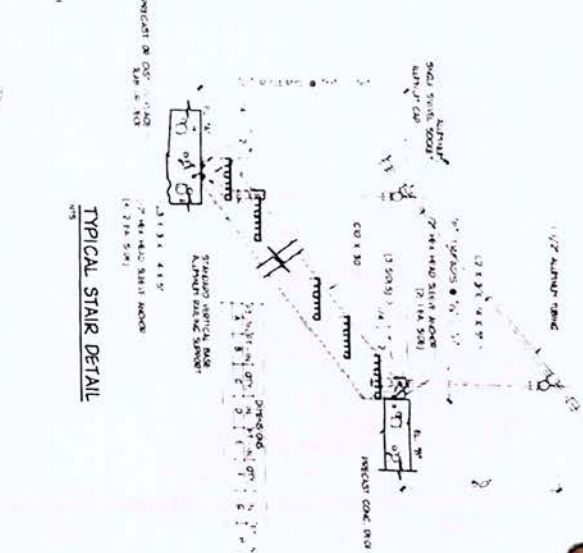
By:

  
Representative

T. Brent Jenkins, Successor Trustee of  
Fifth Restatement of the Revocable Trust  
Agreement of J. Stanley Shirah, sole  
stockholder



**ATTACHMENT D**  
**As Built Plans and Maps**





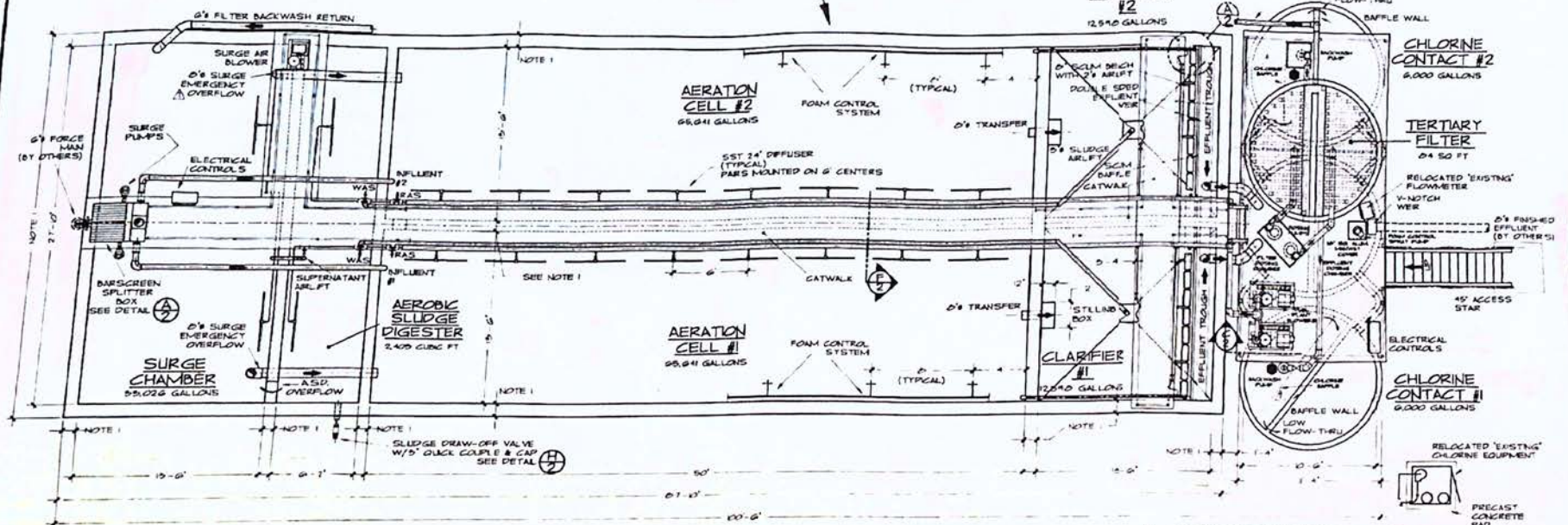
# **SURGE PUMPS**

CAPACITY EACH: 15 GPM @ 1' TDH  
(25% OF A.C.F.)  
SIZE: 5/4 HP, 2500 R.P.M.  
DISCHARGE: 2" N.P.T.  
CONTROL: DUPLEXED (3 FLOWS)

# **PLANT AIR BLOWERS**

CAPACITY EACH: 100 SCFM @ 9.0 PSI  
SIZE: 50 HP, 2500 R.P.M.  
DISCHARGE: 4" F.L.G.  
CONTROL: ALTERNATED

SCALE 1/4" = 1'-0"

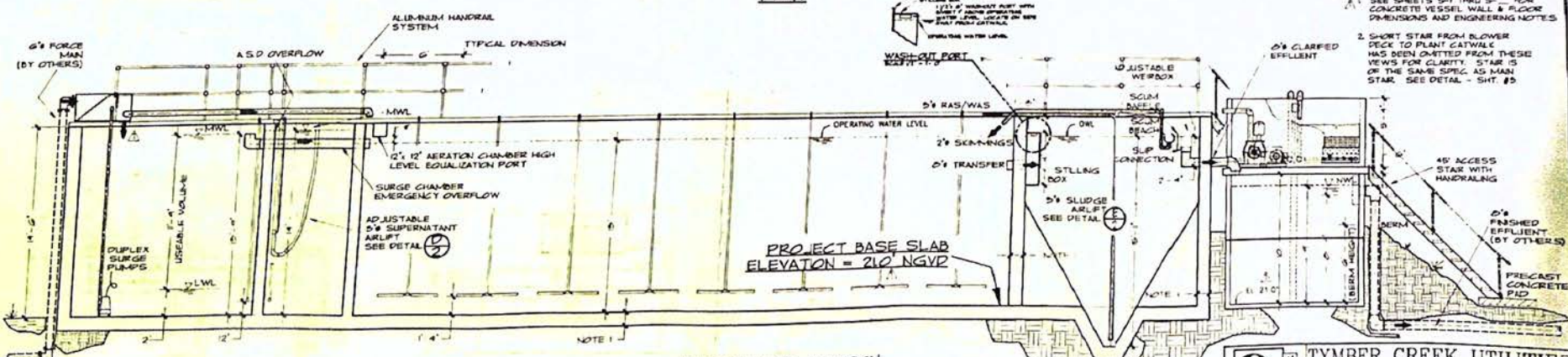


# **PLAN**

● = DISINFECTANT APPLICATION POINT

# **NOTES**

- SEE SHEETS 5-1 THRU 5-4 FOR CONCRETE VESSEL WALL & FLOOR DIMENSIONS AND ENGINEERING NOTES
- SHORT STAIR FROM BLOWER DECK TO PLANT GATWALK HAS BEEN OMITTED FROM THESE VIEWS FOR CLARITY. STAIR IS ON THE SAME SPEC. AS MAIN STAIR. SEE DETAIL - SHT. #5



# **ILLUSTRATIVE SECTION**

REVISIONS	
1	10/18/91 RESPONSE TO COMMENTS

**TYMBER CREEK UTILITIES**  
CAST-IN-PLACE CONCRETE WWTPL  
PLANT PLAN & ILLUSTRATIVE SECTION

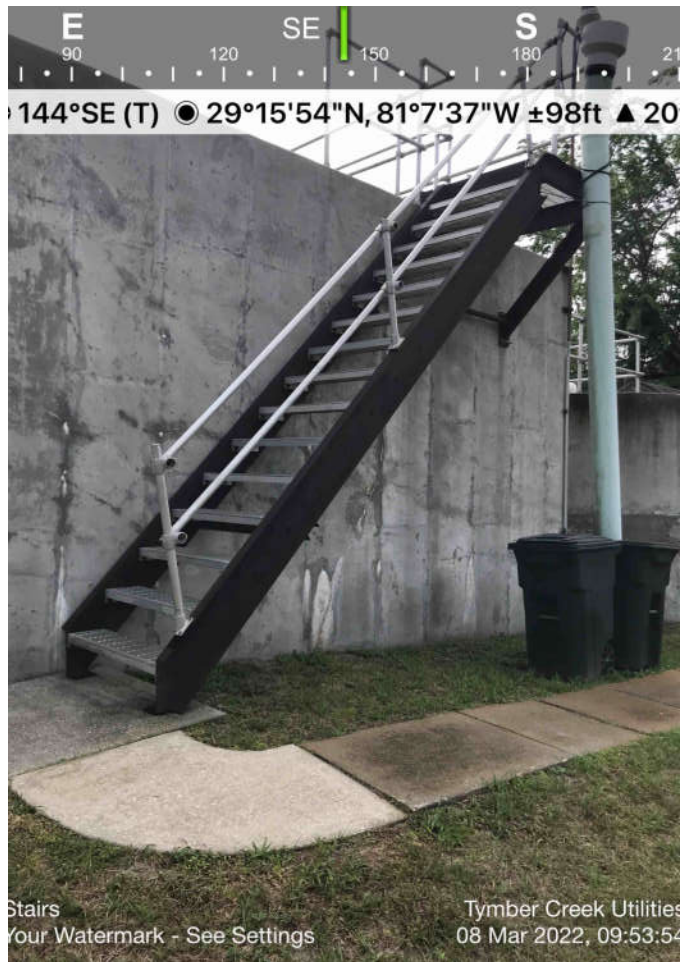
DESIGNED BY	DATE	PROJECT NUMBER	SHEET
ENVIRONMENTAL	August 20, 1991	01433	1
CHECKED BY	DATE	PROJECT NUMBER	SHEET
		01433	3

August 20, 1991 131,000 GPD

# ATTACHMENT E

System Photographs

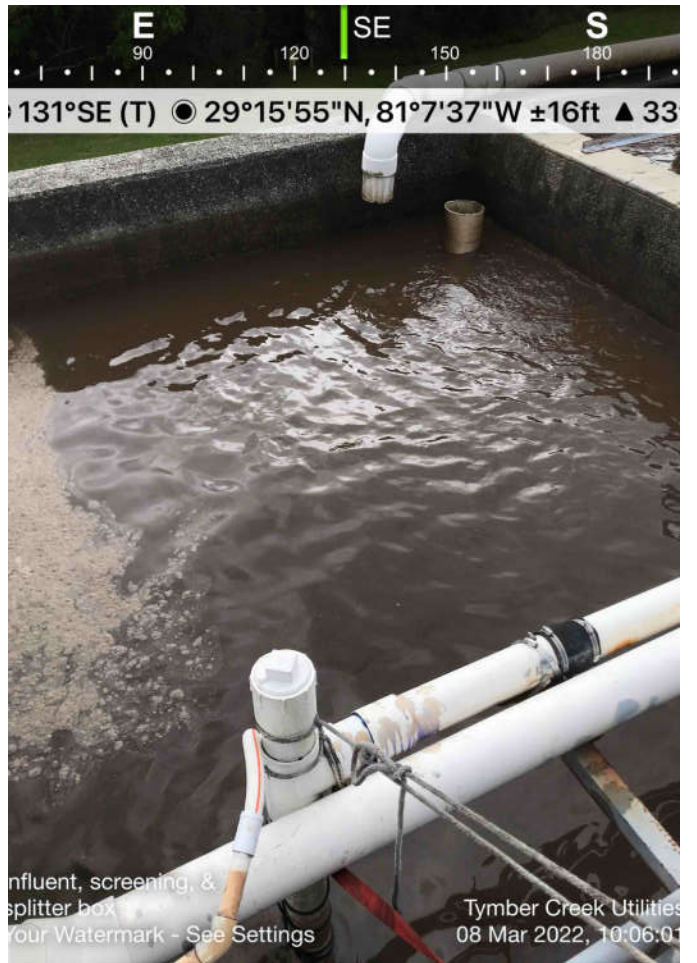




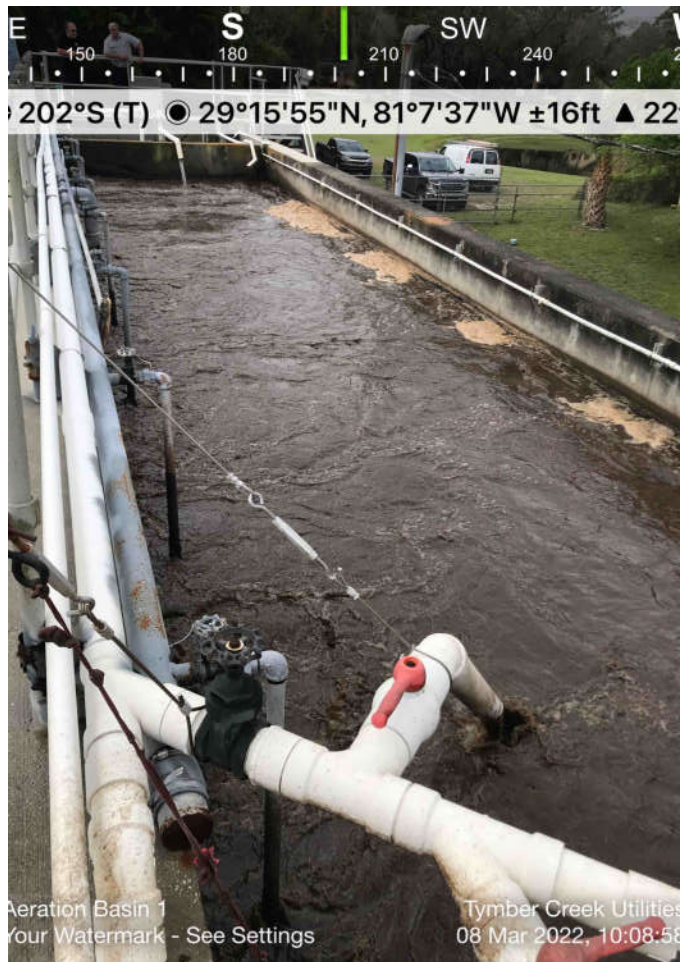




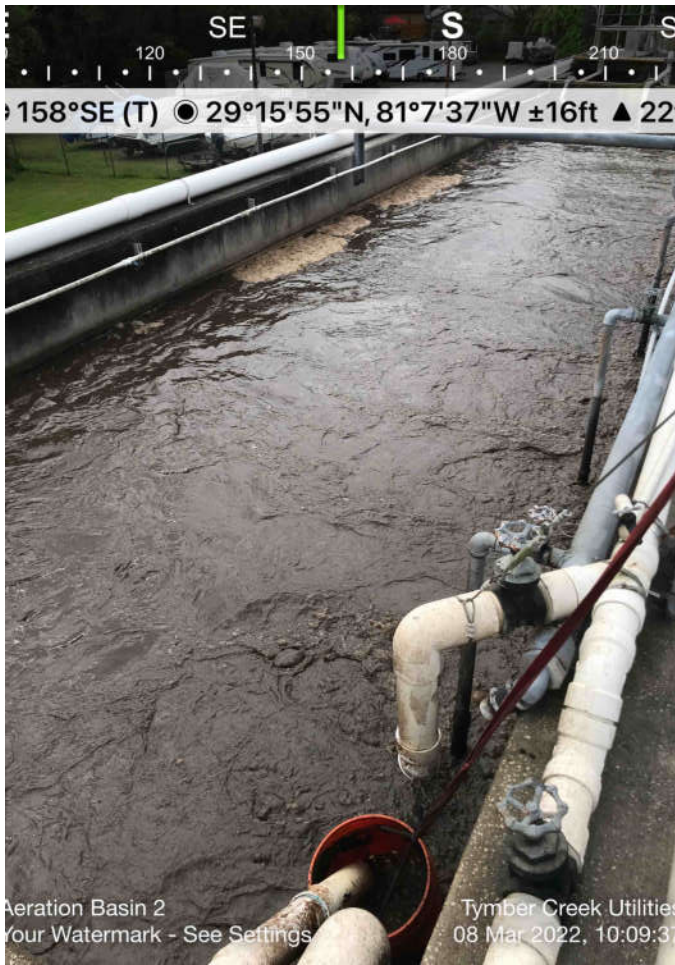








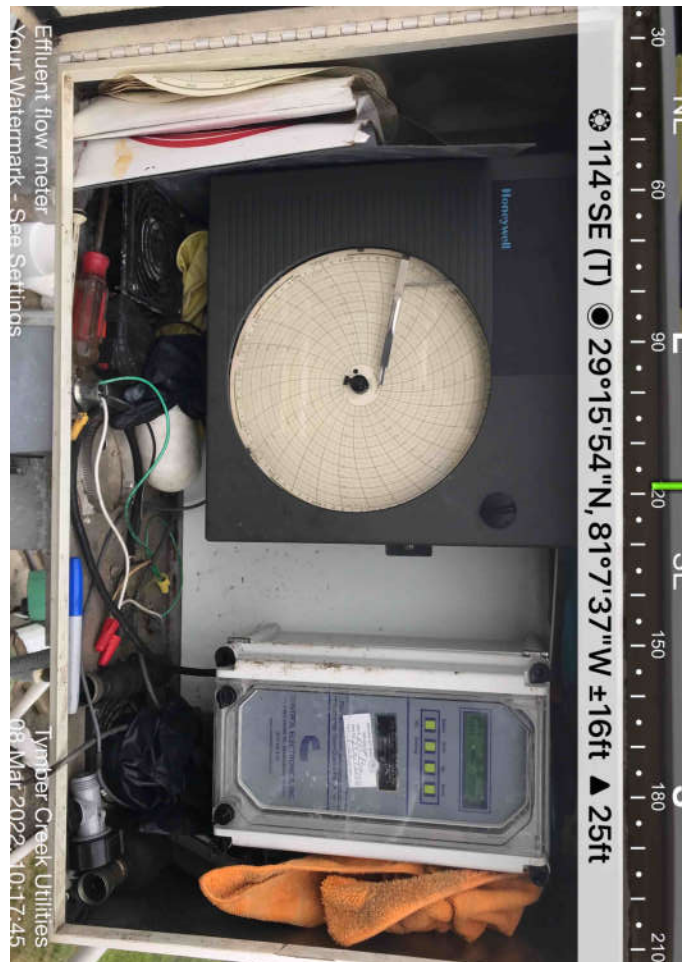














NW N NE 330 0 30 60

19°N (T) ● 29°15'54"N, 81°7'37"W ±16ft ▲ 26

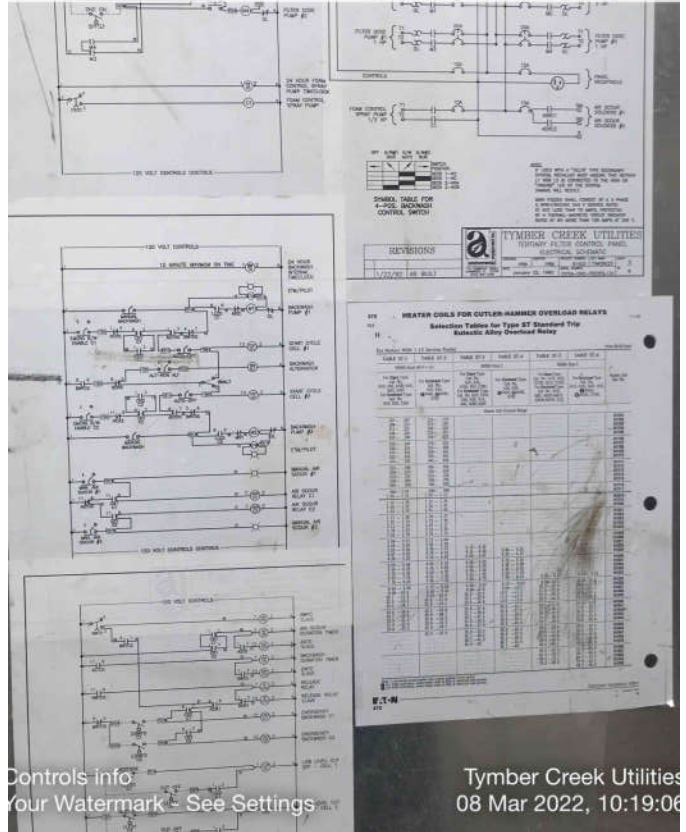


Controls  
Your Watermark - See Settings

Tymber Creek Utilities  
08 Mar 2022, 10:18:27

SW W NW 240 270 300 330

281°W (T) ● 29°15'54"N, 81°7'37"W ±16ft ▲ 23



Controls info  
Your Watermark - See Settings

Tymber Creek Utilities  
08 Mar 2022, 10:19:06

N NE E 30 0 30 60 90

35°NE (T) ● 29°15'54"N, 81°7'37"W ±16ft ▲ 20

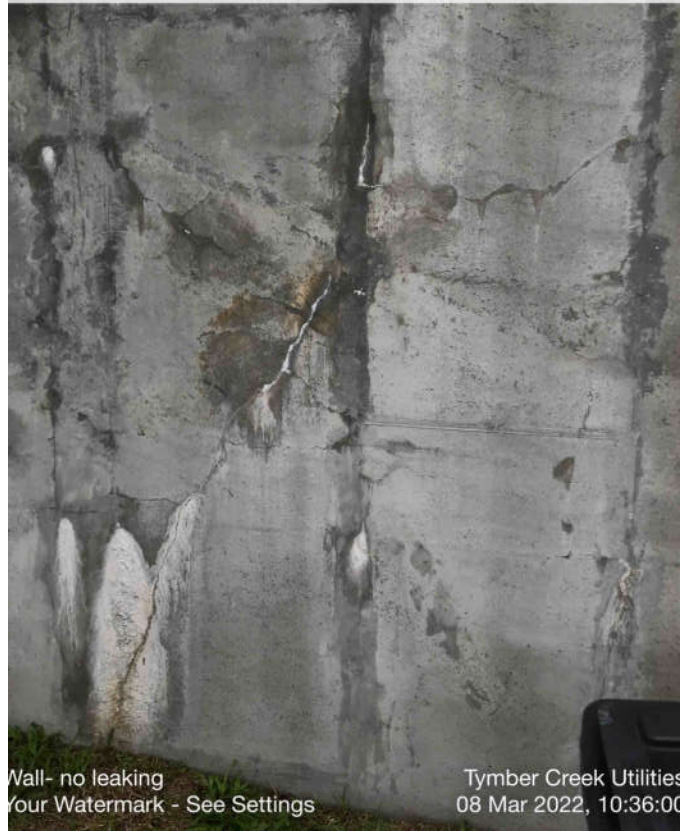


After effluent weir  
Your Watermark - See Settings

Tymber Creek Utilities  
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NE E SE 60 90 120 150

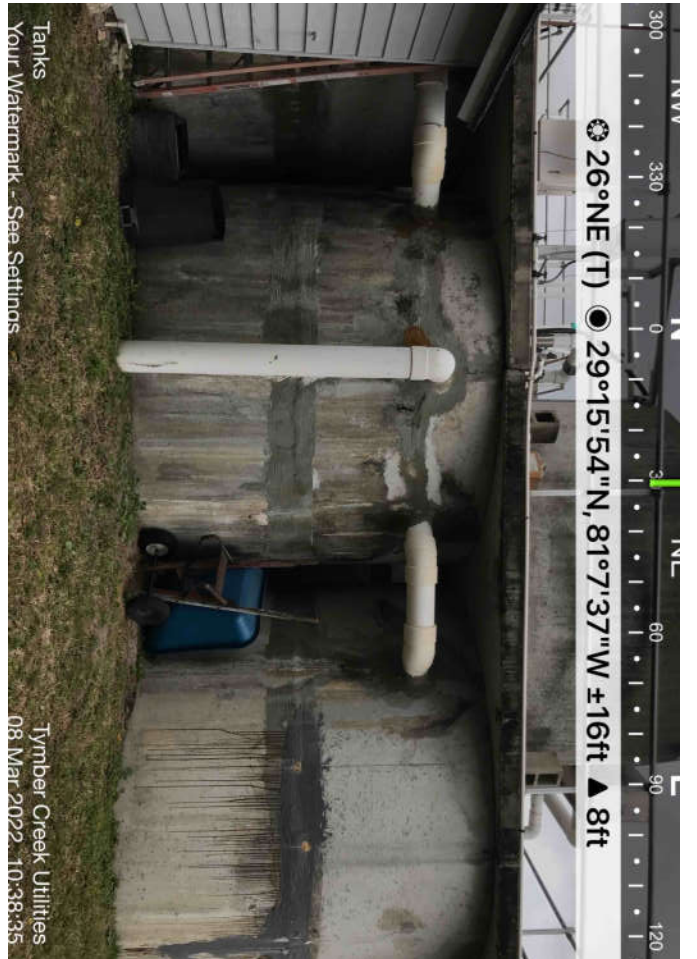
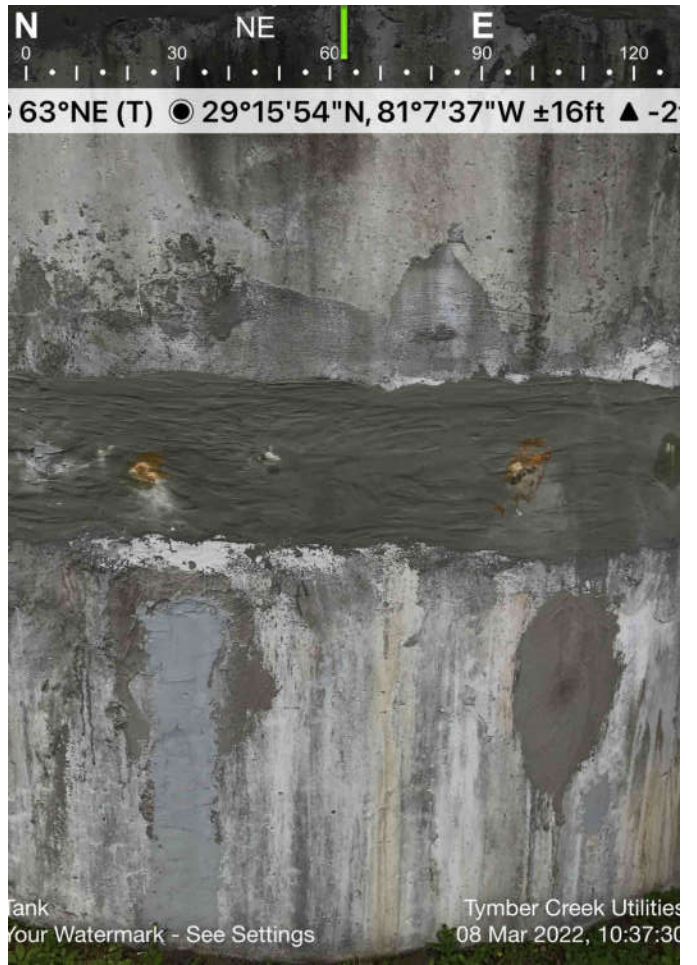
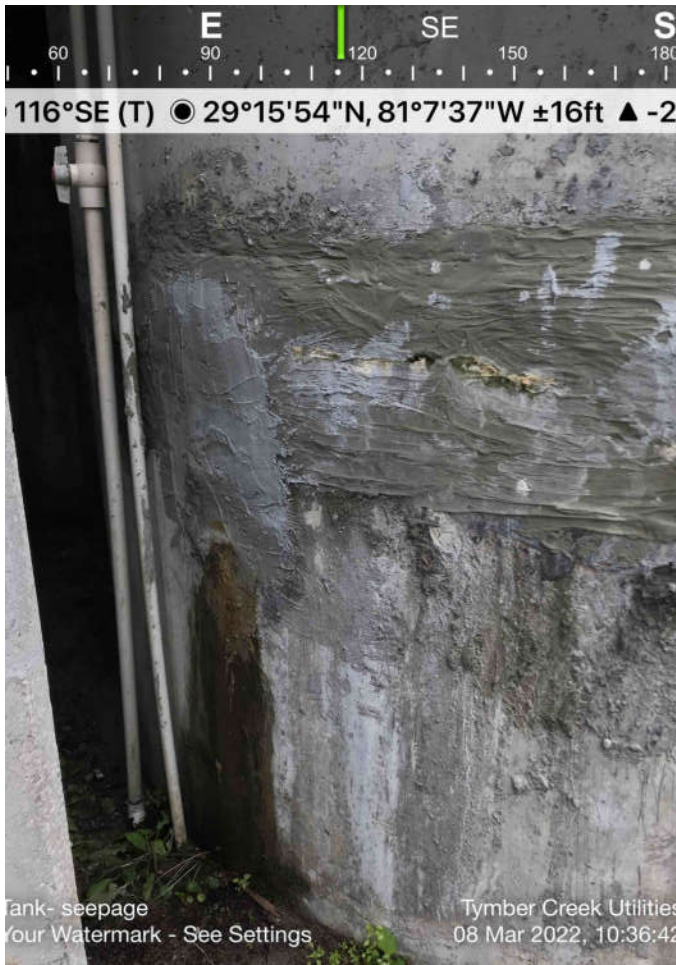
98°E (T) ● 29°15'54"N, 81°7'37"W ±32ft ▲ 13



Wall- no leaking  
Your Watermark - See Settings

Tymber Creek Utilities  
08 Mar 2022, 10:36:00















SW 240 W 270 NW 300 330

285°W (T) ● 29°15'56"N, 81°7'38"W ±16ft ▲ 25



S 180 SW 210 W 240 270

222°SW (T) ● 29°15'56"N, 81°7'39"W ±16ft ▲ 28



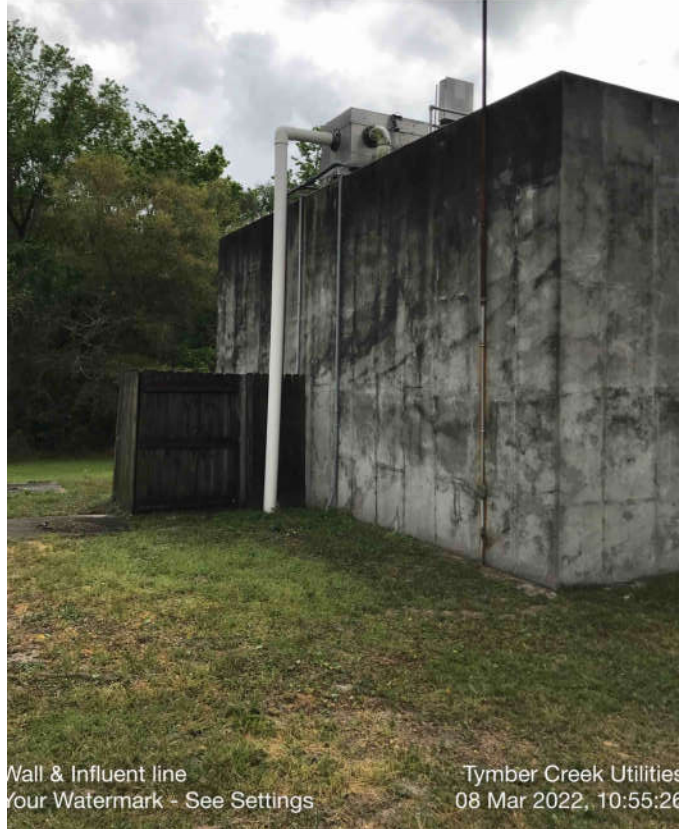
W 270 NV 300 N 330 0

319°NW (T) ● 29°15'57"N, 81°7'40"W ±154ft ▲ 23



E 90 SE 120 S 150 180

125°SE (T) ● 29°15'55"N, 81°7'37"W ±16ft ▲ 18







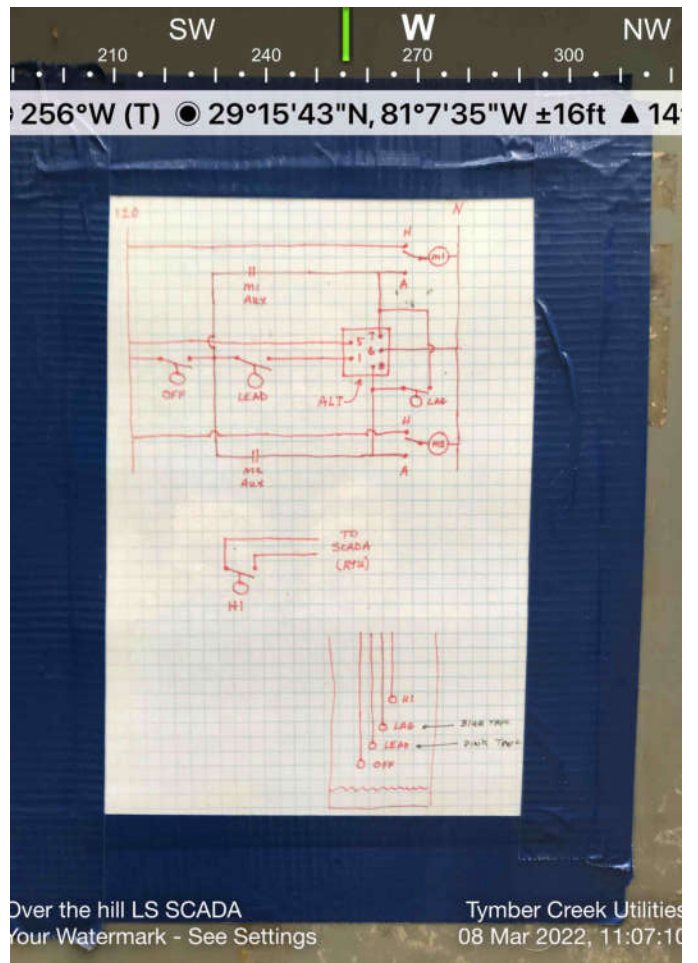
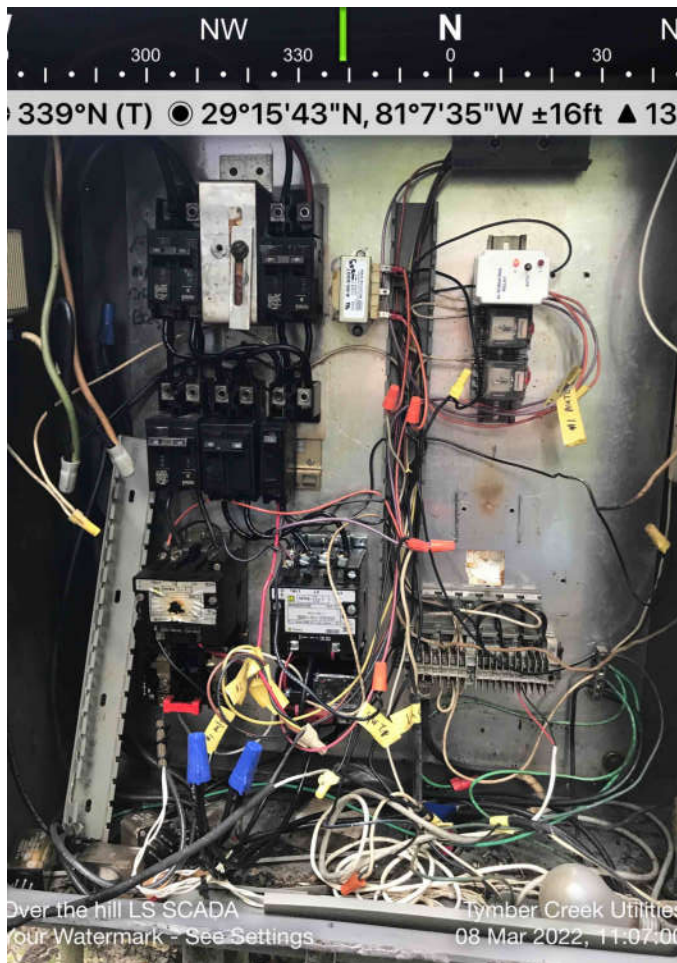












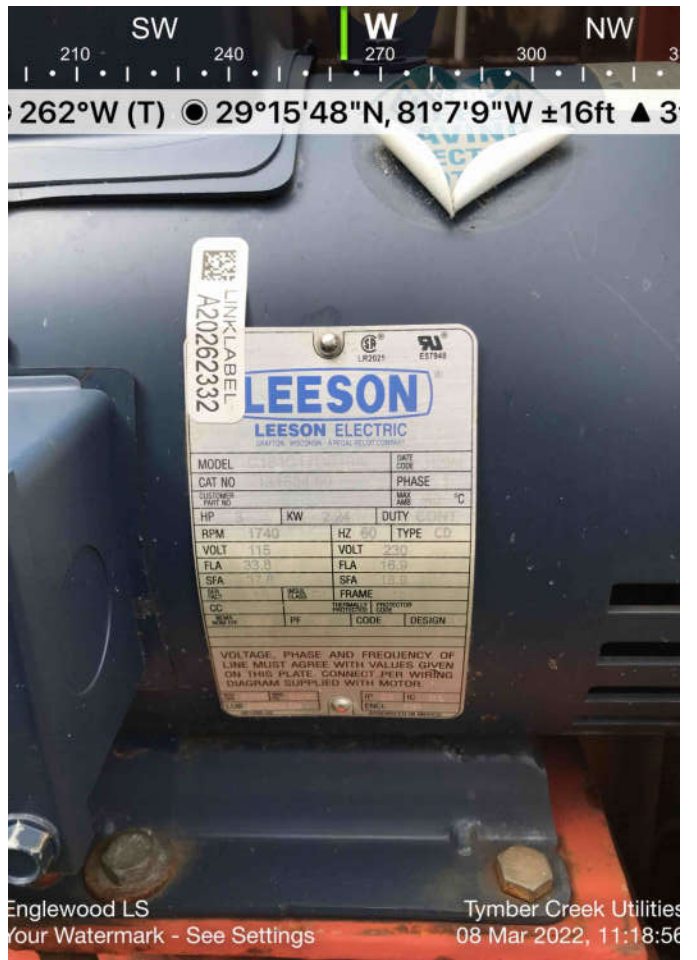




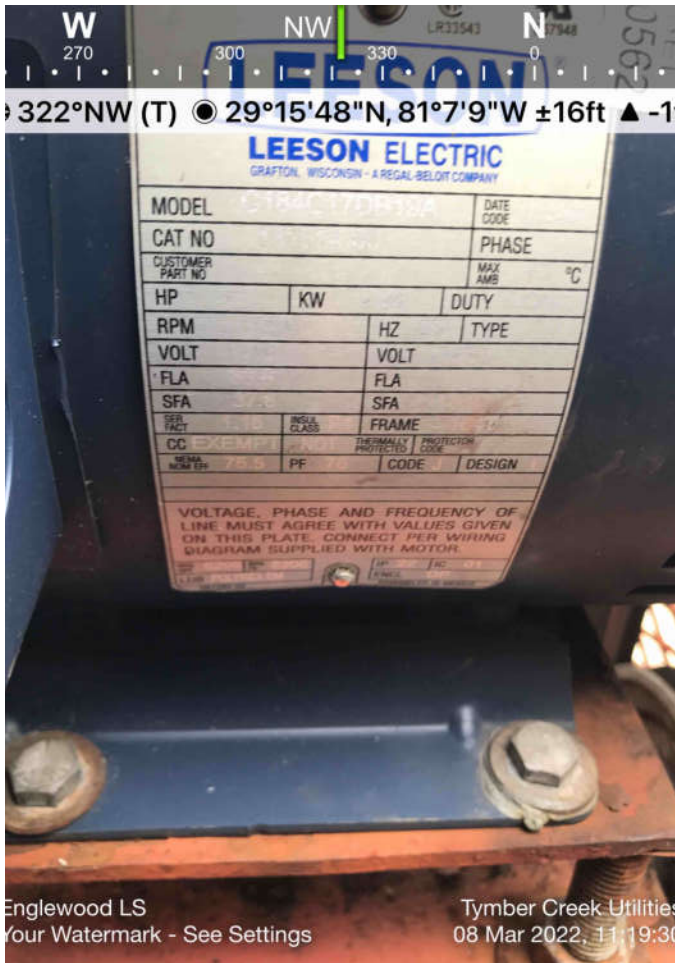














# ATTACHMENT F

## Local Vendor Recommendations

- a. Recommendations for local vendors
  - i. O&M Companies: Wetherell Treatment Systems
  - ii. Labs or Testing Companies: Pace Analytical Services, LLC
  - iii. Sludge Haulers: American Bio-Clean RMF
  - iv. General Contractors
  - v. Well Drillers
  - vi. Electricians

# **EXHIBIT 2**

**WATER FACILITY REPORT**  
**TYMBER CREEK UTILITIES, INC.**

**LOCATION:**  
**VOLUSIA COUNTY, FLORIDA**

**PREPARED FOR:**  
Central States Water Resources  
500 Northwest Plaza Dr., Suite 500  
St. Ann, MO 63074


**DATE:**  
May 2022

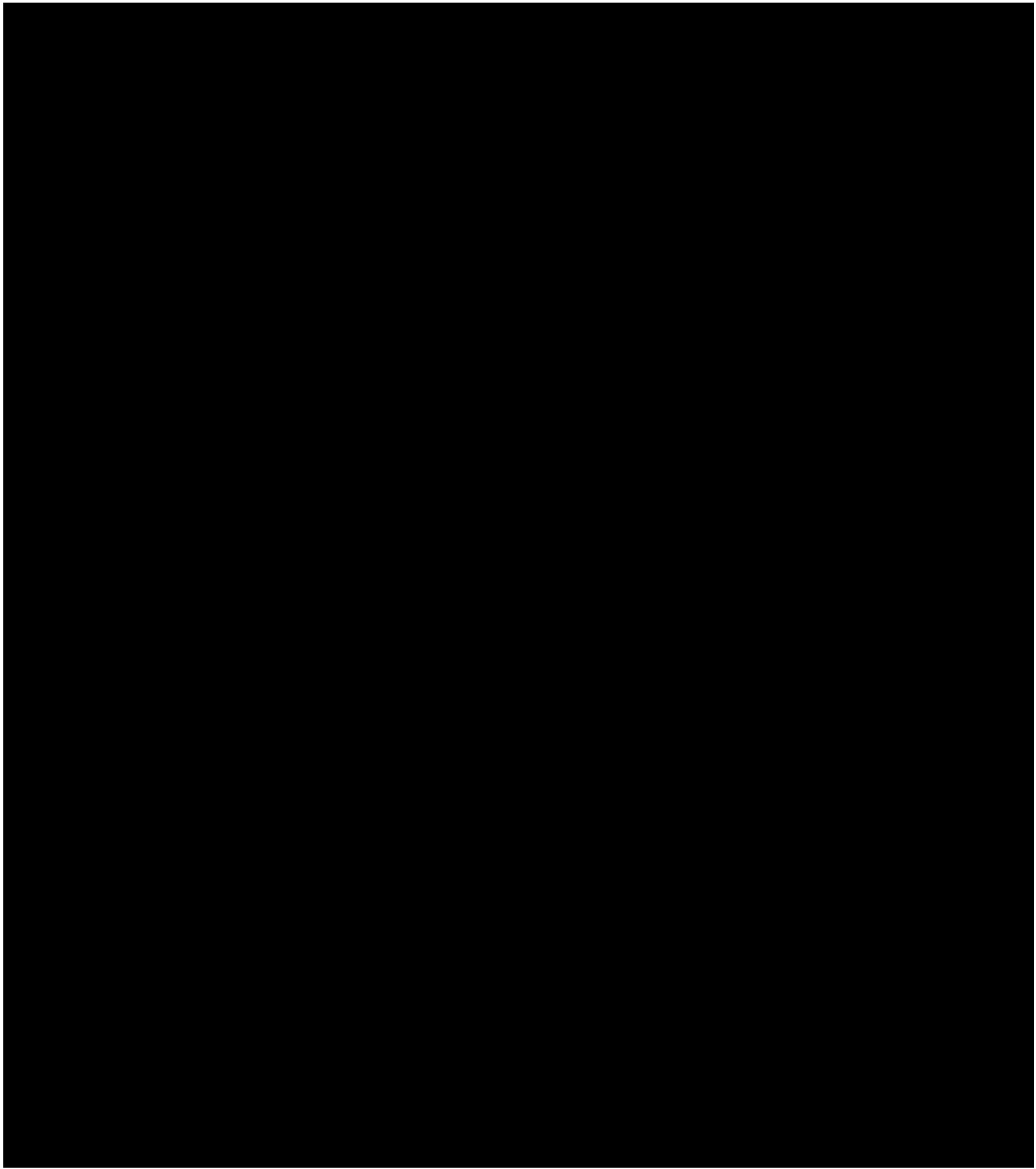


**PREPARED BY:**  
***Clearpoint***  
**CONSULTING ENGINEERS, P.A.**

6652 U.S. Highway 98  
Hattiesburg, MS 39402

**Engineering Memo**  
**Water – Tymber Creek Utilities, Inc. (Distribution System Only)**  
**Volusia County, FL**  
**March 2022**





**SUPPORTING DOCUMENTATION TO**  
**WATER ENGINEERING MEMO**  
**TYMBER CREEK UTILITIES, INC.**

**LOCATION:**  
VOLUSIA COUNTY, FLORIDA

**PREPARED FOR:**  
Central States Water Resources  
500 Northwest Plaza Dr., Suite 500  
St. Ann, MO 63074

**DATE:**  
May 2022



**PREPARED BY:**  
***Clearpoint***  
**CONSULTING ENGINEERS, P.A.**

6652 U.S. Highway 98  
Hattiesburg, MS 39402



## **TABLE OF CONTENTS**

### **ATTACHMENTS**

Attachment A – Agreements Made with Surrounding Utilities

- Water Supply Agreement, July 30, 1996

Attachment B – Rough Service Area Map

Attachment C – 2020 Annual Report

Attachment D – System Notes, Facts, and Rates

Attachment E – Asset Lists

Attachment F – Local Vendor Recommendations

# **WATER SUPPLY AGREEMENT**

This Agreement is made and entered into this the 30<sup>th</sup> day of July, 1996 (the "Agreement"), between the CITY OF ORMOND BEACH, a Florida municipal corporation (the "CITY"), and TYMBER CREEK UTILITIES, INC., a Florida corporation ("TCU").

## **RECITALS**

1. TCU currently owns a water utility system ("TCU's System") currently certificated to provide water service to properties and customers in Volusia County, Florida.
2. Rather than purchasing TCU's System, the CITY has proposed that TCU purchase potable water from the CITY on a wholesale basis and acknowledges the continuing permanent benefit which the CITY will receive by virtue of being able to annex the service area hereafter described and to provide wholesale water service to TCU and its current and future customers pursuant to the terms hereof.
3. The CITY's ability to provide wholesale water service is deemed by the CITY to be of economic benefit to the CITY and its citizens.
4. The feasibility of TCU's operation of its water system is dependent upon the CITY's provision of wholesale water service.
5. In reasonable reliance upon the eventual provision of wholesale water service, TCU has foregone the expansion and renovation of its existing water treatment and production facilities.
6. TCU and the CITY believe and acknowledge that it is in the best interest of each party to enable the provision of wholesale water service by the CITY to TCU, and therefore, the parties hereto agree that this Agreement is entered into under the CITY's proprietary, and not governmental, capacity.
7. The CITY and TCU hereby acknowledge and warrant to each other that this Agreement and any future acts as required hereby are binding and enforceable on the CITY and TCU in accordance with their terms.
8. The agreement of the CITY to provide wholesale water service as set forth in this Agreement and to be bound by this Agreement, as well as the CITY's assurance to TCU that this Agreement is enforceable against the CITY and that the CITY will not seek to thwart enforcement based on any claim of invalidity, are all material inducements to TCU to enter into this Agreement, and TCU would not enter into this Agreement but for such agreement and assurances by the CITY.



9. TCU and the CITY have already made and will continue to make financial commitments in contemplation of entering into this Agreement.

10. The CITY is willing to provide wholesale water service to TCU, and TCU is willing to receive wholesale water service from the CITY, only as under the terms of this Agreement.

11. The CITY is willing to enter into an agreement with TCU to supply potable water to customers residing within the specific service area for potable water included within TCU's Certificate of Authorization as issued by the Florida Public Service Commission (the "PSC"), as described on Exhibit "A" attached hereto which is intended to include the entire Tymber Creek Planned Unit Development as approved by Volusia County on the date of execution of this Agreement (the "Service Area").

ACCORDINGLY, in consideration of the above-stated recitals, in consideration of mutual benefits in the public interest, and in consideration of other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

I. **Recitals.** The foregoing recitals are true and correct and are hereby incorporated herein by reference, and form a material part of this Agreement. All exhibits to this Agreement are hereby deemed a part hereof.

II. **Service to be Provided.**

A. The CITY agrees to furnish and TCU agrees to purchase a supply of potable water in accordance with the terms of this Agreement. The supply of potable water shall be delivered and taken through a new eight (8") service line to be constructed by TCU and connected to a master meter (the "Master Meter") which will be installed by the CITY at the CITY's expense, on the existing potable water transmission line on the West side of Tymber Creek Road.

B. The potable water furnished pursuant to this Agreement shall be transmitted through transmission lines owned by TCU, to customers residing within the Service Area.

III. **Quantities to be Provided.** The average daily supply of potable water provided by the CITY shall meet all reasonable requirements of customers regularly supplied by TCU in accordance with the provisions of TCU's existing Certificate of Authorization as issued by the PSC. The volume of water is estimated to be 200,000 gallons per day maximum day demand, in addition to the necessary fire flow.



#### IV. Legal.

A. This Agreement is entered into under the authority of the Florida Constitution (including without limitation Article VIII, Section 2(b) thereof), the general powers conferred upon the CITY by statute and otherwise (including without limitation Chapters 159, 163, 166, and 180, Florida Statutes), and the CITY's Charter.

B. The Agreement shall be in force and effect from the date the Service Area is annexed into the corporate limits of the CITY.

C. No officer, employee, or agent of either party, whether elected or appointed, shall have the authority to amend, modify or alter the Agreement or to waive any of its provisions or to bind either party by making any promise or representation not contained in the Agreement.

D. The Agreement may not be assigned or transferred by either party without the prior written consent of the other party, which consent shall not be unreasonably withheld.

E. The CITY will not be responsible in damages for any interruption or failure to supply potable water and shall be indemnified and held harmless by TCU from all damages of any kind, nature and description which may arise as a result of entering into the Agreement and providing potable water under the Agreement. TCU shall include the CITY as an additional insured on all of its liability insurance policies and shall provide evidence thereof to the City Clerk.

#### V. Regulations.

A. TCU may not permit any potable water provided under the Agreement to be used by any customer residing outside of the Service Area without the prior written approval of the City Commission of the CITY ("the City Commission") and, if required, the PSC. This shall not apply to emergency service provided to other water customers of the CITY.

B. At the end of each calendar year, and not later than January 31st of each year, TCU shall provide to the City Manager a copy of TCU's prevailing water rate schedule as applicable to TCU's water customers, which schedule shall include all rates and relevant information and the premise on which rates have been formulated.

C. TCU will provide the City Manager with a copy of all documents filed with the PSC subsequent to the effective date of this Agreement.

D. TCU shall submit to the CITY, upon request, a report showing the amount of water received from the CITY and the amount provided and billed to customers



during any period. TCU shall also provide such other information regarding billing, collection and deficiencies as may be requested by the CITY from time to time.

## VI. Rights.

A. If TCU fails to pay any bill for potable water provided pursuant to this Agreement within thirty (30) days of the date such bill is rendered by the CITY, the CITY reserves the right to then require TCU to deposit a sum equal to the estimated costs for potable water supplied during a period of ninety (90) days at the prevailing metered rate. In event of the filing of any proceeding by TCU in any U.S. Bankruptcy Court, it is agreed by the parties that such sum shall be paid to the CITY as the required reasonable assurance for the continued provision of potable water to TCU by the CITY.

B. The CITY reserves the right to inspect, test, repair, and replace the Master Meter as required.

C. The CITY reserves the right, at law or in equity, by civil action, mandamus or other proceeding, to enforce or compel the performance of any or all covenants contained in the Agreement.

D. The CITY reserves the right to shut off the water and terminate service to TCU after giving TCU 30 days' written notice of its intention to do so due to TCU's failure or refusal to fulfill any obligation or condition set forth in the Agreement. The discontinuance of service for such cause shall not release TCU from its obligation to pay all bills due in accordance with the Agreement. Upon payment of such bills in full, service may be restored in accordance with CITY rules and regulations.

## VII. Water Quality.

A. The CITY shall supply TCU with water of a quality commensurate with the quality standards for public water systems, as set forth in Part III, Chapter 62-550, **Florida Administrative Code**, as amended from time to time.

B. The CITY shall make available for inspection by TCU, at reasonable times after reasonable prior notice, all of the records which the CITY is required to maintain pursuant to **Fla. Admin. Code R. 62-550.720**, as amended from time to time.

C. The CITY shall bear no degree of responsibility for the water quality at any point on TCU's side of the Master Meter. TCU shall be responsible for maintaining the water quality at all points beyond the Master Meter and within TCU's distribution system.

D. TCU shall notify and keep the CITY informed of its responsible certified water supply operator.



E. TCU shall immediately notify the CITY's Utilities Manager of any emergency or condition which may affect the quality of water in either party's system.

F. The CITY reserves the right to make inspections of those facilities which may affect the quality of the water supplied to TCU and to perform any required tests. All such inspections and tests shall be made at reasonable times and upon reasonable prior notice.

#### VIII. Equipment and Operation.

A. TCU shall provide and maintain all service mains, valves, meters and other appurtenances comprising TCU's distribution system.

B. All lines, meters and appurtenances installed or replaced after the effective date of the Agreement shall be in compliance with **Article IV** of the CITY's **Land Development Code** unless otherwise authorized by the CITY's Utilities Manager due to an incompatibility with TCU's existing distribution system.

C. TCU shall be solely responsible for reading the meters within its distribution system, for rendering bills to its customers, and for collecting those bills. A failure to collect monies from its customers shall not excuse TCU from making full payment to the CITY for water provided by the CITY to TCU.

#### IX. Rates.

A. TCU shall pay to the CITY \$1.32 per 1,000 gallons of potable water provided to TCU through the Master Meter. Bills for water provided shall be rendered monthly, are due when rendered, and shall be paid within 15 days following the original date of billing. A 10% late charge shall be assessed on any bill paid later than 20 days after being rendered. If any bill is not paid within 30 days from the original date of billing, the CITY may proceed in accordance with paragraph VI of the Agreement.

B. The parties agree that in the event any dispute arises concerning the accuracy of the Master Meter, either party may have the Master Meter tested according to American Water Works Association standards by an independent testing company, at such party's sole expense. In the event such independent test reveals that the Master Meter is inaccurate beyond the manufacturer's range of accuracy, the Master Meter will be assumed to have been inaccurate since the last previous check of the Master Meter, or for a period of six (6) months, whichever time period is less, and the following month's billing will be adjusted to show a credit or an additional charge to TCU for metered flow for that period. Reading of the Master Meter for billing purposes shall occur as nearly as possible to the end of each month.

C. The rate established in paragraph IX.A. hereof shall be hereafter adjusted only at the same time and in the same amount as adjustments are made to the



"in-City" water rate per 1,000 gallons. For example, if the CITY's "in-City" rate is increased from its present level of \$1.93 per 1,000 gallons to \$1.98 per 1,000 gallons, the rate in paragraph IX.A. shall be automatically increased only from \$1.32 per 1,000 gallons to \$1.37 per 1,000 gallons, and the rate increases shall take effect on the same date. The parties agree that the CITY shall not increase its rate to TCU in any way other than that way described in this paragraph IX.C.

D. The CITY agrees that it will provide TCU with at least ninety (90) days' written notice prior to the effective date of any increase in the rate established in paragraph IX.A. of the Agreement.

E. In the event the CITY's Fire Department deems it necessary to flush fire hydrants within the Service Area, or requires the use of water for fire suppression purposes, the City agrees to estimate the amount of potable water actually used during such activities and to deduct the appropriate amount from the next monthly bill rendered to TCU. In the event of a dispute as to the amount of the deduction, the City Manager of the CITY and the President of TCU shall meet and endeavor to negotiate a settlement of such dispute. If no settlement is forthcoming within 30 days of the first such meeting, the dispute shall be presented to the City Commission for resolution, which resolution shall be binding on the parties.

X. **Right to Provide Retail Water and Sewer Service Within the City of Ormond Beach.** The CITY recognizes and acknowledges that TCU is a utility, as defined by Section 367.021(12), Florida Statutes (1995), and is authorized to provide potable water service within the Service Area for the duration of its Certificate of Authorization and any extension thereof.

XI. **Impact Fees.** At the time additional units are added to TCU's customer base, the owners of those units shall be responsible for paying to the CITY the applicable and then current water service impact fee. TCU agrees not to connect any such additional unit to its distribution system until it has verified with the CITY that such payment has been made.

XII. **Purchase of TCU's Assets, Property and Customers.**

A. **Right of First Refusal.** The CITY shall have a right-of-first-refusal to purchase all assets, property, and customers of TCU's water and wastewater system. This right must be exercised, if at all, by executing a contract to purchase the said system identical to any bona fide contract, received by TCU and executed by the prospective non-governmental purchaser. TCU shall send a copy of any such bona fide executed contract to the CITY within five (5) business days of its receipt thereof. The CITY's right shall expire sixty (60) days following receipt of any such bona fide executed contract.

B. **Mandatory Purchase.** Notwithstanding anything to the contrary contained in this Agreement, in the event the CITY violates or breaches the provisions of



paragraph IX.C., then the CITY shall be deemed to have elected to acquire all the assets, property and customers both tangible and intangible, that comprise TCU's system in accordance with the procedures established in Section 180.16, Florida Statutes, as amended from time to time. Until all proceedings are accomplished as contemplated under Section 180.16, Florida Statutes, as amended from time to time, TCU shall have the right to continue to provide water and sewer service to its customers in the Service Area and the CITY shall continue to provide potable water service in accordance with the terms of this Agreement.

XIII. **No Further Service Area Expansion.** TCU agrees that it will not henceforth seek to expand the specific service area beyond the Tymber Creek Planned Unit Development or as encompassed within its Certificate of Authorization as issued by the PSC as generally described in Exhibit "A" hereof without the consent of the City Commission.

XIV. **Attorneys' Fees and Costs.** In connection with any litigation, including appellate proceedings, arising out of the Agreement, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs. This paragraph shall not apply to any proceeding contemplated by paragraph XII.

XV. **Effective Date.** The Agreement shall take effect on the date on which the Service Area becomes annexed into the corporate limits of the City.

XVI. **Notices; Proper Form.** All notices or other communications hereunder, other than those specifically required to be given to other persons shall be in writing and shall be deemed duly given if delivered in person or sent by certified mail, return receipt requested, postage prepaid and addressed as follows:

City Manager  
City of Ormond Beach  
Post Office Box 277  
Ormond Beach, FL 32175-0277

President  
Tymber Creek Utilities, Inc.  
1951 State Road 40  
Ormond Beach, FL 32174

XVII. **Entire Agreement.** No prior or present agreements or representations shall be binding upon any of the parties hereto unless incorporated in the Agreement. No modification or change in the Agreement shall be valid or binding upon the parties unless in writing, approved by the City Commission and by the Board of Directors of TCU and executed by the appropriate officers and officials of each party.

XVIII. **Binding Agreement.** The provisions of the Agreement shall inure to and be binding upon the respective legal representatives, successors and assigns of the parties to the Agreement.

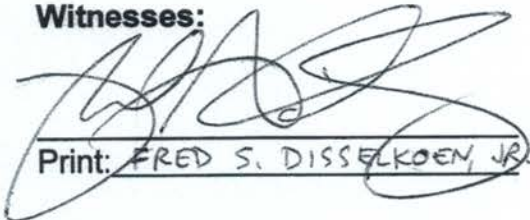
XIX. **Time of the Essence.** Time is hereby declared of the essence to the lawful performance of the duties and obligations contained in this Agreement.

XX. **Applicable Law.** This Agreement and the provisions contained herein shall be construed, controlled, and interpreted according to the laws of the State of Florida.

XXI. **Term: Enforcement.** This Agreement shall, once it takes effect, be perpetual. Any party may avail itself of any legal or equitable remedies, including specific performance, in order to enforce the terms of this Agreement.

**IN WITNESS WHEREOF,** the parties hereto have set their hands and seals the day and year first above written.

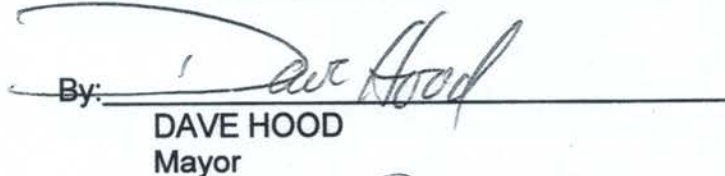
**Witnesses:**

  
Print: FRED S. DISSELKOEN, JR.

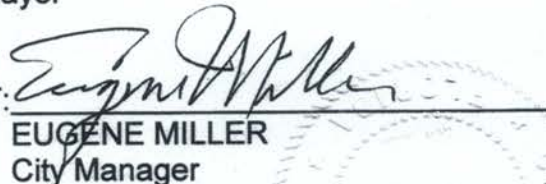
  
Print: Randal A. Hayes

**As to the City**

**CITY OF ORMOND BEACH**

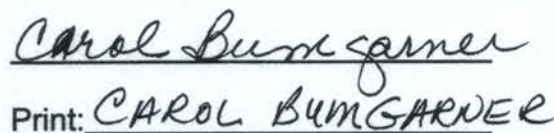
By:   
DAVE HOOD  
Mayor

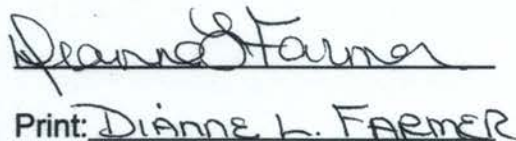
ATTEST:

  
EUGENE MILLER  
City Manager

[CITY SEAL]

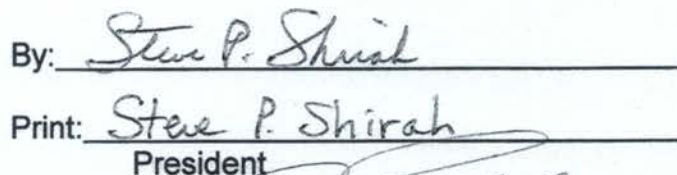
**Witnesses:**

  
Print: CAROL BUMGARNER

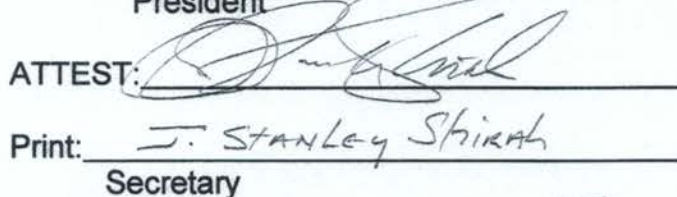
  
Print: DIANNE L. FARMER

**As to TCU**

**TYMBER CREEK UTILITIES, INC.**

By:   
Print: Steve P. Shirah  
President

ATTEST:

  
Print: J. STANLEY SHIRAH  
Secretary

[CORPORATE SEAL]

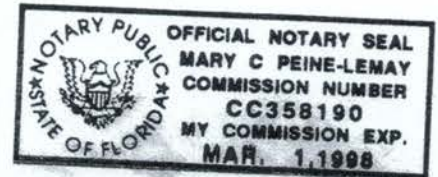


STATE OF FLORIDA  
COUNTY OF VOLUSIA

The foregoing instrument was acknowledged before me this 30th day of July, 1996, by **DAVE HOOD** and **EUGENE MILLER**, as the Mayor and the City Manager, respectively, of the CITY OF ORMOND BEACH, FLORIDA, on behalf of the CITY OF ORMOND BEACH. He is personally known to me or has produced as identification and did (did not) take an oath.

Mary C Peine Lemay  
Notary Public

Notary Name Printed  
My Commission Expires:



STATE OF FLORIDA  
COUNTY OF Volusia

BEFORE ME, a Notary Public, personally appeared Steve P. Shirah, and J. Stanley Shirah who are President and Secretary, respectively, of TYMBER CREEK UTILITIES, INC., a Florida corporation, and who is personally known to me or who did produce as identification and who did/did not take an oath on this 30th day of July, 1996.

Carol C Bumgarner  
Notary Public

Notary Name Printed **CAROL C. BUMGARNER**  
My Commission Expires **NOTARY PUBLIC, STATE OF FLORIDA**  
**COMM. EXP. MARCH 22, 1997**  
**#CC264501**



# EXHIBIT "A"

ALL OF TYMBER CREEK SUBDIVISION AND LOST CREEK SUBDIVISION, DEVELOPED OR UNDEVELOPED,  
AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Parcel #1- The South 1/4 of the East 1/2 of the Northwest 1/4 except the west 25 feet in Hull Road, and the Northeast 1/4 of the Southwest 1/4 North of creek (Little Tomoka River) except the west 25 feet in Hull Road, Section 25, Township 14 South, Range 31 East, Volusia County, Florida containing 41 Acres, more or less.

Parcel #2- The North 1/2 of the South 1/2 of the East 1/2 of the Northwest 1/4 except the west 25 feet in Hull Road, Section 25, Township 14 South, Range 31 East, Volusia County, Florida, containing 19.462 Acres..

Parcel #3- The Northeast 1/4 of the Northwest 1/4 except the west 25 feet in Hull Road, Section 25, Township 14 South, Range 31 East, Volusia County, Florida, being 39.021 Acres.

Parcel #4- A portion of the Northeast 1/4 of Section 25, Township 14 South, Range 31 East, described as follows:  
As a point of reference, commence at the Northeast corner of Section 25 Township 14 South, Range 31 East; Thence South 88 degrees 03 minutes 10 seconds West a distance of 1306.37 feet to a point in the Westerly right-of-way line of Interstate 95 (a 300 foot right-of-way as used) which is the point of beginning of the following described parcel; Thence South 16 degrees 57 minutes 20 seconds East along the Westerly right-of-way line of said interstate 95 a distance of 1333.37 feet to a point; Thence South 86 degrees 26 minutes 21 seconds West a distance of 2034.63 feet to a point; Thence North 0 degrees 44 minutes 20 seconds West a distance of 1296.89 feet to a point; Then North 86 degrees 22 minutes 40 seconds East a distance of 1661.89 feet to the point of beginning. Said parcel contains 55.0 Acres.

Parcel #5- A portion of the Southeast 1/4 of Section 24, Township 14 South, Range 31 East, described as follows:  
As a point of reference, commence at the Southeast corner of said Section 24, Township 14, South, Range 31 East; Thence South 88 degrees 3 minutes 10 seconds West a distance of 1306.37 feet to a point in the Westerly right-of-way line of Interstate 95 (a 300 foot right-of-way as used) which is the point of beginning of the following described parcel; Thence South 86 degrees 22 minutes 40 seconds West a distance of 1661.89 feet to a point; Thence North 0 degrees 58 minutes 06 seconds West a distance of 1383.16 feet to a point; Thence North 88 degrees 29 minutes 30 seconds East a distance of 1282.47 feet to a point in the Westerly right-of-way line of said Interstate 95; Thence South 16 degrees 57 minutes 20 seconds East along said Westerly right-of-way line of Interstate 95 a distance of 1371.34 feet to the point of beginning. Said parcel contains 45.8 Acres.

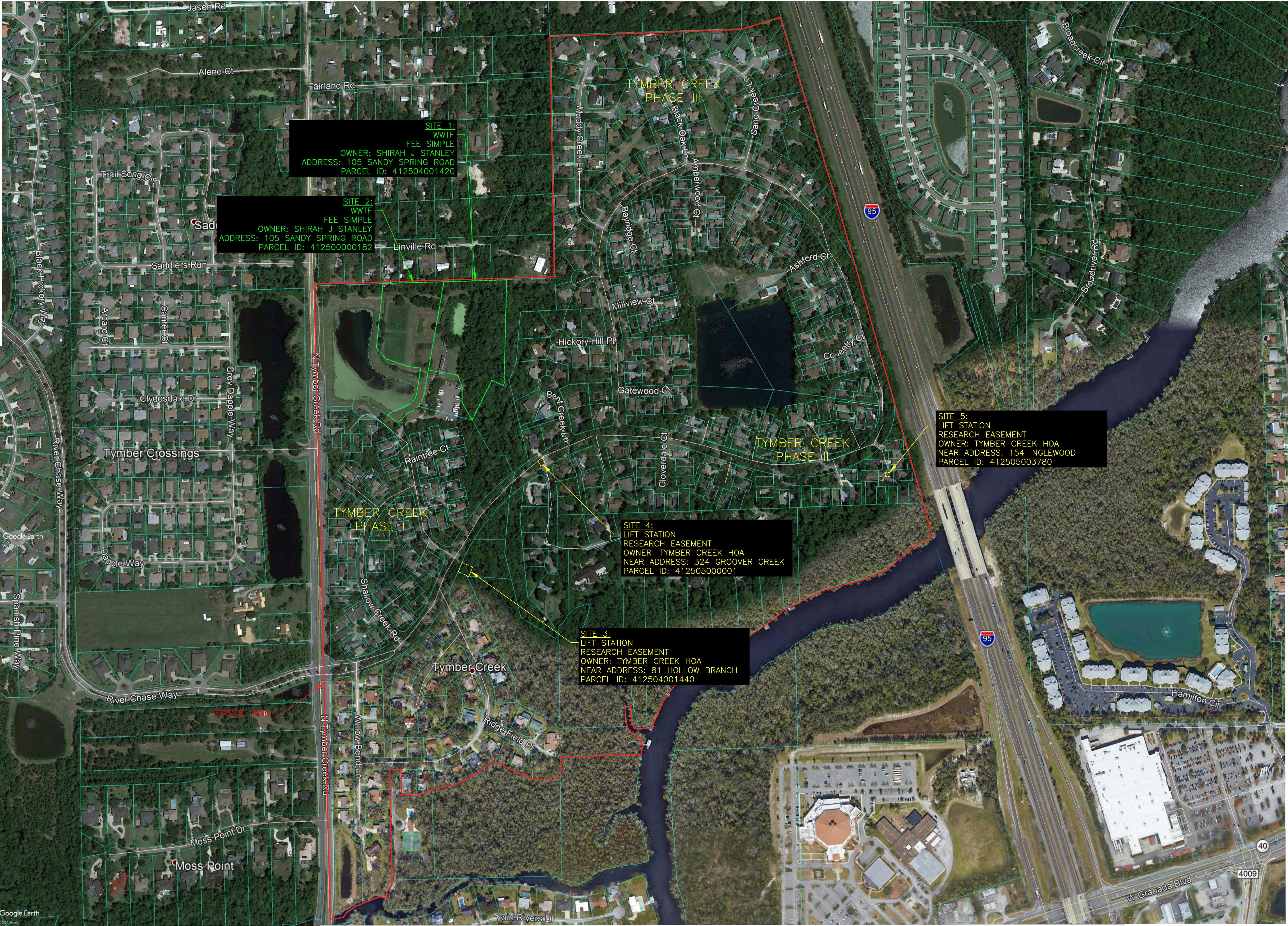
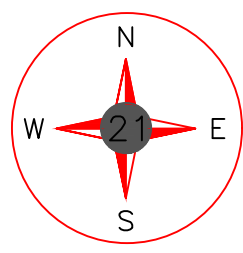
Parcel #6- That part of the following described parcel that lies Westerly of Interstate 95 (a 300 foot right-of-way). The easterly 264 feet of the Northwest 1/4 of the Southeast 1/4 and the Westerly 792 feet of the northeast 1/4 of the Southeast 1/4 of Section 24, Township 14 South, Range 31 East, Volusia County, Florida, excepting therefrom these portions used for Hull Road and for Interstate "I-95" Highway. Said parcel contains 2.10 Acres.

Parcel #7-(Lost Creek) A Part of the Southwest 1/4 of the Northeast 1/4 of Section 25, Township 14 South, Range 31 East, lying North of the Tomoka River and East of Groover Branch Creek, in Volusia County, Florida.

**ATTACHMENT B**  
Rough Service Area Map



ROUGH SERVICE AREA MAP (v1)  
TYMBER CREEK UTILITIES  
(WATER & WASTEWATER)  
VOLUSIA, FL



Utility Note Disclaimer:  
The utilities shown hereon are depicted based on the description provided by the system manager. 21 Design Group, Inc performed no field verification of the layout and are unable to determine the exact location at this time. The location represents approximate location only and should not be construed as being 100% accurate. It is shown to provide general layout of the system only and should not be used to interpret encroachments.

DATE:	8/18/21
PROJECT NO:	0633-20
DRAWN BY:	KAR
SCALE:	
SHEET NAME:	SERVICE AREA MAP

21  
DESIGN  
GROUP INC.

1351 Jefferson, Suite 301  
Washington, MO 63090

mail@21designgroup.net  
P: 636-432-5029



# ATTACHMENT C

2020 Annual Report



**CLASS "A" OR "B"**

**WATER AND/OR WASTEWATER UTILITIES**  
(Gross Revenue of More Than \$200,000 Each)

**ANNUAL REPORT**

**OF**

WS246-20-AR  
J.S. Shirah  
Tymber Creek Utilities, Incorporated  
1951 West Granada Blvd.  
Ormond Beach, FL 32174-6740

OFFICIAL COPY  
Public Service Commission  
Do Not Remove From This Office

---

Exact Legal Name of Respondent

303W / 252S  
Certificate Number(s)

Submitted To The

STATE OF FLORIDA



**PUBLIC SERVICE COMMISSION**

**FOR THE**

**YEAR ENDED DECEMBER 31, 2020**

RECEIVED  
PUBLIC SERVICE COMMISSION  
2021 APR 29 AM 6:17  
OFFICE OF THE CLERK

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## GENERAL INSTRUCTIONS

1. Prepare this report in conformity with the 1996 National Association of Regulatory Utility Commissioners Uniform System of Accounts for Water and/or Wastewater Utilities (USOA).
2. Interpret all accounting words and phrases in accordance with the USOA.
3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the word "None" where it truly and completely states the fact.
4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable." Do not omit any pages.
5. Where dates are called for, the month and day should be stated as well as the year.
6. All schedules requiring dollar entries should be rounded to the nearest dollar unless otherwise specifically indicated.
7. Complete this report by means which result in a permanent record, such as by computer or typewriter.
8. If there is not enough room on any schedule, an additional page or pages may be added, provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.
9. If it is necessary or desirable to insert additional statements for the purpose of further explanation of schedules, such statement should be made at the bottom of the page or an additional page inserted. Any additional pages should state the name of the utility, the year of the report, and reference the appropriate schedule.
10. For water and wastewater utilities with more than one rate group and/or system, water and wastewater pages should be completed for each rate group and/or system group. These pages should be grouped together and tabbed by rate group and/or system.
11. All other water and wastewater operations not regulated by the Commission and other regulated industries should be reported as "Other than Reporting Systems."
12. Financial information for multiple systems charging rates which are covered under the same tariff should be reported as one system. However, the engineering data must be reported by individual system.
13. For water and wastewater utilities with more than one system, one (1) copy of workpapers showing the consolidation of systems for the operating sections, should be filed with the annual report.
14. The report should be filled out in quadruplicate and the original and two copies returned by March 31, of the year following the date of the report. The report should be returned to:

**Florida Public Service Commission  
Division of Economic Regulation  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850**

The fourth copy should be retained by the utility.

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Basis for Wastewater Depreciation Charges	S-5	Calculation of ERCs	S-11
Analysis of Entries in Wastewater Depreciation Reserve	S-6	Wastewater Treatment Plant Information	S-12
		Other Wastewater System Information	S-13

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# **EXECUTIVE SUMMARY**

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UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

### CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES  
☒ X

NO  
☐

1. The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.

YES  
☒ X

NO  
☐

2. The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.

YES  
☒ X

NO  
☐

3. There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices that could have a material effect on the the financial statement of the utility.

YES  
☒ X

NO  
☐

4. The annual report fairly represents the financial condition and results of operations of the respondent for the period presented and other information and statements presented in the the report as to the business affairs of the respondent are true, correct and complete for the period for which it represents.

#### Items Certified

1.	2.	3.	4.
X	X	X	X

1.	2.	3.	4.



(Signature of Chief Executive Officer of the utility) \*

(Signature of Chief Financial Officer of the utility) \*

- \* Each of the four items must be certified YES or NO. Each item need not be certified by both officers. The items being certified by the officer should be indicated in the appropriate area to the left of the signature.

**NOTICE:** Section 837.06, Florida Statutes, provides that any person who knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his duty shall be guilty of a misdemeanor of the second degree.

# ANNUAL REPORT OF

**YEAR OF REPORT**

December 31, 2020

Tymber Creek Utilities, Incorporated

(Exact Name of Utility)

County: Volusia

List below the exact mailing address of the utility for which normal correspondence should be sent:

1951 W. Granada Blvd.

Ormond Beach, FL 32174

Telephone: 386-672-9815 FAX 386-677-5707

E Mail Address: Tymbercreekutil@aol.com

WEB Site: N/A

Sunshine State One-Call of Florida, Inc. Member Number IC2115

Name and address of person to whom correspondence concerning this report should be addressed:

T. Brent Jenkins, Attorney for Trustee

1951 W. Granada Blvd.

Ormond Beach, FL 32174

Telephone: 386-677-5702

List below the address of where the utility's books and records are located:

1951 W. Granada Blvd.

Ormond Beach, FL 32174

Telephone: 386-677-5702

List below any groups auditing or reviewing the records and operations:

Hartman Consultants, LLC

637 N. Park Ave.

Winter Park, FL 32789

Willdan Financial Services

200 S. Orange Avenue, Suite 1550

Orlando, FL 32801

Date of original organization of the utility: 08/01/77

Check the appropriate business entity of the utility as filed with the Internal Revenue Service

Individual

☐

Partnership

☐

Sub S Corporation

☒

1120 Corporation

☐

List below every corporation or person owning or holding directly or indirectly 5% or more of the voting securities of the utility:

	Name	Percent Ownership
1.	<u>J. Stanley Shirah Estate</u>	<u>100%</u>
2.	<u></u>	<u></u>
3.	<u></u>	<u></u>
4.	<u></u>	<u></u>
5.	<u></u>	<u></u>
6.	<u></u>	<u></u>
7.	<u></u>	<u></u>
8.	<u></u>	<u></u>
9.	<u></u>	<u></u>
10.	<u></u>	<u></u>

## YEAR OF REPORT

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- E-3

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

### COMPANY PROFILE

Provide a brief narrative company profile which covers the following areas:

- A. Brief company history.
- B. Public services rendered.
- C. Major goals and objectives.
- D. Major operating divisions and functions.
- E. Current and projected growth patterns.
- F. Major transactions having a material effect on operations.

- A., B. Tymber Creek Utilities, Incorporated (TCU) was started in August of 1977 to support Tymber Creek Subdivision with Water and Wastewater Services.
- C. The major goals and objectives of TCU are to provide good quality Water and Wastewater Services to the customers in the service area at the lowest cost to those customers.
- D. The major and only divisions and functions of TCU are Water and Wastewater.
- E. No growth in 2020.
- F. Major transaction that have a material effect on operations are as follows: The Water Utility is facing an increased cost of Purchased finished water from the City of Ormond Beach. The Wastewater Utility is having to adjust to increasingly more stringent standards from the Florida Department of Environmental Protection. These standards are reflected in increasing cost of Sewer Plant Operations and Contract Sludge Hauling costs and frequency. Due to FDEP, HOA, and FPSC settlement action items, additional costs for collection system inflow/infiltration and controls exist with cleaning and lining improvements.



UTILITY NAME: Tymber Creek Utilities, Incorporated

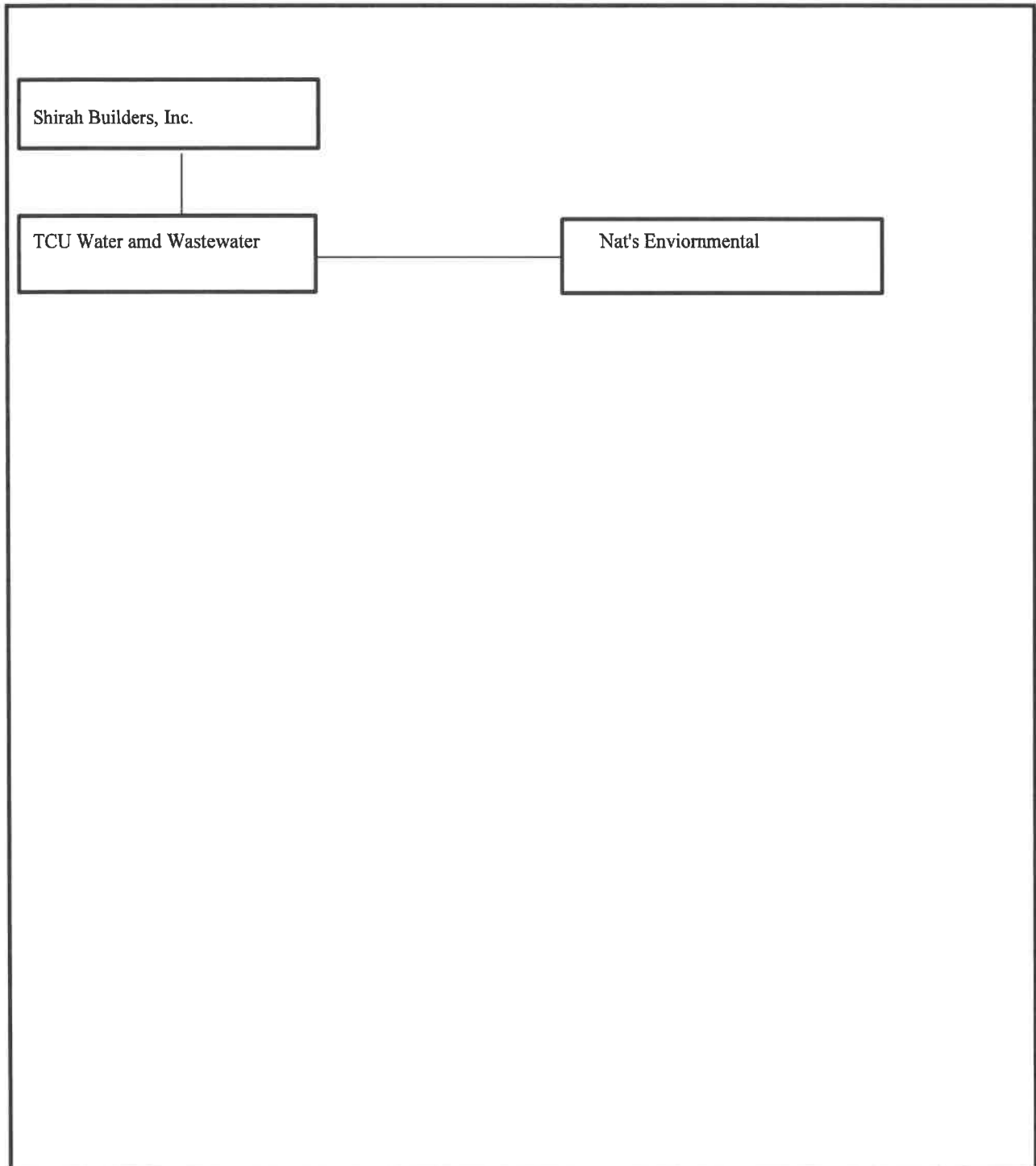
**YEAR OF REPORT**

December 31, 2020

**PARENT / AFFILIATE ORGANIZATION CHART**

Current as of 12/31/20

Complete below an organizational chart that shows all parents, subsidiaries and affiliates of the utility.  
The chart must also show the relationship between the utility and affiliates listed on E-7, E-10(a) and E-10(b).



UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

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### COMPENSATION OF OFFICERS

For each officer, list the time spent on respondent as an officer compared to time spent on total business activities and the compensation received as an officer from the respondent.			
NAME (a)	TITLE (b)	% OF TIME SPENT AS OFFICER OF THE UTILITY (c)	OFFICERS' COMPENSATION (d)
J. Stanley Shirah	President		\$ 15,800

### COMPENSATION OF DIRECTORS

For each director, list the number of directors' meetings attended by each director and the compensation received as a director from the respondent.			
NAME (a)	TITLE (b)	NUMBER OF DIRECTORS' MEETINGS ATTENDED (c)	DIRECTORS' COMPENSATION (d)
J. Stanley Shirah	President	All	\$ 0

**YEAR OF REPORT**  
December 31, 2020

[illegible]

E-7

**YEAR OF REPORT**  
December 31, 2020

[illegible]

**UTILITY NAME:** Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

**BUSINESSES WHICH ARE A BY-PRODUCT, CO PRODUCT OR JOINT-PRODUCT  
RESULT OF PROVIDING WATER OR WASTEWATER SERVICE**

Complete the following for any business which is conducted as a byproduct, co product, or joint product as a result of providing water and / or wastewater service. This would include any business which requires the use of utility land and facilities. Examples of these types of businesses would be orange groves, nurseries, tree farms, fertilizer manufacturing, etc. This would not include any business for which the assets are properly included in Account 121 - Nonutility Property along with the associated revenue and expenses segregated out as nonutility also.

[illegible]

**YEAR OF REPORT**  
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List each contract, agreement, or other business transaction exceeding a cumulative amount of \$500 in any on year, entered into between the Respondent and a business or financial organization, firm, or partnership named on pages E-2 and E-6, identifying the parties, amounts, dates and product, and asset, or service involved.

1. Enter in this part all transactions involving services and products received or provided.
2. Below are some types of transactions to include:
  - management, legal and accounting services
  - computer services
  - engineering & construction services
  - repairing and servicing of equipment
  - material and supplies furnished
  - leasing of structures, land, and equipment
  - rental transactions
  - sale, purchase or transfer of various products

E-10(a)



**UTILITY NAME:**

**Tymer Creek Utilities, Incorporated**

## YEAR OF REPORT

December 31, 2020

**BUSINESS TRANSACTIONS WITH RELATED PARTIES (Cont'd)**

## Part II. Specific Instructions: Sale, Purchase and Transfer of Assets

1. Enter in this part all transactions relating to the purchase, sale, or transfer of assets.
2. Below are examples of some types of transactions to include:
  - purchase, sale or transfer of equipment
  - purchase, sale or transfer of land and structures
  - purchase, sale or transfer of securities
  - noncash transfers of assets
  - noncash dividends other than stock dividends
  - write-off of bad debts or loans
3. The columnar instructions follow:
  - (a) Enter name of related party or company.
  - (b) Describe briefly the type of assets purchased, sold or transferred.
  - (c) Enter the total received or paid. Indicate purchase with "P" and sale with "S".
  - (d) Enter the net book value for each item reported.
  - (e) Enter the net profit or loss for each item reported. (column (c) - column (d))
  - (f) Enter the fair market value for each item reported. In space below or in a supplemental schedule, describe the basis used to calculate fair market value.

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# **FINANCIAL SECTION**

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UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

**COMPARATIVE BALANCE SHEET  
ASSETS AND OTHER DEBITS**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
<b>UTILITY PLANT</b>				
101-106	Utility Plant	F-7	\$ 1,346,217	\$ 1,371,443
108-110	Less: Accumulated Depreciation and Amortization	F-8	987,825	1,030,202
Net Plant			\$ 358,392	\$ 341,241
114-115	Utility Plant Acquisition adjustment (Net)	F-7	0	
116 *	Other Utility Plant Adjustments			
Total Net Utility Plant			\$ 358,392	\$ 341,241
<b>OTHER PROPERTY AND INVESTMENTS</b>				
121	Nonutility Property	F-9	\$ 0	\$ 0
122	Less: Accumulated Depreciation and Amortization			
Net Nonutility Property			\$ 0	\$ 0
123	Investment in Associated Companies	F-10	0	
124	Utility Investments	F-10	0	
125	Other Investments	F-10	0	
126-127	Special Funds	F-10	0	
Total Other Property & Investments			\$ 0	\$ 0
<b>CURRENT AND ACCRUED ASSETS</b>				
131	Cash		\$ 7,941	\$ 23,823
132	Special Deposits	F-9		
133	Other Special Deposits	F-9	150	650
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts and Notes Receivable, Less Accumulated Provision for Uncollectible Accounts	F-11	21,735	32,643
145	Accounts Receivable from Associated Companies	F-12		
146	Notes Receivable from Associated Companies	F-12		
151-153	Material and Supplies			
161	Stores Expense			
162	Prepayments			
171	Accrued Interest and Dividends Receivable			
172 *	Rents Receivable			
173 *	Accrued Utility Revenues			
174	Miscellaneous Current and Accrued Assets	F-12		
Total Current and Accrued Assets			\$ 29,826	\$ 57,116

\* Not Applicable for Class B Utilities

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

**COMPARATIVE BALANCE SHEET  
ASSETS AND OTHER DEBITS**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
	<b>DEFERRED DEBITS</b>			
181	Unamortized Debt Discount & Expense	F-13	\$ 0	\$
182	Extraordinary Property Losses	F-13	0	
183	Preliminary Survey & Investigation Charges			
184	Clearing Accounts			
185 *	Temporary Facilities			
186	Miscellaneous Deferred Debits	F-14	0	0
187 *	Research & Development Expenditures			
190	Accumulated Deferred Income Taxes			
Total Deferred Debits			\$ 0	\$ 0
TOTAL ASSETS AND OTHER DEBITS			\$ 388,218	\$ 398,357

\* Not Applicable for Class B Utilities

**NOTES TO THE BALANCE SHEET**

The space below is provided for important notes regarding the balance sheet

- 1 Adjustment to previous year accumulated depreciation due to asset retirement for \$5,152. Did not flow through from wastewater balance sheet.
- 2 Adjustment to previous year Accounts Receivable Balance and Retained Earnings due to posting of prior period adjustment relating to employee theft issue.



UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

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**COMPARATIVE BALANCE SHEET  
EQUITY CAPITAL AND LIABILITIES**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
<b>EQUITY CAPITAL</b>				
201	Common Stock Issued	F-15	\$ 100	\$ 100
204	Preferred Stock Issued	F-15	0	
202,205 *	Capital Stock Subscribed			
203,206 *	Capital Stock Liability for Conversion			
207 *	Premium on Capital Stock			
209 *	Reduction in Par or Stated Value of Capital Stock			
210 *	Gain on Resale or Cancellation of Reacquired Capital Stock			
211	Other Paid - In Capital			
212	Discount On Capital Stock			
213	Capital Stock Expense			
214-215	Retained Earnings	F-16	(160,755)	(158,212)
216	Reacquired Capital Stock			
218	Proprietary Capital (Proprietorship and Partnership Only)			
Total Equity Capital			\$ (160,655)	\$ (158,112)
<b>LONG TERM DEBT</b>				
221	Bonds	F-15		
222 *	Reacquired Bonds			
223	Advances from Associated Companies	F-17		
224	Other Long Term Debt	F-17		
Total Long Term Debt			\$ 0	\$ 0
<b>CURRENT AND ACCRUED LIABILITIES</b>				
231	Accounts Payable		67,992	33,464
232	Notes Payable	F-18	414,136	435,113
233	Accounts Payable to Associated Companies	F-18	21,142	42,969
234	Notes Payable to Associated Companies	F-18	0	0
235	Customer Deposits		15,252	14,572
236	Accrued Taxes	W/S-3	30,351	30,351
237	Accrued Interest	F-19	0	
238	Accrued Dividends			
239	Matured Long Term Debt			
240	Matured Interest			
241	Miscellaneous Current & Accrued Liabilities	F-20	0	
Total Current & Accrued Liabilities			\$ 548,873	\$ 556,469

\* Not Applicable for Class B Utilities

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

**COMPARATIVE BALANCE SHEET  
EQUITY CAPITAL AND LIABILITIES**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
<b>DEFERRED CREDITS</b>				
251	Unamortized Premium On Debt	F-13	\$ _____	\$ _____
252	Advances For Construction	F-20	_____	_____
253	Other Deferred Credits	F-21	_____	_____
255	Accumulated Deferred Investment Tax Credits			
Total Deferred Credits			\$ <u>0</u>	\$ <u>0</u>
<b>OPERATING RESERVES</b>				
261	Property Insurance Reserve		\$ _____	\$ _____
262	Injuries & Damages Reserve		_____	_____
263	Pensions and Benefits Reserve		_____	_____
265	Miscellaneous Operating Reserves			
Total Operating Reserves			\$ <u>0</u>	\$ <u>0</u>
<b>CONTRIBUTIONS IN AID OF CONSTRUCTION</b>				
271	Contributions in Aid of Construction	F-22	\$ 536,199	\$ 536,199
272	Accumulated Amortization of Contributions in Aid of Construction	F-22	(536,199)	(536,199)
Total Net CIAC			\$ <u>0</u>	\$ <u>0</u>
<b>ACCUMULATED DEFERRED INCOME TAXES</b>				
281	Accumulated Deferred Income Taxes - Accelerated Depreciation		\$ _____	\$ _____
282	Accumulated Deferred Income Taxes - Liberalized Depreciation		_____	_____
283	Accumulated Deferred Income Taxes - Other			
Total Accumulated Deferred Income Tax			\$ <u>0</u>	\$ <u>0</u>
<b>TOTAL EQUITY CAPITAL AND LIABILITIES</b>			\$ <u>388,218</u>	\$ <u>398,357</u>

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

**COMPARATIVE OPERATING STATEMENT**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR * (e)
<b>UTILITY OPERATING INCOME</b>				
400	Operating Revenues	F-3(b)	\$ 481,018	\$ 497,305
469, 530	Less: Guaranteed Revenue and AFPI	F-3(b)		0
Net Operating Revenues			\$ 481,018	\$ 497,305
401	Operating Expenses	F-3(b)	\$ 403,910	\$ 387,557
403	Depreciation Expense:	F-3(b)	\$ 41,252	\$ 42,377
	Less: Amortization of CIAC	F-22	0	0
Net Depreciation Expense			\$ 41,252	\$ 42,377
406	Amortization of Utility Plant Acquisition Adjustment	F-3(b)		0
407	Amortization Expense (Other than CIAC)	F-3(b)		0
408	Taxes Other Than Income	W/S-3	31,870	32,528
409	Current Income Taxes	W/S-3		0
410.1	Deferred Federal Income Taxes	W/S-3		0
410.11	Deferred State Income Taxes	W/S-3		0
411.1	Provision for Deferred Income Taxes - Credit	W/S-3		0
412.1	Investment Tax Credits Deferred to Future Periods	W/S-3		0
412.11	Investment Tax Credits Restored to Operating Income	W/S-3		0
Utility Operating Expenses			\$ 477,032	\$ 462,462
Net Utility Operating Income			\$ 3,986	\$ 34,843
469, 530	Add Back: Guaranteed Revenue and AFPI	F-3(b)		0
413	Income From Utility Plant Leased to Others			0
414	Gains (losses) From Disposition of Utility Property			0
420	Allowance for Funds Used During Construction			0
Total Utility Operating Income [Enter here and on Page F-3(c)]			\$ 3,986	\$ 34,843

\* For each account, Column e should agree with Columns f, g and h on F-3(b)

UTILITY NAME: Timber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**COMPARATIVE OPERATING STATEMENT (Cont'd)**

WATER SCHEDULE W-3 * (f)	WASTEWATER SCHEDULE S-3 * (g)	OTHER THAN REPORTING SYSTEMS (h)
\$ 144,633 0	\$ 352,672 0	\$
\$ 144,633	\$ 352,672	\$ 0
\$ 116,110	\$ 271,447	\$
9,317 0	33,060 0	
\$ 9,317	\$ 33,060	\$ 0
0 0 10,371 0 0 0 0 0 0	0 0 22,157 0 0 0 0 0 0	
\$ 135,798	\$ 326,664	\$ 0
\$ 8,835	\$ 26,008	\$ 0
0 0 0 0	0 0 0 0	
\$ 8,835	\$ 26,008	\$ 0

\* Total of Schedules W-3 / S-3 for all rate groups.

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
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**COMPARATIVE OPERATING STATEMENT (Cont'd)**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	PREVIOUS YEAR (d)	CURRENT YEAR (e)
Total Utility Operating Income [from page F-3(a)]			\$ 3,986	\$ 34,843
415	OTHER INCOME AND DEDUCTIONS Revenues-Merchandising, Jobbing, and Contract Deductions		\$	\$
416	Costs & Expenses of Merchandising Jobbing, and Contract Work			
419	Interest and Dividend Income			
421	Nonutility Income			
426	Miscellaneous Nonutility Expenses			
Total Other Income and Deductions			\$ 0	\$ 0
408.2	TAXES APPLICABLE TO OTHER INCOME Taxes Other Than Income		\$	\$
409.2	Income Taxes			
410.2	Provision for Deferred Income Taxes			
411.2	Provision for Deferred Income Taxes - Credit			
412.2	Investment Tax Credits - Net			
412.3	Investment Tax Credits Restored to Operating Income			
Total Taxes Applicable To Other Income			\$ 0	\$ 0
427	INTEREST EXPENSE Interest Expense	F-19	\$ 34,341	\$ 32,300
428	Amortization of Debt Discount & Expense	F-13		
429	Amortization of Premium on Debt	F-13		
Total Interest Expense			\$ 34,341	\$ 32,300
433	EXTRAORDINARY ITEMS Extraordinary Income		\$	\$
434	Extraordinary Deductions			
409.3	Income Taxes, Extraordinary Items			
Total Extraordinary Items			\$ 0	\$ 0
NET INCOME			\$ (30,355)	\$ 2,543

Explain Extraordinary Income:

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UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

**SCHEDULE OF YEAR END RATE BASE**

ACCT. NO. (a)	ACCOUNT NAME (b)	REF. PAGE (c)	WATER UTILITY (d)	WASTEWATER UTILITY (e)
101	Utility Plant In Service	F-7	\$ 336,030	\$ 1,035,413
	Less:			
	Nonused and Useful Plant (1)			
108	Accumulated Depreciation	F-8	251,569	778,633
110	Accumulated Amortization	F-8	0	0
271	Contributions in Aid of Construction	F-22	155,893	380,306
252	Advances for Construction	F-20		
Subtotal			\$ (71,432)	\$ (123,526)
272	Add:			
	Accumulated Amortization of			
	Contributions in Aid of Construction	F-22	155,893	380,306
Subtotal			\$ 84,461	\$ 256,780
114	Plus or Minus:			
	Acquisition Adjustments (2)	F-7	0	0
115	Accumulated Amortization of			
	Acquisition Adjustments (2)	F-7	0	0
	Working Capital Allowance (3)		14,514	33,931
	Other (Specify):			
RATE BASE			\$ 98,975	\$ 290,711
NET UTILITY OPERATING INCOME			\$ 8,835	\$ 26,008
ACHIEVED RATE OF RETURN (Operating Income / Rate Base)			8.93%	8.95%

**NOTES :**

- (1) Estimate based on the methodology used in the last rate proceeding.
- (2) Include only those Acquisition Adjustments that have been approved by the Commission.
- (3) Calculation consistent with last rate proceeding.  
In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.



UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

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**SCHEDULE OF CURRENT COST OF CAPITAL  
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING (1)**

CLASS OF CAPITAL (a)	DOLLAR AMOUNT (2) (b)	PERCENTAGE OF CAPITAL (c)	ACTUAL COST RATES (3) (d)	WEIGHTED COST (c x d) (e)
Common Equity	\$ 0	0.00%	9.27%	0.00%
Preferred Stock	0	0.00%		0.00%
Long Term Debt	435,113	96.76%	8.06%	7.80%
Customer Deposits	14,572	3.24%	6.00%	0.19%
Tax Credits - Zero Cost	0	0.00%		0.00%
Tax Credits - Weighted Cost	0	0.00%		0.00%
Deferred Income Taxes	0	0.00%		0.00%
Other (Explain)	0	0.00%		0.00%
	0	0.00%		0.00%
<b>Total</b>	<b>\$ 449,685</b>	<b>100.00%</b>		<b>7.99%</b>

(1) If the utility's capital structure is not used, explain which capital structure is used.

\_\_\_\_\_

(2) Should equal amounts on Schedule F-6, Column (g).

(3) Mid-point of the last authorized Return On Equity or current leverage formula if none has been established.

Must be calculated using the same methodology used in the last rate proceeding using current annual report year end amounts and cost rates.

**APPROVED RETURN ON EQUITY**

Current Commission Return on Equity: 9.27%

Commission order approving Return on Equity: PSC 11-0345-PAA-WS

**APPROVED AFUDC RATE**

COMPLETION ONLY REQUIRED IF AFUDC WAS CHARGED DURING YEAR

Current Commission Approved AFUDC rate: N/A

Commission order approving AFUDC rate: N/A

If any utility capitalized any charge in lieu of AFUDC (such as interest only), state the basis of the charge, an explanation as to why AFUDC was not charged and the percentage capitalized.

**UTILITY NAME:**

**Tymer Creek Utilities, Incorporated**

## YEAR OF REPORT

December 31, 2020

**SCHEDULE OF CAPITAL STRUCTURE ADJUSTMENTS  
CONSISTENT WITH THE METHODOLOGY USED IN THE LAST RATE PROCEEDING**

CLASS OF CAPITAL (a)	PER BOOK BALANCE (b)	NON-UTILITY ADJUSTMENTS (c)	NON-JURISDICTIONAL ADJUSTMENTS (d)	OTHER (1) ADJUSTMENTS SPECIFIC (e)	OTHER (1) ADJUSTMENTS PRO RATA (f)	CAPITAL STRUCTURE (g)
Common Equity	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____ 0
Preferred Stock	_____	_____	_____	_____	_____	_____ 0
Long Term Debt	_____	_____	_____	_____	_____	_____ 0
Customer Deposits	_____	_____	_____	_____	_____	_____ 0
Tax Credits - Zero Cost	_____	_____	_____	_____	_____	_____ 0
Tax Credits - Weighted Cost	_____	_____	_____	_____	_____	_____ 0
Deferred Inc. Taxes	_____	_____	_____	_____	_____	_____ 0
Other (Explain)	_____	_____	_____	_____	_____	_____ 0
						0
Total	\$ _____ 0	\$ _____ 0	\$ _____ 0	\$ _____ 0	\$ _____ 0	\$ _____ 0

(1) Explain below all adjustments made in Columns (e) and (f):

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

**UTILITY PLANT  
ACCOUNTS 101 - 106**

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
101	Plant Accounts: Utility Plant In Service	\$ 336,030	\$ 1,035,413	\$	\$ 1,371,443
102	Utility Plant Leased to Other				0
103	Property Held for Future Use				0
104	Utility Plant Purchased or Sold				0
105	Construction Work in Progress				0
106	Completed Construction Not Classified				0
	Total Utility Plant	\$ 336,030	\$ 1,035,413	\$ 0	\$ 1,371,443

**UTILITY PLANT ACQUISITION ADJUSTMENTS  
ACCOUNTS 114 AND 115**

Report each acquisition adjustment and related accumulated amortization separately.  
For any acquisition adjustments approved by the Commission, include the Order Number.

ACCT. NO. (a)	DESCRIPTION (b)	WATER (c)	WASTEWATER (d)	OTHER THAN REPORTING SYSTEMS (e)	TOTAL (f)
114	Acquisition Adjustment	\$	\$	\$	\$ 0
					0
					0
					0
					0
					0
	Total Plant Acquisition Adjustments	\$ 0	\$ 0	\$ 0	\$ 0
115	Accumulated Amortization	\$	\$	\$	\$ 0
					0
					0
					0
					0
	Total Accumulated Amortization	\$ 0	\$ 0	\$ 0	\$ 0
	Net Acquisition Adjustments	\$ 0	\$ 0	\$ 0	\$ 0

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

**ACCUMULATED DEPRECIATION ( ACCT. 108 ) AND AMORTIZATION (ACCT. 110)**

DESCRIPTION (a)	WATER (b)	WASTEWATER (c)	OTHER THAN REPORTING SYSTEMS (d)	TOTAL (e)
<b>ACCUMULATED DEPRECIATION Account 108</b>				
Balance first of year	\$ 242,252	\$ 745,573	\$	\$ 987,825
Credit during year:				
Accruals charged to:				
Account 108.1 (1)	\$ 9,317	\$ 33,060	\$	\$ 42,377
Account 108.2 (2)				0
Account 108.3 (2)				0
Other Accounts (specify):				0
				0
				0
Salvage				0
Other Credits (Specify):				0
				0
Total Credits	\$ 9,317	\$ 33,060	\$ 0	\$ 42,377
Debits during year:				
Book cost of plant retired	0	0		0
Cost of Removal				0
Other Debits (specify):				0
				0
Total Debits	\$ 0	\$ 0	\$ 0	\$ 0
Balance end of year	\$ 251,569	\$ 778,633	\$ 0	\$ 1,030,202
<b>ACCUMULATED AMORTIZATION Account 110</b>				
Balance first of year	\$	\$	\$	\$ 0
Credit during year:				
Accruals charged to:				
Account 110.2 (3)	\$	\$	\$	\$ 0
Other Accounts (specify):				0
				0
Total credits	\$ 0	\$ 0	\$ 0	\$ 0
Debits during year:				
Book cost of plant retired				0
Other debits (specify):				0
				0
Total Debits	\$ 0	\$ 0	\$ 0	\$ 0
Balance end of year	\$ 0	\$ 0	\$ 0	\$ 0

- (1) Account 108 for Class B utilities.
- (2) Not applicable for Class B utilities.
- (3) Account 110 for Class B utilities.

UTILITY NAME: Timber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**REGULATORY COMMISSION EXPENSE  
AMORTIZATION OF RATE CASE EXPENSE (ACCOUNTS 666 AND 766)**

DESCRIPTION OF CASE (DOCKET NO.) (a)	EXPENSE INCURRED DURING YEAR (b)	CHARGED OFF DURING YEAR	
		ACCT. (d)	AMOUNT (e)
_____	\$ _____	_____	\$ _____
_____	_____	_____	_____
_____	_____	_____	_____
Total	\$ <u>0</u>		\$ <u>0</u>

**NONUTILITY PROPERTY (ACCOUNT 121)**

Report separately each item of property with a book cost of \$25,000 or more included in Account 121.  
Other Items may be grouped by classes of property.

DESCRIPTION (a)	BEGINNING YEAR (b)	ADDITIONS (c)	REDUCTIONS (d)	ENDING YEAR BALANCE (e)
_____	\$ _____	\$ _____	\$ _____	\$ <u>0</u>
_____	_____	_____	_____	<u>0</u>
_____	_____	_____	_____	<u>0</u>
_____	_____	_____	_____	<u>0</u>
Total Nonutility Property	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>

**SPECIAL DEPOSITS ( ACCOUNTS 132 AND 133)**

Report hereunder all special deposits carried in Accounts 132 and 133.

DESCRIPTION OF SPECIAL DEPOSITS (a)	YEAR END BOOK COST (b)
SPECIAL DEPOSITS (Account 132): _____ _____ _____	\$ _____ _____ _____
Total Special Deposits	\$ <u>0</u>
OTHER SPECIAL DEPOSITS (Account 133): <u>Petty Cash</u> _____ _____	\$ <u>650</u> _____ _____
Total Other Special Deposits	\$ <u>650</u>

UTILITY NAME: Tymber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**INVESTMENTS AND SPECIAL FUNDS**  
**ACCOUNTS 123 - 127**

Report hereunder all investments and special funds carried in Accounts 123 through 127.

DESCRIPTION OF SECURITY OR SPECIAL FUND (a)	FACE OR PAR VALUE (b)	YEAR END BOOK COST (c)
INVESTMENT IN ASSOCIATED COMPANIES (Account 123): <hr/> <hr/> <hr/> <hr/> <hr/>	\$ <hr/> <hr/> <hr/> <hr/> <hr/>	\$ <hr/> <hr/> <hr/> <hr/> <hr/>
Total Investment in Associated Companies		\$ <u>0</u>
UTILITY INVESTMENTS (Account 124): <hr/> <hr/> <hr/> <hr/> <hr/>	\$ <hr/> <hr/> <hr/> <hr/> <hr/>	\$ <hr/> <hr/> <hr/> <hr/> <hr/>
Total Utility Investment		\$ <u>0</u>
OTHER INVESTMENTS (Account 125): <hr/> <hr/> <hr/> <hr/> <hr/>	\$ <hr/> <hr/> <hr/> <hr/> <hr/>	\$ <hr/> <hr/> <hr/> <hr/> <hr/>
Total Other Investment		\$ <u>0</u>
SPECIAL FUNDS (Class A Utilities: Accounts 126 and 127; Class B Utilities: Account 127): <hr/> <hr/> <hr/> <hr/> <hr/>		\$ <hr/> <hr/> <hr/> <hr/> <hr/>
Total Special Funds		\$ <u>0</u>



UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

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**ACCOUNTS AND NOTES RECEIVABLE - NET**  
**ACCOUNTS 141 - 144**

Report hereunder all accounts and notes receivable included in Accounts 141, 142, and 144. Amounts included in  
Amounts included in Accounts 142 and 144 should be listed individually.

DESCRIPTION (a)		TOTAL (b)
CUSTOMER ACCOUNTS RECEIVABLE (Account 141):		
Water	\$ 11,425	
Wastewater	21,218	
Other		
Total Customer Accounts Receivable		\$ 32,643
OTHER ACCOUNTS RECEIVABLE ( Account 142):		
	\$	
Total Other Accounts Receivable		\$ 0
NOTES RECEIVABLE (Account 144 ):		
	\$	
Total Notes Receivable		\$ 0
Total Accounts and Notes Receivable		\$ 32,643
ACCUMULATED PROVISION FOR UNCOLLECTIBLE ACCOUNTS ( Account 143)		
Balance first of year	\$	
Add: Provision for uncollectibles for current year	\$	
Collection of accounts previously written off		
Utility Accounts		
Others		
Total Additions	\$ 0	
Deduct accounts written off during year:		
Utility Accounts		
Others		
Total accounts written off	\$ 0	
Balance end of year		\$ 0
TOTAL ACCOUNTS AND NOTES RECEIVABLE - NET		\$ 32,643

UTILITY NAME: Timber Creek Utilities, Incorporated

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**ACCOUNTS RECEIVABLE FROM ASSOCIATED COMPANIES**

**ACCOUNT 145**

Report each account receivable from associated companies separately.

DESCRIPTION (a)	TOTAL (b)
	\$
Total	\$ 0

**NOTES RECEIVABLE FROM ASSOCIATED COMPANIES**

**ACCOUNT 146**

Report each note receivable from associated companies separately.

DESCRIPTION (a)	INTEREST RATE (b)	TOTAL (c)
	%	\$
	%	
	%	
	%	
	%	
	%	
	%	
	%	
Total		\$ 0

**MISCELLANEOUS CURRENT AND ACCRUED ASSETS**

**ACCOUNT 174**

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
	\$
Total Miscellaneous Current and Accrued Liabilities	\$ 0

UTILITY NAME: Timber Creek Utilities, Incorporated

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**UNAMORTIZED DEBT DISCOUNT AND EXPENSE AND PREMIUM ON DEBT  
ACCOUNTS 181 AND 251**

Report the net discount and expense or premium separately for each security issue.

DESCRIPTION (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
UNAMORTIZED DEBT DISCOUNT AND EXPENSE (Account 181):	\$ _____	\$ _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total Unamortized Debt Discount and Expense	\$ <u>0</u>	\$ <u>0</u>
UNAMORTIZED PREMIUM ON DEBT (Account 251):	\$ _____	\$ _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total Unamortized Premium on Debt	\$ <u>0</u>	\$ <u>0</u>

**EXTRAORDINARY PROPERTY LOSSES  
ACCOUNT 182**

Report each item separately.

DESCRIPTION (a)	TOTAL (b)
_____	\$ _____
_____	_____
_____	_____
Total Extraordinary Property Losses	\$ <u>0</u>

UTILITY NAME: Tymber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**MISCELLANEOUS DEFERRED DEBITS  
ACCOUNT 186**

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
DEFERRED RATE CASE EXPENSE (Class A Utilities: Account 186.1)		
	\$ _____	\$ _____
	_____	_____
	_____	_____
	_____	_____
Total Deferred Rate Case Expense	\$ <u>0</u>	\$ <u>0</u>
OTHER DEFERRED DEBITS (Class A Utilities: Account 186.2):		
Water	\$ _____	\$ <u>0</u>
Sewer	_____	<u>0</u>
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
Total Other Deferred Debits	\$ <u>0</u>	\$ <u>0</u>
REGULATORY ASSETS (Class A Utilities: Account. 186.3):		
	\$ _____	\$ _____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
Total Regulatory Assets	\$ <u>0</u>	\$ <u>0</u>
<b>TOTAL MISCELLANEOUS DEFERRED DEBITS</b>	<b>\$ <u>0</u></b>	<b>\$ <u>0</u></b>

UTILITY NAME: Tymber Creek Utilities, Incorporated

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**CAPITAL STOCK  
ACCOUNTS 201 AND 204\***

DESCRIPTION (a)	RATE (b)	TOTAL (c)
<b>COMMON STOCK</b>		
Par or stated value per share	%	\$ 100
Shares authorized		100
Shares issued and outstanding		100
Total par value of stock issued	%	\$ 100
Dividends declared per share for year	%	\$ 0
<b>PREFERRED STOCK</b>		
Par or stated value per share	%	\$
Shares authorized		
Shares issued and outstanding		
Total par value of stock issued	%	\$
Dividends declared per share for year	%	\$

\* Account 204 not applicable for Class B utilities.

**BONDS  
ACCOUNT 221**

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	%		\$
	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total			\$ 0

\* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**  
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**STATEMENT OF RETAINED EARNINGS**

1. Dividends should be shown for each class and series of capital stock. Show amounts as dividends per share.
2. Show separately the state and federal income tax effect of items shown in Account No. 439.

ACCT. NO. (a)	DESCRIPTION (b)	AMOUNTS (c)
215	Unappropriated Retained Earnings: Balance Beginning of Year	\$ (132,468)
439	Changes to Account: Adjustments to Retained Earnings ( requires Commission approval prior to use): Credits: _____	\$ _____
	Total Credits:	\$ 0
	Debits: _____	\$ _____
	Total Debits:	\$ 0
435	Balance Transferred from Income	\$ 2,543
436	Appropriations of Retained Earnings: _____	_____
	Total Appropriations of Retained Earnings	\$ 0
437	Dividends Declared: Preferred Stock Dividends Declared _____	_____
438	Common Stock Dividends Declared _____	_____
	Total Dividends Declared	\$ 0
215	Year end Balance	\$ (129,925)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end): _____ _____ _____	_____ _____ _____
214	Total Appropriated Retained Earnings	\$ 0
Total Retained Earnings		\$ (129,925)
Notes to Statement of Retained Earnings:		



UTILITY NAME: Timber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**ADVANCES FROM ASSOCIATED COMPANIES  
ACCOUNT 223**

Report each advance separately.

DESCRIPTION (a)	TOTAL (b)
	\$ _____
	_____
	_____
	_____
	_____
	_____
	_____
	_____
	_____
	_____
Total	\$ <u>0</u>

**OTHER LONG-TERM DEBT  
ACCOUNT 224**

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
	_____ %		\$ _____
	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
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	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
	_____ %		_____
Total			\$ <u>0</u>

\* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

UTILITY NAME: Timber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**NOTES PAYABLE  
ACCOUNTS 232 AND 234**

DESCRIPTION OF OBLIGATION (INCLUDING DATE OF ISSUE AND DATE OF MATURITY) (a)	INTEREST		PRINCIPAL AMOUNT PER BALANCE SHEET (d)
	ANNUAL RATE (b)	FIXED OR VARIABLE * (c)	
NOTES PAYABLE ( Account 232):			
Suntrust Line of Credit	3.25 %		\$ 12,539
Shirah Builders Loan	4.75 %		0
J. Stanley Shirah Master Account	10.00 %		345,383
Stanley Shirah - Other	10.00 %		68,791
Truist PPP Loan	%		8,400
	%		
	%		
	%		
	%		
Total Account 232			\$ 435,113
NOTES PAYABLE TO ASSOC. COMPANIES (Account 234):			
	%		\$
	%		
	%		
	%		
	%		
	%		
	%		
	%		
	%		
Total Account 234			\$ 0

\* For variable rate obligations, provide the basis for the rate. (i.e.. prime + 2%, etc.)

**ACCOUNTS PAYABLE TO ASSOCIATED COMPANIES  
ACCOUNT 233**

Report each account payable separately.

DESCRIPTION (a)	TOTAL (b)
Stanley Shirah Builders	\$ 42,969
Total	\$ 42,969

UTILITY NAME: Tymber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b> December 31, 2020
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**ACCRUED INTEREST AND EXPENSE  
ACCOUNTS 237 AND 427**

DESCRIPTION OF DEBIT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR		INTEREST PAID DURING YEAR (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
ACCOUNT NO. 237.1 - Accrued Interest on Long Term Debt	\$ _____		\$ _____	\$ _____	\$ _____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
_____	_____		_____	_____	_____
Total Account 237.1	\$ <u>0</u>		\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>
ACCOUNT NO. 237.2 - Accrued Interest on Other Liabilities					
Water	\$ _____	427	\$ 8,075	\$ 8,075	\$ _____
Sewer	_____		24,225	24,225	_____
_____	_____		_____	_____	_____
Total Account 237.2	\$ <u>0</u>		\$ <u>32,300</u>	\$ <u>32,300</u>	\$ <u>0</u>
Total Account 237 (1)	\$ <u>0</u>		\$ <u>32,300</u>	\$ <u>32,300</u>	\$ <u>0</u>
INTEREST EXPENSED:				(1) Must agree to F-2 (a), Beginning and Ending Balance of Accrued Interest.  (2) Must agree to F-3 (c), Current Year Interest Expense	
Total accrual Account 237		237	\$ 32,300		
Less Capitalized Interest Portion of AFUDC:			_____		
_____			_____		
Net Interest Expensed to Account No. 427 (2)			\$ <u>32,300</u>		

UTILITY NAME: Timber Creek Utilities, Incorporated

<b>YEAR OF REPORT</b>
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**MISCELLANEOUS CURRENT AND ACCRUED LIABILITIES  
ACCOUNT 241**

DESCRIPTION - Provide itemized listing (a)	BALANCE END OF YEAR (b)
_____	\$ _____
_____	_____
_____	_____
_____	_____
Total Miscellaneous Current and Accrued Liabilities	\$ <u>0</u>

**ADVANCES FOR CONSTRUCTION  
ACCOUNT 252**

NAME OF PAYOR * (a)	BALANCE BEGINNING OF YEAR (b)	DEBITS		CREDITS (e)	BALANCE END OF YEAR (f)
		ACCT. DEBIT (c)	AMOUNT (d)		
_____	\$ _____		\$ _____	\$ _____	\$ <u>0</u>
_____	_____		_____	_____	<u>0</u>
_____	_____		_____	_____	<u>0</u>
_____	_____		_____	_____	<u>0</u>
_____	_____		_____	_____	<u>0</u>
_____	_____		_____	_____	<u>0</u>
_____	_____		_____	_____	<u>0</u>
_____	_____		_____	_____	<u>0</u>
Total	\$ <u>0</u>		\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>

\* Report advances separately by reporting group, designating water or wastewater in column (a).

UTILITY NAME: Tymber Creek Utilities, Incorporated

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**OTHER DEFERRED CREDITS  
ACCOUNT 253**

DESCRIPTION - Provide itemized listing (a)	AMOUNT WRITTEN OFF DURING YEAR (b)	YEAR END BALANCE (c)
REGULATORY LIABILITIES (Class A Utilities: Account 253.1):		
_____	\$ _____	\$ _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total Regulatory Liabilities	\$ _____	\$ _____
OTHER DEFERRED LIABILITIES (Class A Utilities: Account 253.2):		
_____	\$ _____	\$ _____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Total Other Deferred Liabilities	\$ _____	\$ _____
TOTAL OTHER DEFERRED CREDITS	\$ _____	\$ _____

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

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**CONTRIBUTIONS IN AID OF CONSTRUCTION  
ACCOUNT 271**

<b>DESCRIPTION (a)</b>	<b>WATER (W-7) (b)</b>	<b>WASTEWATER (S-7) (c)</b>	<b>W &amp; WW OTHER THAN SYSTEM REPORTING (d)</b>	<b>TOTAL (e)</b>
Balance first of year	\$ <u>155,893</u>	\$ <u>380,306</u>	\$ _____	\$ <u>536,199</u>
Add credits during year:	\$ <u>0</u>	\$ <u>0</u>	\$ _____	\$ <u>0</u>
Less debit charged during the year	\$ <u>0</u>	\$ <u>0</u>	\$ _____	\$ <u>0</u>
Total Contribution In Aid of Construction	\$ <u><u>155,893</u></u>	\$ <u><u>380,306</u></u>	\$ <u><u>0</u></u>	\$ <u><u>536,199</u></u>

**ACCUMULATED AMORTIZATION OF CONTRIBUTIONS IN AID OF CONSTRUCTION  
ACCOUNT 272**

<b>DESCRIPTION (a)</b>	<b>WATER (W-8(a)) (b)</b>	<b>WASTEWATER (S-8(a)) (c)</b>	<b>W &amp; WW OTHER THAN SYSTEM REPORTING (d)</b>	<b>TOTAL (e)</b>
Balance first of year	\$ <u>155,893</u>	\$ <u>380,306</u>	\$ _____	\$ <u>536,199</u>
Debits during the year:	\$ <u>0</u>	\$ <u>0</u>	\$ _____	\$ <u>0</u>
Credits during the year	\$ <u>0</u>	\$ <u>0</u>	\$ _____	\$ <u>0</u>
Total Accumulated Amortization of Contributions In Aid of Construction	\$ <u><u>155,893</u></u>	\$ <u><u>380,306</u></u>	\$ <u><u>0</u></u>	\$ <u><u>536,199</u></u>



UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**

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**RECONCILIATION OF REPORTED NET INCOME WITH TAXABLE  
INCOME FOR FEDERAL INCOME TAXES (UTILITY OPERATIONS)**

1. The reconciliation should include the same detail as furnished on Schedule M-1 of the federal tax return for the year. The reconciliation shall be submitted even though there is no taxable income for the year. Descriptions should clearly indicate the nature of each reconciling amount and show the computations of all tax accruals.
2. If the utility is a member of a group which files a consolidated federal tax return, reconcile reported net income with taxable net income as if a separate return were to be filed, indicating intercompany amounts to be eliminated in such consolidated return. State names of group members, tax assigned to each group member, and basis of allocation, assignments or sharing of the consolidated tax among the group members.

DESCRIPTION (a)	REF. NO. (b)	AMOUNT (c)
Net income for the year	F-3(c)	\$ 2,543
Reconciling items for the year:		
Taxable income not reported on books:		
_____		_____
_____		_____
_____		_____
_____		_____
Deductions recorded on books not deducted for return:		
_____		_____
_____		_____
_____		_____
_____		_____
Income recorded on books not included in return:		
_____		_____
_____		_____
_____		_____
_____		_____
Deduction on return not charged against book income:		
_____		_____
_____		_____
_____		_____
_____		_____
Federal tax net income		\$ 2,543
Computation of tax :		

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**WATER  
OPERATION  
SECTION**

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**UTILITY NAME:****Timber Creek Utilities, Incorporated**

## YEAR OF REPORT

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## WATER LISTING OF SYSTEM GROUPS

List below the name of each reporting system and its certificate number. Those systems which have been consolidated under the same tariff should be assigned a group number. Each individual system which has not been consolidated should be assigned its own group number.

The water financial schedules (W-2 through W-10) should be filed for the group in total.

The water engineering schedules (W-11 through W-14) must be filed for each system in the group.

All of the following water pages (W-2 through W-14) should be completed for each group and arranged by group number.

[illegible]

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**SCHEDULE OF YEAR END WATER RATE BASE**

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WATER UTILITY (d)
101	Utility Plant In Service	W-4(b)	\$ 336,030
	Less:		
	Nonused and Useful Plant (1)		
108	Accumulated Depreciation	W-6(b)	251,569
110	Accumulated Amortization	F-8	0
271	Contributions in Aid of Construction	W-7	155,893
252	Advances for Construction	F-20	
Subtotal			\$ (71,432)
272	Add: Accumulated Amortization of Contributions in Aid of Construction	W-8(a)	\$ 155,893
Subtotal			\$ 84,461
114	Plus or Minus: Acquisition Adjustments (2)	F-7	
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	
	Working Capital Allowance (3)		14,514
	Other (Specify):		
WATER RATE BASE			\$ 98,975
WATER OPERATING INCOME		W-3	\$ 8,835
ACHIEVED RATE OF RETURN (Water Operating Income / Water Rate Base)			8.93%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.

In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME:

Tymber Creek Utilities, Incorporated**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia**WATER OPERATING STATEMENT**

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	CURRENT YEAR (d)
	UTILITY OPERATING INCOME		
400	Operating Revenues	W-9	\$ 144,633
469	Less: Guaranteed Revenue and AFPI	W-9	0
	Net Operating Revenues		\$ 144,633
401	Operating Expenses	W-10(a)	\$ 116,110
403	Depreciation Expense	W-6(a)	9,317
	Less: Amortization of CIAC	W-8(a)	0
	Net Depreciation Expense		\$ 9,317
406	Amortization of Utility Plant Acquisition Adjustment	F-7	
407	Amortization Expense (Other than CIAC)	F-8	0
408.10	Taxes Other Than Income		
	Utility Regulatory Assessment Fee		6,508
408.11	Property Taxes		902
408.12	Payroll Taxes		861
408.13	Other Taxes and Licenses		2,100
408	Total Taxes Other Than Income		\$ 10,371
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
	Utility Operating Expenses		\$ 135,798
	Utility Operating Income		\$ 8,835
	Add Back:		
469	Guaranteed Revenue (and AFPI)	W-9	\$ 0
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		
420	Allowance for Funds Used During Construction		
	Total Utility Operating Income		\$ 8,835



UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WATER UTILITY PLANT ACCOUNTS**

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
301	Organization	\$ 36	\$		\$ 36
302	Franchises	0			0
303	Land and Land Rights	1,131			1,131
304	Structures and Improvements	903			903
305	Collecting and Impounding Reservoirs	0			0
306	Lake, River and Other Intakes	0			0
307	Wells and Springs	0			0
308	Infiltration Galleries and Tunnels	0			0
309	Supply Mains	40,411			40,411
310	Power Generation Equipment	15,165			15,165
311	Pumping Equipment	3,569			3,569
320	Water Treatment Equipment	0			0
330	Distribution Reservoirs and Standpipes	0			0
331	Transmission and Distribution Mains	190,444			190,444
333	Services	11,160			11,160
334	Meters and Meter Installations	40,947	1,315		42,262
335	Hydrants	9,185			9,185
336	Backflow Prevention Devices	0			0
339	Other Plant Miscellaneous Equipment	0			0
340	Office Furniture and Equipment	11,237			11,237
341	Transportation Equipment	4,995	2,817		7,812
342	Stores Equipment	0			0
343	Tools, Shop and Garage Equipment	0			0
344	Laboratory Equipment	0			0
345	Power Operated Equipment	373			373
346	Communication Equipment	0			0
347	Miscellaneous Equipment	2,342			2,342
348	Other Tangible Plant	0			0
TOTAL WATER PLANT		\$ 331,898	\$ 4,132	\$ 0	\$ 336,030

**NOTE:** Any adjustments made to reclassify property from one account to another must be footnoted.

W-4(a)  
GROUP \_\_\_\_\_

UTILITY NAME:

Tymber Creek Utilities, Incorporated

YEAR OF REPORT

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SYSTEM NAME / COUNTY :

Volusia

## WATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 INTANGIBLE PLANT (d)	.2 SOURCE OF SUPPLY AND PUMPING PLANT (e)	.3 WATER TREATMENT PLANT (f)	.4 TRANSMISSION AND DISTRIBUTION PLANT (g)	.5 GENERAL PLANT (h)
301	Organization	\$ 36	\$ 36	\$	\$	\$	\$
302	Franchises	0					
303	Land and Land Rights	1,131		1,131			
304	Structures and Improvements	903		903			
305	Collecting and Impounding Reservoirs	0					
306	Lake, River and Other Intakes	0					
307	Wells and Springs	0					
308	Infiltration Galleries and Tunnels	0					
309	Supply Mains	40,411		40,411			
310	Power Generation Equipment	15,165		15,165			
311	Pumping Equipment	3,569		3,569			
320	Water Treatment Equipment	0					
330	Distribution Reservoirs and Standpipes	0					
331	Transmission and Distribution Mains	190,444				190,444	
333	Services	11,160				11,160	
334	Meters and Meter Installations	42,262				42,262	
335	Hydrants	9,185				9,185	
336	Backflow Prevention Devices	0					
339	Other Plant Miscellaneous Equipment	0					
340	Office Furniture and Equipment	11,237					11,237
341	Transportation Equipment	7,812					7,812
342	Stores Equipment	0					
343	Tools, Shop and Garage Equipment	0					
344	Laboratory Equipment	0					
345	Power Operated Equipment	373					373
346	Communication Equipment	0					
347	Miscellaneous Equipment	2,342					2,342
348	Other Tangible Plant	0					
TOTAL WATER PLANT		\$ 336,030	\$ 36	\$ 61,179	\$ 0	\$ 253,051	\$ 21,764

W-4(b)  
GROUP \_\_\_\_\_

UTILITY NAME: Tymber Creek Utilities, Incorporated

YEAR OF REPORT

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**BASIS FOR WATER DEPRECIATION CHARGES**

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - d) / c (e)
304	Structures and Improvements	32		3.13%
305	Collecting and Impounding Reservoirs			
306	Lake, River and Other Intakes			
307	Wells and Springs			
308	Infiltration Galleries and Tunnels			
309	Supply Mains	35		2.86%
310	Power Generation Equipment	20		5.00%
311	Pumping Equipment	18		5.56%
320	Water Treatment Equipment			
330	Distribution Reservoirs and Standpipes			
331	Transmission and Distribution Mains	43		2.33%
333	Services	40		2.50%
334	Meters and Meter Installations	20		5.00%
335	Hydrants	45		2.22%
336	Backflow Prevention Devices			
339	Other Plant Miscellaneous Equipment			
340	Office Furniture and Equipment	6		16.67%
341	Transportation Equipment	6		16.67%
342	Stores Equipment			
343	Tools, Shop and Garage Equipment			
344	Laboratory Equipment			
345	Power Operated Equipment			
346	Communication Equipment			
347	Miscellaneous Equipment	15		6.67%
348	Other Tangible Plant			
Water Plant Composite Depreciation Rate *				

\* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Timber Creek Utilities, Incorporated

YEAR OF REPORT

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION**

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS (d + e) (f)
304	Structures and Improvements	\$ 294	\$ 28	\$	\$ 28
305	Collecting and Impounding Reservoirs	0			0
306	Lake, River and Other Intakes	0			0
307	Wells and Springs	0			0
308	Infiltration Galleries and Tunnels	0			0
309	Supply Mains	20,784	1,155		1,155
310	Power Generation Equipment	15,165			0
311	Pumping Equipment	837	198		198
320	Water Treatment Equipment	0			0
330	Distribution Reservoirs and Standpipes	0			0
331	Transmission and Distribution Mains	158,488	4,429		4,429
333	Services	11,083			0
334	Meters and Meter Installations	13,154	2,080		2,080
335	Hydrants	7,920	204		204
336	Backflow Prevention Devices	0			0
339	Other Plant Miscellaneous Equipment	0			0
340	Office Furniture and Equipment	11,237			0
341	Transportation Equipment	2,082	1,067		1,067
342	Stores Equipment	0			0
343	Tools, Shop and Garage Equipment	0			0
344	Laboratory Equipment	0			0
345	Power Operated Equipment	373			0
346	Communication Equipment	0			0
347	Miscellaneous Equipment	835	156		156
348	Other Tangible Plant	0			0
TOTAL WATER ACCUMULATED DEPRECIATION		\$ 242,252	9,317	0	9,317

\* Specify nature of transaction  
Use ( ) to denote reversal entries.

W-6(a)  
GROUP \_\_\_\_\_

**YEAR OF REPORT**

December 31, 2020

UTILITY NAME: Tymber Creek Utilities, Incorporated

SYSTEM NAME / COUNTY : Volusia

**ANALYSIS OF ENTRIES IN WATER ACCUMULATED DEPRECIATION (CONT'D)**

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (k)
304	Structures and Improvements	\$	\$	\$	0	322
305	Collecting and Impounding Reservoirs				0	0
306	Lake, River and Other Intakes				0	0
307	Wells and Springs				0	0
308	Infiltration Galleries and Tunnels				0	0
309	Supply Mains				0	21,939
310	Power Generation Equipment				0	15,165
311	Pumping Equipment				0	1,035
320	Water Treatment Equipment				0	0
330	Distribution Reservoirs and Standpipes				0	0
331	Transmission and Distribution Mains				0	162,917
333	Services				0	11,083
334	Meters and Meter Installations				0	15,234
335	Hydrants				0	8,124
336	Backflow Prevention Devices				0	0
339	Other Plant Miscellaneous Equipment				0	0
340	Office Furniture and Equipment				0	11,237
341	Transportation Equipment				0	3,149
342	Stores Equipment				0	0
343	Tools, Shop and Garage Equipment				0	0
344	Laboratory Equipment				0	0
345	Power Operated Equipment				0	373
346	Communication Equipment				0	0
347	Miscellaneous Equipment				0	991
348	Other Tangible Plant				0	0
TOTAL WATER ACCUMULATED DEPRECIATION		\$ 0	\$ 0	\$ 0	\$ 0	\$ 251,569

SYSTEM NAME / COUNTY : Volusia

**YEAR OF REPORT**  
December 31, 2020

DESCRIPTION (a)	REFERENCE (b)	WATER (c)
Balance first of year		\$ 155,893
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	W-8(a)	\$ 0
Contributions received from Developer or Contractor Agreements in cash or property	W-8(b)	0
Total Credits		\$ 0
Less debits charged during the year (All debits charged during the year must be explained below)		\$
Total Contributions In Aid of Construction		\$ 155,893

Explain all debits charged to Account 271 during the year below:

[illegible]

UTILITY NAME:

Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia

**WATER CIAC SCHEDULE "A"**

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY,  
MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
Tymber Creek HOA Hook-Up Irrigation Meter		\$ 100	\$ 0
			0
			0
			0
			0
			0
			0
			0
			0
Total Credits			\$ 0

**ACCUMULATED AMORTIZATION OF WATER  
CONTRIBUTIONS IN AID OF CONSTRUCTION**

DESCRIPTION (a)	WATER (b)
Balance first of year	\$ 155,893
Debits during the year:	
Accruals charged to Account 272	\$ 0
Other debits (specify) :	
Total debits	\$ 0
Credits during the year (specify) :	
	\$
Total credits	\$ 0
Balance end of year	\$ 155,893



**Tymer Creek Utilities, Incorporated**

December 31, 2020

## Volusia

**ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION  
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS  
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR**

DESCRIPTION (a)	INDICATE CASH OR PROPERTY (b)	AMOUNT (c)
None _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	\$ ____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
<b>Total Credits</b>		\$ _____ 0

UTILITY NAME:

Tymber Creek Utilities, Incorporated**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia**WATER OPERATING REVENUE**

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS (d)	AMOUNT (e)
460	Water Sales: Unmetered Water Revenue			\$
461.1	Metered Water Revenue: Sales to Residential Customers	419	419	139,125
461.2	Sales to Commercial Customers	1	1	3,618
461.3	Sales to Industrial Customers			
461.4	Sales to Public Authorities			
461.5	Sales Multiple Family Dwellings			
Total Metered Sales		420	420	\$ 142,743
462.1	Fire Protection Revenue: Public Fire Protection			
462.2	Private Fire Protection			
Total Fire Protection Revenue		0	0	\$ 0
464	Other Sales To Public Authorities			
465	Sales To Irrigation Customers			
466	Sales For Resale			
467	Interdepartmental Sales			
Total Water Sales		420	420	\$ 142,743
469	Other Water Revenues: Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			\$
470	Forfeited Discounts			
471	Miscellaneous Service Revenues			1,890
472	Rents From Water Property			
473	Interdepartmental Rents			
474	Other Water Revenues			
Total Other Water Revenues				\$ 1,890
Total Water Operating Revenues				\$ 144,633

\* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WATER UTILITY EXPENSE ACCOUNT MATRIX**

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 SOURCE OF SUPPLY AND EXPENSES - OPERATIONS (d)	.2 SOURCE OF SUPPLY AND EXPENSES - MAINTENANCE (e)
601	Salaries and Wages - Employees	\$ 6,346	\$	\$
603	Salaries and Wages - Officers, Directors and Majority Stockholders	3,950		
604	Employee Pensions and Benefits	344		
610	Purchased Water	59,751	59,751	
615	Purchased Power	487	487	
616	Fuel for Power Production	0		
618	Chemicals	0		
620	Materials and Supplies	788		
631	Contractual Services-Engineering	0		
632	Contractual Services - Accounting	441		
633	Contractual Services - Legal	0		
634	Contractual Services - Mgt. Fees	7,200		
635	Contractual Services - Testing	1,006		
636	Contractual Services - Other	28,541		
641	Rental of Building/Real Property	2,896		
642	Rental of Equipment	0		
650	Transportation Expenses	2,138		
656	Insurance - Vehicle	218		
657	Insurance - General Liability	251		
658	Insurance - Workman's Comp.	0		
659	Insurance - Other	0		
660	Advertising Expense	0		
666	Regulatory Commission Expenses - Amortization of Rate Case Expense	0		
667	Regulatory Commission Exp.-Other	0		
668	Water Resource Conservation Exp.	0		
670	Bad Debt Expense	0		
675	Miscellaneous Expenses	1,753		
Total Water Utility Expenses		\$ 116,110	\$ 60,238	\$ 0

UTILITY NAME:

Timber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia

**WATER UTILITY EXPENSE ACCOUNT MATRIX**

<b>.3 WATER TREATMENT EXPENSES - OPERATIONS (f)</b>	<b>.4 WATER TREATMENT EXPENSES - MAINTENANCE (g)</b>	<b>.5 TRANSMISSION &amp; DISTRIBUTION EXPENSES - OPERATIONS (h)</b>	<b>.6 TRANSMISSION &amp; DISTRIBUTION EXPENSES - MAINTENANCE (i)</b>	<b>.7 CUSTOMER ACCOUNTS EXPENSE (j)</b>	<b>.8 ADMIN. &amp; GENERAL EXPENSES (k)</b>
\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ 6,346
_____	_____	_____	_____	_____	3,950
_____	_____	_____	_____	_____	344
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	788	_____	_____	_____	_____
_____	_____	_____	_____	_____	0
_____	_____	_____	_____	_____	441
_____	_____	_____	_____	_____	0
_____	_____	_____	_____	_____	7,200
_____	_____	_____	_____	_____	1,006
_____	_____	_____	_____	28,541	_____
_____	_____	_____	_____	_____	2,896
_____	_____	_____	_____	_____	0
_____	_____	_____	_____	_____	2,138
_____	_____	_____	_____	_____	218
_____	_____	_____	_____	_____	251
_____	_____	_____	_____	_____	0
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	1,753
\$ 0	\$ 788	\$ 0	\$ 0	\$ 28,541	\$ 26,543

UTILITY NAME:

Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia

### PUMPING AND PURCHASED WATER STATISTICS

MONTH (a)	WATER PURCHASED FOR RESALE ( Omit 000's ) (b)	FINISHED WATER PUMPED FROM WELLS ( Omit 000's ) (c)	WATER USED FOR LINE FLUSHING, FIGHTING FIRES, ETC. (d)	TOTAL WATER PUMPED AND PURCHASED ( Omit 000's ) [ (b)+(c)-(d) ] (e)	WATER SOLD TO CUSTOMERS ( Omit 000's ) (f)
January	1,851			1,851	1,754
February	1,830			1,830	1,711
March	1,686			1,686	1,635
April	2,350			2,350	2,071
May	2,148			2,148	2,209
June	2,102			2,102	1,746
July	2,118			2,118	1,930
August	2,118			2,118	2,051
September	2,208			2,208	1,808
October	2,004			2,004	1,694
November	2,102			2,102	1,671
December	1,971			1,971	1,757
Total for Year	24,488	0	0	24,488	22,037

If water is purchased for resale, indicate the following:

Vendor City of Ormond Beach Acct# 314070-290620

Point of delivery 19 N. Tymber Creek Road Meter

If water is sold to other water utilities for redistribution, list names of such utilities below:

N/A

### SOURCE OF SUPPLY

List for each source of supply:	CAPACITY OF WELL	GALLONS PER DAY FROM SOURCE	TYPE OF SOURCE
N/A			

UTILITY NAME: Timber Creek Utilities, Incorporated

YEAR OF REPORT

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

### WATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each water treatment facility

Permitted Capacity of Plant (GPD):

See W-11

Location of measurement of capacity  
(i.e. Wellhead, Storage Tank):

See W-11

Type of treatment (reverse osmosis,  
(sedimentation, chemical, aerated, etc.):

See W-11

#### LIME TREATMENT

Unit rating (i.e., GPM, pounds  
per gallon):

See W-11

Manufacturer:

See W-11

#### FILTRATION

Type and size of area:

Pressure (in square feet):

See W-11

Manufacturer:

See W-11

Gravity (in GPM/square feet):

See W-11

Manufacturer:

See W-11

W-12

GROUP \_\_\_\_\_

SYSTEM \_\_\_\_\_

UTILITY NAME: Tymber Creek Utilities, IncorporatedSYSTEM NAME / COUNTY : Volusia**CALCULATION OF THE WATER SYSTEM METER EQUIVALENTS**

METER SIZE (a)	TYPE OF METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		
5/8"	Displacement	1.0	418	418
3/4"	Displacement	1.5		
1"	Displacement	2.5	2	5
1 1/2"	Displacement or Turbine	5.0		
2"	Displacement, Compound or Turbine	8.0		
3"	Displacement	15.0		
3"	Compound	16.0		
3"	Turbine	17.5		
4"	Displacement or Compound	25.0		
4"	Turbine	30.0		
6"	Displacement or Compound	50.0		
6"	Turbine	62.5		
8"	Compound	80.0		
8"	Turbine	90.0		
10"	Compound	115.0		
10"	Turbine	145.0		
12"	Turbine	215.0		
Total Water System Meter Equivalents				423

**CALCULATION OF THE WATER SYSTEM EQUIVALENT RESIDENTIAL CONNECTIONS**

Provide a calculation used to determine the value of one water equivalent residential connection (ERC).

Use one of the following methods:

- (a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.
- (b) If no historical flow data are available, use:  

$$ERC = ( \text{Total SFR gallons sold (Omit 000)} / 365 \text{ days} / 350 \text{ gallons per day} )$$

ERC Calculation:



UTILITY NAME: Tymber Creek Utilities, IncorporatedSYSTEM NAME / COUNTY : Volusia**OTHER WATER SYSTEM INFORMATION**

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present ERCs \* the system can efficiently serve. 423
2. Maximum number of ERCs \* which can be served. 500
3. Present system connection capacity (in ERCs \*) using existing lines. 500
4. Future connection capacity (in ERCs \*) upon service area buildout. 500
5. Estimated annual increase in ERCs \*. 0
6. Is the utility required to have fire flow capacity? Yes  
If so, how much capacity is required? Unknown
7. Attach a description of the fire fighting facilities. Not Available.
8. Describe any plans and estimated completion dates for any enlargements or improvements of this system:  
None
9. When did the company last file a capacity analysis report with the DEP? unknown
10. If the present system **does not** meet the requirements of DEP rules:
  - a. Attach a description of the plant upgrade necessary to meet the DEP rules.
  - b. Have these plans been approved by DEP? N/A
  - c. When will construction begin? N/A
  - d. Attach plans for funding the required upgrading.
  - e. Is this system under any Consent Order with DEP? No
11. Department of Environmental Protection ID # 3064 P 10226
12. Water Management District Consumptive Use Permit # N/A
  - a. Is the system in compliance with the requirements of the CUP?
  - b. If not, what are the utility's plans to gain compliance? Yes

\* An ERC is determined based on the calculation on the bottom of Page W-13.

**WASTEWATER  
OPERATION  
SECTION**

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**Timber Creek Utilities, Incorporated**

**YEAR OF REPORT**  
December 31, 2020

## WASTEWATER LISTING OF SYSTEM GROUPS

List below the name of each reporting system and its certificate number. Those systems which have been consolidated under the same tariff should be assigned a group number. Each individual system which has not been consolidated should be assigned its own group number.

The wastewater financial schedules (S-2 through S-10) should be filed for the group in total.

The wastewater engineering schedules (S-11 through S-13) must be filed for each system in the group.

All of the following wastewater pages (S-2 through S-13) should be completed for each group and arranged by group number.

[illegible]

UTILITY NAME:

Timber Creek Utilities, Incorporated**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia**SCHEDULE OF YEAR END WASTEWATER RATE BASE**

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WASTEWATER UTILITY (d)
101	Utility Plant In Service	S-4(a)	\$ 1,035,413
	Less:		
	Nonused and Useful Plant (1)		
108	Accumulated Depreciation	S-6(b)	778,633
110	Accumulated Amortization	F-8	0
271	Contributions in Aid of Construction	S-7	380,306
252	Advances for Construction	F-20	
Subtotal			\$ (123,526)
272	Add:		
	Accumulated Amortization of		
	Contributions in Aid of Construction	S-8(a)	\$ 380,306
Subtotal			\$ 256,780
	Plus or Minus:		
114	Acquisition Adjustments (2)	F-7	
115	Accumulated Amortization of Acquisition Adjustments (2)	F-7	
	Working Capital Allowance (3)		33,931
	Other (Specify):		
WASTEWATER RATE BASE			\$ 290,711
WASTEWATER OPERATING INCOME		S-3	\$ 26,008
ACHIEVED RATE OF RETURN (Wastewater Operating Income / Wastewater Rate Base)			8.95%

NOTES : (1) Estimate based on the methodology used in the last rate proceeding.

(2) Include only those Acquisition Adjustments that have been approved by the Commission.

(3) Calculation consistent with last rate proceeding.

In absence of a rate proceeding, Class A utilities will use the Balance Sheet Method and  
Class B Utilities will use the One-eighth Operating and Maintenance Expense Method.

UTILITY NAME:

Timber Creek Utilities, Incorporated**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia**WASTEWATER OPERATING STATEMENT**

ACCT. NO. (a)	ACCOUNT NAME (b)	REFERENCE PAGE (c)	WASTEWATER UTILITY (d)
UTILITY OPERATING INCOME			
400	Operating Revenues	S-9(a)	\$ 352,672
530	Less: Guaranteed Revenue (and AFPI)	S-9(a)	0
Net Operating Revenues			\$ 352,672
401	Operating Expenses	S-10(a)	\$ 271,447
403	Depreciation Expense	S-6(a)	33,060
	Less: Amortization of CIAC	S-8(a)	0
Net Depreciation Expense			\$ 33,060
406	Amortization of Utility Plant Acquisition Adjustment	F-7	
407	Amortization Expense (Other than CIAC)	F-8	0
408.10	Taxes Other Than Income Utility Regulatory Assessment Fee		15,870
408.11	Property Taxes		3,703
408.12	Payroll Taxes		2,584
408.13	Other Taxes and Licenses		
408	Total Taxes Other Than Income		\$ 22,157
409.1	Income Taxes		
410.10	Deferred Federal Income Taxes		
410.11	Deferred State Income Taxes		
411.10	Provision for Deferred Income Taxes - Credit		
412.10	Investment Tax Credits Deferred to Future Periods		
412.11	Investment Tax Credits Restored to Operating Income		
Utility Operating Expenses			\$ 326,664
Utility Operating Income			\$ 26,008
Add Back:			
530	Guaranteed Revenue (and AFPI)	S-9(a)	\$ 0
413	Income From Utility Plant Leased to Others		
414	Gains (losses) From Disposition of Utility Property		
420	Allowance for Funds Used During Construction		
Total Utility Operating Income			\$ 26,008

UTILITY NAME: Tymber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WASTEWATER UTILITY PLANT ACCOUNTS**

ACCT. NO. (a)	ACCOUNT NAME (b)	PREVIOUS YEAR (c)	ADDITIONS (d)	RETIREMENTS (e)	CURRENT YEAR (f)
351	Organization	\$ 0	\$	\$	\$ 0
352	Franchises	0			0
353	Land and Land Rights	4,524			4,524
354	Structures and Improvements	113,560			113,560
355	Power Generation Equipment	0			0
360	Collection Sewers - Force	11,966			11,966
361	Collection Sewers - Gravity	493,482			493,482
362	Special Collecting Structures	0			0
363	Services to Customers	43,358			43,358
364	Flow Measuring Devices	6,406			6,406
365	Flow Measuring Installations	0			0
366	Reuse Services	0			0
367	Reuse Meters and Meter Installations	0			0
370	Receiving Wells	36,220			36,220
371	Pumping Equipment	33,089	12,932		46,021
374	Reuse Distribution Reservoirs	0			0
375	Reuse Transmission and Distribution System	0			0
380	Treatment and Disposal Equipment	246,420	2,491		248,911
381	Plant Sewers	0			0
382	Outfall Sewer Lines	10,827			10,827
389	Other Plant Miscellaneous Equipment	2,871	2,854		5,725
390	Office Furniture and Equipment	9,834			9,834
391	Transportation Equipment	0	2,817		2,817
392	Stores Equipment	0			0
393	Tools, Shop and Garage Equipment	0			0
394	Laboratory Equipment	0			0
395	Power Operated Equipment	1,762			1,762
396	Communication Equipment	0			0
397	Miscellaneous Equipment	0			0
398	Other Tangible Plant	0			0
Total Wastewater Plant		\$ 1,014,319	\$ 21,094	\$ 0	\$ 1,035,413

**NOTE:** Any adjustments made to reclassify property from one account to another must be footnoted.



UTILITY NAME: Tymer Creek Utilities, Incorporated

SYSTEM NAME / COUNTY : Volusia

WASTEWATER UTILITY PLANT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	.1 INTANGIBLE PLANT (g)	.2 COLLECTION PLANT (h)	.3 SYSTEM PUMPING PLANT (i)	.4 TREATMENT AND DISPOSAL (j)	.5 RECLAIMED WASTEWATER TREATMENT PLANT (i)	.6 RECLAIMED WASTEWATER DISTRIBUTION PLANT (j)	.7 GENERAL PLANT (k)
351	Organization	\$	\$	\$	\$	\$	\$	\$
352	Franchises							
353	Land and Land Rights				4,524			
354	Structures and Improvements				113,560			
355	Power Generation Equipment							
360	Collection Sewers - Force		11,966					
361	Collection Sewers - Gravity		493,482					
362	Special Collecting Structures							
363	Services to Customers		43,358					
364	Flow Measuring Devices		6,406					
365	Flow Measuring Installations							
366	Reuse Services							
367	Reuse Meters and Meter Installations							
370	Receiving Wells			36,220				
371	Pumping Equipment			46,021				
374	Reuse Distribution Reservoirs							
375	Reuse Transmission and Distribution System							
380	Treatment and Disposal Equipment				248,911			
381	Plant Sewers							
382	Outfall Sewer Lines				10,827			
389	Other Plant Miscellaneous Equipment				5,725			
390	Office Furniture and Equipment							9,834
391	Transportation Equipment							2,817
392	Stores Equipment							
393	Tools, Shop and Garage Equipment							
394	Laboratory Equipment							
395	Power Operated Equipment							1,762
396	Communication Equipment							
397	Miscellaneous Equipment							
398	Other Tangible Plant							
Total Wastewater Plant		\$ 0	\$ 555,212	\$ 82,241	\$ 383,547	\$ 0	\$ 0	\$ 14,413

NOTE: Any adjustments made to reclassify property from one account to another must be footnoted.

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**BASIS FOR WASTEWATER DEPRECIATION CHARGES**

ACCT. NO. (a)	ACCOUNT NAME (b)	AVERAGE SERVICE LIFE IN YEARS (c)	AVERAGE NET SALVAGE IN PERCENT (d)	DEPRECIATION RATE APPLIED IN PERCENT (100% - D) / C (e)
354	Structures and Improvements	32		3.13%
355	Power Generation Equipment			
360	Collection Sewers - Force	30		3.33%
361	Collection Sewers - Gravity	45		2.22%
362	Special Collecting Structures			
363	Services to Customers	38		2.63%
364	Flow Measuring Devices	5		20.00%
365	Flow Measuring Installations			
366	Reuse Services			
367	Reuse Meters and Meter Installations			
370	Receiving Wells	30		3.33%
371	Pumping Equipment	18		5.56%
374	Reuse Distribution Reservoirs			
375	Reuse Transmission/Distribution Sys.			
380	Treatment and Disposal Equipment	18		5.56%
381	Plant Sewers	35		2.86%
382	Outfall Sewer Lines	30		3.33%
389	Other Plant Miscellaneous Equipment	18		5.56%
390	Office Furniture and Equipment	6		16.67%
391	Transportation Equipment	6		16.67%
392	Stores Equipment			
393	Tools, Shop and Garage Equipment			
394	Laboratory Equipment			
395	Power Operated Equipment	12		8.33%
396	Communication Equipment			
397	Miscellaneous Equipment			
398	Other Tangible Plant			
Wastewater Plant Composite Depreciation Rate *				

\* If depreciation rates prescribed by this Commission are on a total composite basis, entries should be made on this line only.

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**ANALYSIS OF ENTRIES IN WASTEWATER ACCUMULATED DEPRECIATION**

ACCT. NO. (a)	ACCOUNT NAME (b)	BALANCE AT BEGINNING OF YEAR (c)	ACCRUALS (d)	OTHER CREDITS * (e)	TOTAL CREDITS ( d + e ) (f)
354	Structures and Improvements	\$ 93,960	\$ 3,549	\$	\$ 3,549
355	Power Generation Equipment	0			0
360	Collection Sewers - Force	8,870	399		399
361	Collection Sewers - Gravity	319,688	10,966		10,966
362	Special Collecting Structures	0			0
363	Services to Customers	43,358			0
364	Flow Measuring Devices	6,406			0
365	Flow Measuring Installations	0			0
366	Reuse Services	0			0
367	Reuse Meters and Meter Installations	0			0
370	Receiving Wells	14,329	1,207		1,207
371	Pumping Equipment	4,265	2,198		2,198
374	Reuse Distribution Reservoirs	0			0
375	Reuse Transmission/Distribution Sys.	0			0
380	Treatment and Disposal Equipment	232,684	13,759		13,759
381	Plant Sewers	0			0
382	Outfall Sewer Lines	8,843	361		361
389	Other Plant Miscellaneous Equipment	2,528	239		239
390	Office Furniture and Equipment	9,834			0
391	Transportation Equipment	0	235		235
392	Stores Equipment	0			0
393	Tools, Shop and Garage Equipment	0			0
394	Laboratory Equipment	0			0
395	Power Operated Equipment	808	147		147
396	Communication Equipment	0			0
397	Miscellaneous Equipment	0			0
398	Other Tangible Plant	0			0
Total Depreciable Wastewater Plant in Service		\$ 745,573	\$ 33,060	\$ 0	\$ 33,060

\* Specify nature of transaction.  
Use ( ) to denote reversal entries.

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**ANALYSIS OF ENTRIES IN WASTEWATER ACCUMULATED DEPRECIATION**

ACCT. NO. (a)	ACCOUNT NAME (b)	PLANT RETIRED (g)	SALVAGE AND INSURANCE (h)	COST OF REMOVAL AND OTHER CHARGES (i)	TOTAL CHARGES (g-h+i) (j)	BALANCE AT END OF YEAR (c+f-j) (k)
354	Structures and Improvements	\$	\$	\$	\$ 0	\$ 97,509
355	Power Generation Equipment				0	0
360	Collection Sewers - Force				0	9,269
361	Collection Sewers - Gravity				0	330,654
362	Special Collecting Structures				0	0
363	Services to Customers				0	43,358
364	Flow Measuring Devices				0	6,406
365	Flow Measuring Installations				0	0
366	Reuse Services				0	0
367	Reuse Meters and Meter Installations				0	0
370	Receiving Wells				0	15,536
371	Pumping Equipment				0	6,463
374	Reuse Distribution Reservoirs				0	0
375	Reuse Transmission/Distribution Sys.				0	0
380	Treatment and Disposal Equipment				0	246,443
381	Plant Sewers				0	0
382	Outfall Sewer Lines				0	9,204
389	Other Plant Miscellaneous Equipment				0	2,767
390	Office Furniture and Equipment				0	9,834
391	Transportation Equipment				0	235
392	Stores Equipment				0	0
393	Tools, Shop and Garage Equipment				0	0
394	Laboratory Equipment				0	0
395	Power Operated Equipment				0	955
396	Communication Equipment				0	0
397	Miscellaneous Equipment				0	0
398	Other Tangible Plant				0	0
Total Depreciable Wastewater Plant in Service		\$ 0	\$ 0	\$ 0	\$ 0	\$ 778,633

\* Specify nature of transaction.  
Use ( ) to denote reversal entries.

S-6(b)  
GROUP \_\_\_\_\_

**YEAR OF REPORT**  
December 31, 2020

**CONTRIBUTIONS IN AID OF CONSTRUCTION  
ACCOUNT 271**

DESCRIPTION (a)	REFERENCE (b)	WASTEWATER (c)
Balance first of year		\$ 380,306
Add credits during year:		
Contributions received from Capacity, Main Extension and Customer Connection Charges	S-8(a)	\$ 0
Contributions received from Developer or Contractor Agreements in cash or property	S-8(b)	0
Total Credits		\$ 0
Less debits charged during the year (All debits charged during the year must be explained below)		\$
Total Contributions In Aid of Construction		\$ 380,306

Explain all debits charged to Account 271 during the year below:

[illegible]

UTILITY NAME: Timber Creek Utilities, Incorporated

YEAR OF REPORT  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WASTEWATER CIAC SCHEDULE "A"**

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION RECEIVED FROM CAPACITY,  
MAIN EXTENSION AND CUSTOMER CONNECTION CHARGES RECEIVED DURING THE YEAR

DESCRIPTION OF CHARGE (a)	NUMBER OF CONNECTIONS (b)	CHARGE PER CONNECTION (c)	AMOUNT (d)
N/A		\$	0
			0
			0
			0
			0
			0
			0
			0
			0
Total Credits			\$ 0

**ACCUMULATED AMORTIZATION OF WASTEWATER  
CONTRIBUTIONS IN AID OF CONSTRUCTION**

DESCRIPTION (a)	WASTEWATER (b)
Balance first of year	\$ 380,306
Debits during the year:	
Accruals charged to Account 272	\$
Other debits (specify) :	
Total debits	\$ 0
Credits during the year (specify) :	
	\$
Total credits	\$ 0
Balance end of year	\$ 380,306

**YEAR OF REPORT**  
December 31, 2020

## Volusia

ADDITIONS TO CONTRIBUTIONS IN AID OF CONSTRUCTION  
RECEIVED FROM ALL DEVELOPERS OR CONTRACTORS AGREEMENTS  
WHICH CASH OR PROPERTY WAS RECEIVED DURING THE YEAR

S-8(b)  
GROUP \_\_\_\_\_



UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WASTEWATER OPERATING REVENUE**

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS * (d)	AMOUNTS (e)
<b>WASTEWATER SALES</b>				
	Flat Rate Revenues:			
521.1	Residential Revenues			\$
521.2	Commercial Revenues			
521.3	Industrial Revenues			
521.4	Revenues From Public Authorities			
521.5	Multiple Family Dwelling Revenues			
521.6	Other Revenues			
521	Total Flat Rate Revenues	0	0	\$ 0
	Measured Revenues:			
522.1	Residential Revenues	419	419	341,471
522.2	Commercial Revenues	1	1	5,529
522.3	Industrial Revenues			
522.4	Revenues From Public Authorities			
522.5	Multiple Family Dwelling Revenues			
522	Total Measured Revenues	420	420	\$ 347,000
523	Revenues From Public Authorities			
524	Revenues From Other Systems			
525	Interdepartmental Revenues			
	Total Wastewater Sales	420	420	\$ 347,000
<b>OTHER WASTEWATER REVENUES</b>				
530	Guaranteed Revenues (Including Allowance for Funds Prudently Invested or AFPI)			\$
531	Sale of Sludge			
532	Forfeited Discounts			
534	Rents From Wastewater Property			
535	Interdepartmental Rents			
536	Other Wastewater Revenues			5,672
	Total Other Wastewater Revenues			\$ 5,672

\* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WASTEWATER OPERATING REVENUE**

ACCT. NO. (a)	DESCRIPTION (b)	BEGINNING YEAR NO. CUSTOMERS * (c)	YEAR END NUMBER OF CUSTOMERS * (d)	AMOUNTS (e)
RECLAIMED WATER SALES				
540.1	Flat Rate Reuse Revenues: Residential Reuse Revenues			\$
540.2	Commercial Reuse Revenues			
540.3	Industrial Reuse Revenues			
540.4	Reuse Revenues From Public Authorities			
540.5	Other Revenues			
540	Total Flat Rate Reuse Revenues	0	0	\$ 0
541.1	Measured Reuse Revenues: Residential Reuse Revenues			
541.2	Commercial Reuse Revenues			
541.3	Industrial Reuse Revenues			
541.4	Reuse Revenues From Public Authorities			
541	Total Measured Reuse Revenues	0	0	\$ 0
544	Reuse Revenues From Other Systems			
Total Reclaimed Water Sales				\$ 0
Total Wastewater Operating Revenues				\$ 352,672

\* Customer is defined by Rule 25-30.210(1), Florida Administrative Code.

UTILITY NAME: Tymer Creek Utilities, Incorporated

YEAR OF REPORT  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

WASTEWATER UTILITY EXPENSE ACCOUNT MATRIX

ACCT. NO. (a)	ACCOUNT NAME (b)	CURRENT YEAR (c)	.1 COLLECTION EXPENSES- OPERATIONS (d)	.2 COLLECTION EXPENSES- MAINTENANCE (e)	.3 PUMPING EXPENSES - OPERATIONS (f)	.4 PUMPING EXPENSES - MAINTENANCE (g)	.5 TREATMENT & DISPOSAL EXPENSES - OPERATIONS (h)	.6 TREATMENT & DISPOSAL EXPENSES - MAINTENANCE (i)
701	Salaries and Wages - Employees	\$ 19,038	\$	\$	\$	\$	\$	\$
703	Salaries and Wages - Officers, Directors and Majority Stockholders	11,850						
704	Employee Pensions and Benefits	1,033						
710	Purchased Sewage Treatment	0						
711	Sludge Removal Expense	30,025					30,025	
715	Purchased Power	19,403						
716	Fuel for Power Production	0						
718	Chemicals	4,121					4,121	
720	Materials and Supplies	2,945						2,945
731	Contractual Services-Engineering	1,054		1,054				
732	Contractual Services - Accounting	1,659						
733	Contractual Services - Legal	0						
734	Contractual Services - Mgt. Fees	19,470						
735	Contractual Services - Testing	28,542					28,542	
736	Contractual Services - Other	75,249					75,249	
741	Rental of Building/Real Property	46,849						
742	Rental of Equipment	237						
750	Transportation Expenses	3,337						
756	Insurance - Vehicle	654						
757	Insurance - General Liability	753						
758	Insurance - Workman's Comp.	0						
759	Insurance - Other	0						
760	Advertising Expense	0						
766	Regulatory Commission Expenses - Amortization of Rate Case Expense	0						
767	Regulatory Commission Exp.-Other	0						
770	Bad Debt Expense	0						
775	Miscellaneous Expenses	5,228						
Total Wastewater Utility Expenses		\$ 271,447	\$ 0	\$ 1,054	\$ 0	\$ 0	\$ 137,937	\$ 2,945

UTILITY NAME: Timber Creek Utilities, Incorporated

**YEAR OF REPORT**  
December 31, 2020

SYSTEM NAME / COUNTY : Volusia

**WASTEWATER UTILITY EXPENSE ACCOUNT MATRIX**

ACCT. NO. (a)	ACCOUNT NAME (b)	.7 CUSTOMER ACCOUNTS EXPENSE (j)	.8 ADMIN. & GENERAL EXPENSES (k)	.9 RECLAIMED WATER TREATMENT EXPENSES- OPERATIONS (l)	.10 RECLAIMED WATER TREATMENT EXPENSES- MAINTENANCE (m)	.11 RECLAIMED WATER DISTRIBUTION EXPENSES- OPERATIONS (n)	.12 RECLAIMED WATER DISTRIBUTION EXPENSES- MAINTENANCE (o)
701	Salaries and Wages - Employees	\$ _____	\$ 19,038	\$ _____	\$ _____	\$ _____	\$ _____
703	Salaries and Wages - Officers, Directors and Majority Stockholders	_____	11,850	_____	_____	_____	_____
704	Employee Pensions and Benefits	_____	1,033	_____	_____	_____	_____
710	Purchased Sewage Treatment	_____	_____	_____	_____	_____	_____
711	Sludge Removal Expense	_____	_____	_____	_____	_____	_____
715	Purchased Power	_____	19,403	_____	_____	_____	_____
716	Fuel for Power Purchased	_____	_____	_____	_____	_____	_____
718	Chemicals	_____	_____	_____	_____	_____	_____
720	Materials and Supplies	_____	_____	_____	_____	_____	_____
731	Contractual Services-Engineering	_____	0	_____	_____	_____	_____
732	Contractual Services - Accounting	_____	1,659	_____	_____	_____	_____
733	Contractual Services - Legal	_____	0	_____	_____	_____	_____
734	Contractual Services - Mgt. Fees	_____	19,470	_____	_____	_____	_____
735	Contractual Services - Testing	_____	_____	_____	_____	_____	_____
736	Contractual Services - Other	_____	_____	_____	_____	_____	_____
741	Rental of Building/Real Property	_____	46,849	_____	_____	_____	_____
742	Rental of Equipment	_____	237	_____	_____	_____	_____
750	Transportation Expenses	_____	3,337	_____	_____	_____	_____
756	Insurance - Vehicle	_____	654	_____	_____	_____	_____
757	Insurance - General Liability	_____	753	_____	_____	_____	_____
758	Insurance - Workman's Comp.	_____	_____	_____	_____	_____	_____
759	Insurance - Other	_____	_____	_____	_____	_____	_____
760	Advertising Expense	_____	_____	_____	_____	_____	_____
766	Regulatory Commission Expenses - Amortization of Rate Case Expense	_____	_____	_____	_____	_____	_____
767	Regulatory Commission Exp.-Other	_____	_____	_____	_____	_____	_____
770	Bad Debt Expense	_____	_____	_____	_____	_____	_____
775	Miscellaneous Expenses	_____	5,228	_____	_____	_____	_____
Total Wastewater Utility Expenses		\$ 0	\$ 129,511	\$ 0	\$ 0	\$ 0	\$ 0

UTILITY NAME:

Tymber Creek Utilities, Incorporated**YEAR OF REPORT**

December 31, 2020

SYSTEM NAME / COUNTY :

Volusia**CALCULATION OF THE WASTEWATER SYSTEM METER EQUIVALENTS**

WATER METER SIZE (a)	TYPE OF WATER METER (b)	EQUIVALENT FACTOR (c)	NUMBER OF WATER METERS (d)	TOTAL NUMBER OF METER EQUIVALENTS (c x d) (e)
All Residential		1.0		0
5/8"	Displacement	1.0	418	418
3/4"	Displacement	1.5		0
1"	Displacement	2.5	2	5
1 1/2"	Displacement or Turbine	5.0		0
2"	Displacement, Compound or Turbine	8.0		0
3"	Displacement	15.0		0
3"	Compound	16.0		0
3"	Turbine	17.5		0
4"	Displacement or Compound	25.0		0
4"	Turbine	30.0		0
6"	Displacement or Compound	50.0		0
6"	Turbine	62.5		0
8"	Compound	80.0		0
8"	Turbine	90.0		0
10"	Compound	115.0		0
10"	Turbine	145.0		0
12"	Turbine	215.0		0
Total Wastewater System Meter Equivalents				423

**CALCULATION OF THE WASTEWATER SYSTEM  
EQUIVALENT RESIDENTIAL CONNECTIONS**

Provide a calculation used to determine the value of one wastewater equivalent residential connection (ERC).

Use one of the following methods:

(a) If actual flow data are available from the preceding 12 months, divide the total annual single family residence (SFR) gallons sold by the average number of single family residence customers for the same period and divide the result by 365 days.

(b) If no historical flow data are available, use:

$$\text{ERC} = (\text{Total SFR gallons treated (Omit 000)} / 365 \text{ days} / 280 \text{ gallons per day})$$

For wastewater only utilities:

Subtract all general use and other non residential customer gallons from the total gallons treated.

Divide the remainder (SFR customers) by 365 days to reveal single family residence customer gallons per day.

**NOTE:** Total gallons treated includes both treated and purchased treatment.

ERC Calculation:

UTILITY NAME: Timber Creek Utilities, Incorporated

YEAR OF REPORT

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

### WASTEWATER TREATMENT PLANT INFORMATION

Provide a separate sheet for each wastewater treatment facility

Permitted Capacity	0.131		
Basis of Permit Capacity (1)	Design		
Manufacturer	Wetherell Treatment Services		
Type (2)	Extended Air		
Hydraulic Capacity	0.075		
Average Daily Flow	0.066		
Total Gallons of Wastewater Treated	24.453		
Method of Effluent Disposal	Perc Ponds		

(1) Basis of permitted capacity as stated on the Florida DEP WWTP Operating Permit  
(i.e. average annual daily flow, etc.)

(2) Contact stabilization, advanced treatment, etc.

UTILITY NAME: Timber Creek Utilities, Incorporated

YEAR OF REPORT

December 31, 2020

SYSTEM NAME / COUNTY : Volusia

### OTHER WASTEWATER SYSTEM INFORMATION

Furnish information below for each system. A separate page should be supplied where necessary.

1. Present number of ERCs\* now being served 423
2. Maximum number of ERCs\* which can be served 500
3. Present system connection capacity (in ERCs\*) using existing lines 500
4. Future connection capacity (in ERCs\*) upon service area buildout 500
5. Estimated annual increase in ERCs\* 0
6. Describe any plans and estimated completion dates for any enlargements or improvements of this system  
NONE
7. If the utility uses reuse as a means of effluent disposal, attach a list of the reuse end users and the amount of reuse provided to each, if known. N/A
8. If the utility does not engage in reuse, has a reuse feasibility study been completed? Yes  
If so, when? Nov-92
9. Has the utility been required by the DEP or water management district to implement reuse? No  
If so, what are the utility's plans to comply with this requirement? N/A
10. When did the company last file a capacity analysis report with the DEP? N/A - Certified no-growth
11. If the present system does not meet the requirements of DEP rules:
  - a. Attach a description of the plant upgrade necessary to meet the DEP rules.
  - b. Have these plans been approved by DEP? N/A
  - c. When will construction begin? N/A
  - d. Attach plans for funding the required upgrading.
  - e. Is this system under any Consent Order with DEP? No
12. Department of Environmental Protection ID # FLA 011193

\* An ERC is determined based on the calculation on S-11.

S-13

GROUP \_\_\_\_\_

SYSTEM \_\_\_\_\_



**RECONCILIATION OF REVENUE  
TO REGULATORY ASSESSMENT  
FEE REVENUE**

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**Reconciliation of Revenue to  
Regulatory Assessment Fee Revenue  
Water Operations  
Class A & B**

**Company: Tymber Creek Utilities, Inc.  
For the Year Ended December 31, 2020**

(a)	(b)	(c)	(d)
Accounts	Gross Water Revenues Per Sch. S-9	Gross Water Revenues Per RAF Return	Difference (b) - (c)
Gross Revenue:			
Unmetered Water Revenues (460)			
Total Metered Sales (461.1 - 461.5)	\$ 142,743.00	\$ 142,743.00	\$ -
Total Fire Protection Revenue (462.1 - 462.2)			
Other Sales to Public Authorities (464)			
Sales to Irrigation Customers (465)			
Sales for Resale (466)			
Interdepartmental Sales (467)			
Total Other Water Revenues (469 - 474)	\$ 1,890.00	\$ 1,890.00	\$ -
<b>Total Wastewater Operating Revenue</b>	<b>\$ 144,633.00</b>	<b>\$ 144,633.00</b>	<b>\$ -</b>
<b>LESS: Expense for Purchased Water from FPSC-Regulated Utility</b>			
<b>Net Water Operating Revenues</b>	<b>\$ 144,633.00</b>	<b>\$ 144,633.00</b>	<b>\$ -</b>

Explanations:

Instructions:

For the current year, reconcile the gross water revenues reported on Schedule W-9 with the gross water revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

**Reconciliation of Revenue to  
Regulatory Assessment Fee Revenue  
Wastewater Operations  
Class A & B**

**Company: Tymber Creek Utilities, Inc.  
For the Year Ended December 31, 2020**

(a)	(b)	(c)	(d)
Accounts	Gross Wastewater Revenues Per Sch. S-9	Gross Wastewater Revenues Per RAF Return	Difference (b) - (c)
Gross Revenue:			
Total Flat-Rate Revenues (521.1 - 521.6)			
Total Measured Revenues (522.1 - 522.5)	\$ 347,000.00	\$ 352,673.00	\$ (5,673.00)
Revenues from Public Authorities (523)			
Revenues from Other Systems (524)			
Interdepartmental Revenues (525)			
Total Other Wastewater Revenues (530 - 536)	\$ 5,672.00	\$ -	\$ 5,672.00
Reclaimed Water Sales (540.1 - 544)			
<b>Total Wastewater Operating Revenue</b>	\$ 352,672.00	\$ 352,673.00	\$ (1.00)
<b>LESS: Expense for Purchased Wastewater from FPSC-Regulated Utility</b>			
<b>Net Wastewater Operating Revenues</b>	\$ 352,672.00	\$ 352,673.00	\$ (1.00)

**Explanations:**

Minor difference due to miscellaneous revenue being posted to incorrect account on Regulatory Assessment Fee Return. Other difference caused by rounding.

**Instructions:**

For the current year, reconcile the gross wastewater revenues reported on Schedule S-9 with the gross wastewater revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

# ATTACHMENT D

System Notes, Facts, & Rates

## Current Operations

J. Stan Shirah	President	Owner & Operations Manager
Mr. Wetherell	Contract Operator	Volusia Co.
Tara Hollis	Financial Consultant	Willdan Financial Services Orlando, FL
Gerry Hartman	Engineering, Permitting, Value/Appraisal	Hartman Consultants, LLC Winter Park, FL

## Facility Facts

### WATER - 420 Customer Meters

- Wholesale Master Meter from Ormond Beach
- Only Distribution Pipes, Hydrants, Services & Meters
- No Capacity Limitations Except for SJRWMD Water Restrictions When Applied
- Water Purchased in 2018 – 23,096,000 gallons
- Water Metered Sales 2018 – 21,166,000 gallons
- Non-Metered Water Use – 1,930,000 gallons  
approx. 8% uses at Lift Stations, WWTP, Hydrant Flashing, and Water Loss



## Facility Facts (Cont.)

### WASTEWATER – 420 Customers

- Rates Applied to Water Meter Reading
- Collection System Cleaned
- Collection System Inflow/Infiltration Fixed
- WWTP & Perc. Pond Capacity – 131,000 gpd AADF
- Existing Flow – 66,000 gpd AADF – Built-out
- Three (3) Lift Stations
- Plenty of Capacity
- Extended Air Process – Easiest to Operate
- Good Condition

## Financial Facts

Total Utility Plant in Service	\$1,314,476
Total Revenues (2018 Rates)	460,186
Operating Expenses (Current Total)	378,247
12/31/2018 FPSC Rate Base Facilities w/o Land, Net Investment	406,558
2018 Real Estate Appraisal Plant Site – 8.8 acres Lift Stations & Other Fee Simple – 0.2 ac. Easements - Numerous	510,000
FPSC Approved Private-Owner Return on Rate Base	9.27%

## Target Amount For Purchase

1)	Rate Base	\$406,558
2)	Land Value	<u>\$510,000</u>
	Subtotal	\$916,558
	of Rate Base & Land Plus 20% Results in	\$1,099,870

## Ten Buckets of Successful Transactions

<u>Bucket Description</u>		<u>Amount</u>
1)	Purchase Price	\$1,099,870
2)	Transactional Cost (Legal Accounting)	30,000
3)	Bank Financing Cost	32,000
4)	Transitional Cost	10,000
5)	Working Capital (45 Days)	57,000 —
6)	Capital Improvement Fund	41,000 —
7)	Renewal and Replacement Fund	55,000 —
8)	Insurance/Surety	8,000
9)	Permit Transfers, etc.	12,000
10)	Rate Stabilization/Contingency	<u>46,000</u>
<b>Total Funding</b>		<b>\$1,390,870</b>

## Monthly Principal and Interest Payments

1)	\$1,390,000 Rounded	
2)	30-Years Term	
3)	4.5% Interest	
4)	\$7,115/Month (Approximate \$85,400/Year)	
5)	Revenues (2018)	\$460,186
6)	Expenses (2018)	(\$378,247)
	Purchase Property Credit (No Land or Other Leases)	29,362 – (W: 2,633 + WW: 26,729)
	Officers Credit	21,188 - (W: 5,297 + WW: 15,891)
7)	Net Revenues	132,489
8)	Management Fees in Expenses	\$30,740

## Conclusions

- Sale Pays for Itself
- No Rate Increase Needed
- Available Management Fees - \$30,700/Yr. (Rounded)
- Available Net Revenues - \$47,000/Yr. (Rounded)  
(after Expenses & P&I)  
(\$132,489 - \$85,400)

**TYMBER CREEK UTILITES, INC**  
**RESIDENTIAL AND COMMERCIAL RATES**  
**09/29/2020**

**WATER RESIDENTIAL RATES:**

METER SIZE:	NEW RATE:	OLD RATE:	INCREASE:
BASE RATE 5/8X3/4"	\$9.91	\$9.84	\$0.07
BASE RATE 1"	\$24.78	\$24.60	\$0.18
GALLONS CHARGES (PER1000)			
0-6000 GAL	\$3.88	\$3.85	\$0.03
6001-10,000	\$4.44	\$4.41	\$0.03
10,001 & UP	\$6.59	\$6.54	\$0.05

**RESIDENTIAL SEWER RATES:**

METER SIZE:	NEW RATE:	OLD RATE:	INCREASE:
BASE RATE (ALL METERS)	\$34.40	\$33.43	\$0.97
GALLONS PER 1,000	\$9.20	\$8.94	\$0.26
SEWER CAPS @ 8,000			

**COMMERCIAL WATER RATES:**

METER SIZE:	NEW RATE:	OLD RATE:	INCREASE:
BASE RATE 5/8X3/4"	\$9.91	\$9.84	\$0.07
1"	\$24.78	\$24.60	\$0.18
GALLONS PER 1,000	\$4.19	\$4.16	\$0.03

**COMMERCIAL SEWER RATES:**

METER SIZE:	NEW RATE:	OLD RATE:	INCREASE:
BASE RATE 5/8x3/4"	\$34.40	\$33.43	\$0.97
1"	\$86.00	\$83.58	\$2.42
GALLONS PER 1,000	\$11.05	\$10.74	\$0.31

**COMMERICAL SEWER RATES DO NOT STOP @ 8,000 GALS LIKE RESIDENTIALS DO**



RESIDENTIAL SERVICE

RATE SCHEDULE (RS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For water 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 Sizes</u>	<u>Base Facility Charge</u>
5/8" x 3/4"	\$ 9.91
3/4"	\$ 14.87
1"	\$ 24.78
1 1/2"	\$ 49.55
2"	\$ 79.28
3"	\$ 158.56
4"	\$ 247.75
6"	\$ 495.50

Charge per 1,000 gallons	
0 - 6,000 gallons	\$ 3.88
6,001 - 10,000 gallons	\$ 4.44
Over 10,000 gallons	\$ 6.59

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 water service, service may then be discontinued.

EFFECTIVE DATE - August 25, 2020

TYPE OF FILING - 2020 Price Index and Pass-Through

WS-2020-0063

J. STANLEY SHIRAH  
ISSUING OFFICER

MANAGER  
TITLE

RESIDENTIAL SERVICE

RATE SCHEDULE (RS)

<u>AVAILABILITY</u> -	Available throughout the area served by the Company.		
<u>APPLICABILITY</u> -	For wastewater service for all purposes in private residences and individually metered apartment units.		
<u>LIMITATIONS</u> -	Subject to all of the Rules and Regulations of this Tariff and General Rules and Regulations of the Commission.		
<u>BILLING PERIOD</u> -	Monthly		
<u>RATE</u> -	<u>Meter Sizes</u>	<u>Base Facility Charge</u>	
	All Meter Sizes	\$	34.40
	Charge per 1,000 gallons 8,000 gallon cap	\$	9.20
<u>MINIMUM CHARGE</u> -	Base Facility Charge		
<u>TERMS OF PAYMENT</u> -	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 - August 25, 2020

TYPE OF FILING - 2020 Price Index and Pass-Through

WS-2020-0063

J. STANLEY SHIRAH  
ISSUING OFFICER

MANAGER  
TITLE

GENERAL SERVICE

RATE SCHEDULE (GS)

AVAILABILITY - Available throughout the area served by the Company.

APPLICABILITY - For water 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"	\$ 9.91
3/4"	\$ 14.87
1"	\$ 24.78
1 1/2"	\$ 49.55
2"	\$ 79.28
3"	\$ 158.56
4"	\$ 247.75
6"	\$ 495.50

Charge per 1,000 gallons \$ 4.19

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 water service, service may then be discontinued.

EFFECTIVE DATE - August 25, 2020

TYPE OF FILING - 2020 Price Index and Pass-Through

WS-2020-0063

J. STANLEY SHIRAH  
ISSUING OFFICER

MANAGER  
TITLE

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"	\$ 34.40
3/4"	\$ 51.60
1"	\$ 86.00
1 1/2"	\$ 172.00
2"	\$ 275.20
3"	\$ 550.40
4"	\$ 860.00
6"	\$ 1,720.00
Charge per 1,000 gallons	\$ 11.05

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 - August 25, 2020

TYPE OF FILING - 2020 Price Index and Pass-Through

WS-2020-0063

J. STANLEY SHIRAH  
ISSUING OFFICER

MANAGER  
TITLE

# ATTACHMENT E

## Asset Lists

# Hartman Consultants, LLC

[www.hartmanconsultant.com](http://www.hartmanconsultant.com)

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## Schedule 1.1 Asset Listing

### **Water**

419 – Residential

1 – Commercial Customers

418 – 5/8" x 3/4" Meters

2 – 1" Meter

Master Meter from Ormond Beach City Account #314070-290620

Approx. 1,500 LF 8"

Approx. 4,800 LF 6"

Approx. 3,200 LF 4"

Approx. 500 LF 2"

Approx. 140 LF 1.5"

Approx. 10,000 LF 1"

### **Wastewater**

420 Services

33 Manholes (Est)

3 Lift Stations

Approx. 9,800 LF 8" Gravity

Approx. 4,700 LF 4" Force Main

Approx. 14,000 LF 4" Gravity

131,000 gpd AADF EA Secondary WWTP

131,000 gpd AADF Percolation Ponds

### **Land**

All necessary easements for use/access.

2 Fee Simple Parcels – Tax ID's

- 4125-00-00-00-0182
- 4125-04-00-1420

## **Tymber Creek Utilities, Inc.**

### **Fire Hydrant Location by Streets Numbered on maps**

1. **Willow Bend Lane – 2 Hydrants**
  1. In Front of Lot 121 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:
  2. In Front of Lot 101 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:
2. **Hollowbranch Crossing – 1 Hydrant**
  1. In Front of Lot 128 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:
3. **Mill Spring Place – 1 Hydrant**
  1. In Front of Lot 131 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:
4. **Sandy Spring Road – 2 Hydrants**
  1. Next to Lot 70 with a 6" Gate Valve  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:
  2. End of Street, West of Lot 80 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:



**5. Shallow Creek Ford – 1 Hydrant**

1. In Front of Lot 34 with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

**6. Tymber Run – 9 Hydrants**

1. On Tymber Run and Bridge near Sandy Springs Road with 6 Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

2. On Tymber Run near Cambridge Ct. with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

3. Near Inglewood Ct. set back in woods about 20' from road with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

4. On Tymber Run near Ashford Ct. with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

5. On Tymber Run near Woodstock Ct. with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

6. On Tymber Run near Amberwood Ct. with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

7. On Tymber Run near Muddy Creek Lane with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

8. On Tymber Run facing Hickory Hill Place with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

9. On Tymber Run near Gatewood Ct. with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

7. **Groover Creek Crossing – 2 Hydrants**

1. On Groover Creek Crossing 2<sup>nd</sup> lot from Tymber Run, South side of street with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

2. Northwest corner of Groover Creek Crossing and Lost Creek with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

8. **Lost Creek – 2 Hydrants**

1. In Front of retention area with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

2. In Front of Lot 13 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

9. **Muddy Creek Lane – 3 Hydrants**

1. In Front of Lot 385 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

2. In Front of Lot 390 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

3. End of Street in Front of Lot 395 with 6" Gate Valve.  
Hydrant Flushed: Yes\_\_\_No\_\_\_  
Comment:

**10. Black Oak Lane – 1 Hydrant**

1. End of Street in Front of Lot 412 with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

**11. Sand Creek Lane – 2 Hydrants**

1. In Front of Lot 419 with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

2. In Front of Lot 425 with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

**12. Bent Creek Lane – 1 Hydrant**

1. In Front of Lot 342 with 6" Gate Valve.

Hydrant Flushed: Yes\_\_\_No\_\_\_

Comment:

Total of 27 Fire Hydrants

## Suggested Preventive Maintenance Log (continued)

Exercise ALL Mainline Valves - Annually Jan & Feb (add sheets as needed)

Valve ID #	Valve Location (address or intersection) ** Blue Mark or Arrow on Pavement**	Last Service (Date)	Service (Date)	Service (Date)	Service (Date)	Service (Date)
1	3' off Sandy Springs Rd by Street sign **	11/16	11/17	11/18		
2	2' off Shallow Crk Ford by street sign **	11/16	11/17	11/18		
3	Off Shallow Crk Ford east side of road facing Woodfield Ct. **	11/16	11/17	11/18		
4	5' off Shallow Crk Ford east side of road facing Ravenwood Ct. **	11/16	11/17	11/18		
5	15' off Shallow Crk Ford in front of 33 Baywater **	11/16	11/17	11/18		
6	16 ' Northeast of manhole on Shallow Creek Ford top of Windrift Ct.	11/16	11/17	11/18		
7	2' off Shallow Creek Ford by Snaresbrook Ct.**	11/16	11/17	11/18		
8	1' off Shallow Creek Ford by Crestwood Ct.**	11/16	11/17	11/18		
9	Northeast corner off of Tymber Run	11/16	11/17	11/18		
10	5' from valve #9 Tymber Run and Shallow Creek Ford **	11/16	11/17	11/18		
11	Valve visible in pavement on Hollow Branch Crossing	11/16	11/17	11/18		
12	Edge of pavement by stop sign (Hollow Branch Crossing & Willow Bend)	11/16	11/17	11/18		
13	2' off edge of pavement west side by Phase 1 pool **	11/16	11/17	11/18		
14	3' off edge of pavement side on Hollow Branch Crossing **	11/16	11/17	11/18		
15	3' off edge of pavement top of Ridgefield Place **	11/16	11/17	11/18		
16	10' off Hollow Branch Crossing, 20' off concrete header in front of 130 Millspring Ct., North West Corner	11/16	11/17	11/18		
17	2' off Tymber Run and Hollow Branch Crossing **	11/16	11/17	11/18		
18	East of pavement off Tymber Run **	11/16	11/17	11/18		
19	East of pavement 5' from valve #18 going toward bridge	11/16	11/17	11/18		
20	2' off edge of pavement by street sign top of Waterford Place	11/16	11/17	11/18		
21	1' off edge of pavement top of Baymeadow Ct. **	11/16	11/17	11/18		
22	5' off edge of pavement in yard top of Creeksbridge Ct. **	11/16	11/17	11/18		



Valve ID #	Valve Location (address or intersection) ** Blue Mark or Arrow on Pavement**	Last Service (Date)	Service (Date)	Service (Date)	Service (Date)	Service (Date)
22A	2' off edge of pavement top of Raintree Ct. **	11/16	11/17	11/18		
22B	2' off edge of pavement top of Becontree Ct. **	11/16	11/17	11/18		
23	3' off Groover Creek Crossing, 16' off concrete header, valve is visible	11/16	11/17	11/18		
24	Visible in pavement on Bent Creek	11/16	11/17	11/18		
25	Visible in pavement west bound (Tymber Run & Oak Fern)	11/16	11/17	11/18		
26	2' off Tymber Run in meter box Northwest Corner **	11/16	11/17	11/18		
27	2' off Tymber Run in meter box northeast corner **	11/16	11/17	11/18		
28	Visible in pavement on Gatewood Court	11/16	11/17	11/18		
29	16' off Tymber Run east side of fire hydrant top of Hickory Hill Place	11/16	11/17	11/18		
30	2' off Tymber Run and Millview Ct.	11/16	11/17	11/18		
31	3' off Tymber Run southeast corner top of Applegate Landing **	11/16	11/17	11/18		
32	1' off Tymber Run facing Muddy Creek Lane	11/16	11/17	11/18		
32A	2' from pavement top of Windwood Place	11/16	11/17	11/18		
33	61' from valve #32 Tymber Run and Bayridge Ct. **	11/16	11/17	11/18		
34	2' off Tymber Run top of Black Oak Ln **	11/16	11/17	11/18		
35	Visible in pavement on Amberwood Ct.	11/16	11/17	11/18		
36	2' off Tymber Run top of Sandcreek Ln **	11/16	11/17	11/18		
36A	2' from Road top of Chimney Hill Place **	11/16	11/17	11/18		
36B	2' from road top of Wheatfield Place **	11/16	11/17	11/18		
37	Southeast corner of Woodstock Ct.	11/16	11/17	11/18		
38	6' off edge of road top of Ashford Ct. **	11/16	11/17	11/18		
39	10' off Tymber Run top of Coventry Ct. **	11/16	11/17	11/18		
40	2' off Northeast corner of Tymber Run top of Briarfield Ct.	11/16	11/17	11/18		
41	1' off edge of pavement top of Inglewood **	11/16	11/17	11/18		
42	Visible in pavement off Tymber Run top of Summerhill Ct. **	11/16	11/17	11/18		
43	1' off edge of pavement top of Bay Pines Ct. **	11/16	11/17	11/18		
44	2' off Tymber Run by stop sign top of Fox Glen Ct.	11/16	11/17	11/18		
45	3' off Tymber Run top of Summerhaze Ct. **	11/16	11/17	11/18		



<b>Valve ID #</b>	<b>Valve Location</b> (address or intersection) ** Blue Mark or Arrow on Pavement**	<b>Last Service</b> (Date)	<b>Service</b> (Date)	<b>Service</b> (Date)	<b>Service</b> (Date)	<b>Service</b> (Date)
46	2' off Tymber Run in pavement top of Suntree Ct.	11/16	11/17	11/18		
47	2' off Cambridge Ct. in meter box top of Cambridge Ct.	11/16	11/17	11/18		
48	3' off Tymber Run top of Cloverdale Ct.	11/16	11/17	11/18		
49	West side of Groover Creek Crossing and Lost Creek **	11/16	11/17	11/18		



**Exercise ALL Fire Hydrants - Annually Nov & Dec (add sheets as needed)**

[illegible]



### Exercise ALL Fire Hydrants - Annually Nov & Dec (add sheets as needed)

[illegible]

# ATTACHMENT F

Local Vendor Recommendations

- a. Recommendations for local vendors
  - i. O&M Companies: Wetherell Treatment Systems
  - ii. Labs or Testing Companies: Pace Analytical Services, LLC
  - iii. Sludge Haulers: American Bio-Clean RMF
  - iv. General Contractors
  - v. Well Drillers
  - vi. Electricians