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*tcrabb@radeylaw.com*

July 5, 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. 20220062-WS - Application for transfer of water and wastewater facilities of C.F.A.T. H2O, Inc., water Certificate No. 552-W, and wastewater Certificate No. 481-S to CSWR-Florida Utility Operating Company, LLC, in Marion 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: Charles J. Rehwinkel, Esq., Office of Public Counsel ([rehwinkel.charles@leg.state.fl.us](mailto:rehwinkel.charles@leg.state.fl.us))  
Steven Baird, Esq., Office of Public Counsel ([baird.steven@leg.state.fl.us](mailto:baird.steven@leg.state.fl.us))  
Charles deMenzes ([charlie@altfo.com](mailto:charlie@altfo.com))

# **EXHIBIT 1**

# WASTEWATER FACILITY REPORT

CFAT H2O, INC.

## LOCATION:

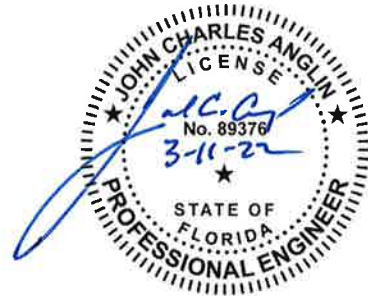
MARION COUNTY, FLORIDA

## PREPARED FOR:

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

## DATE:

March 2022

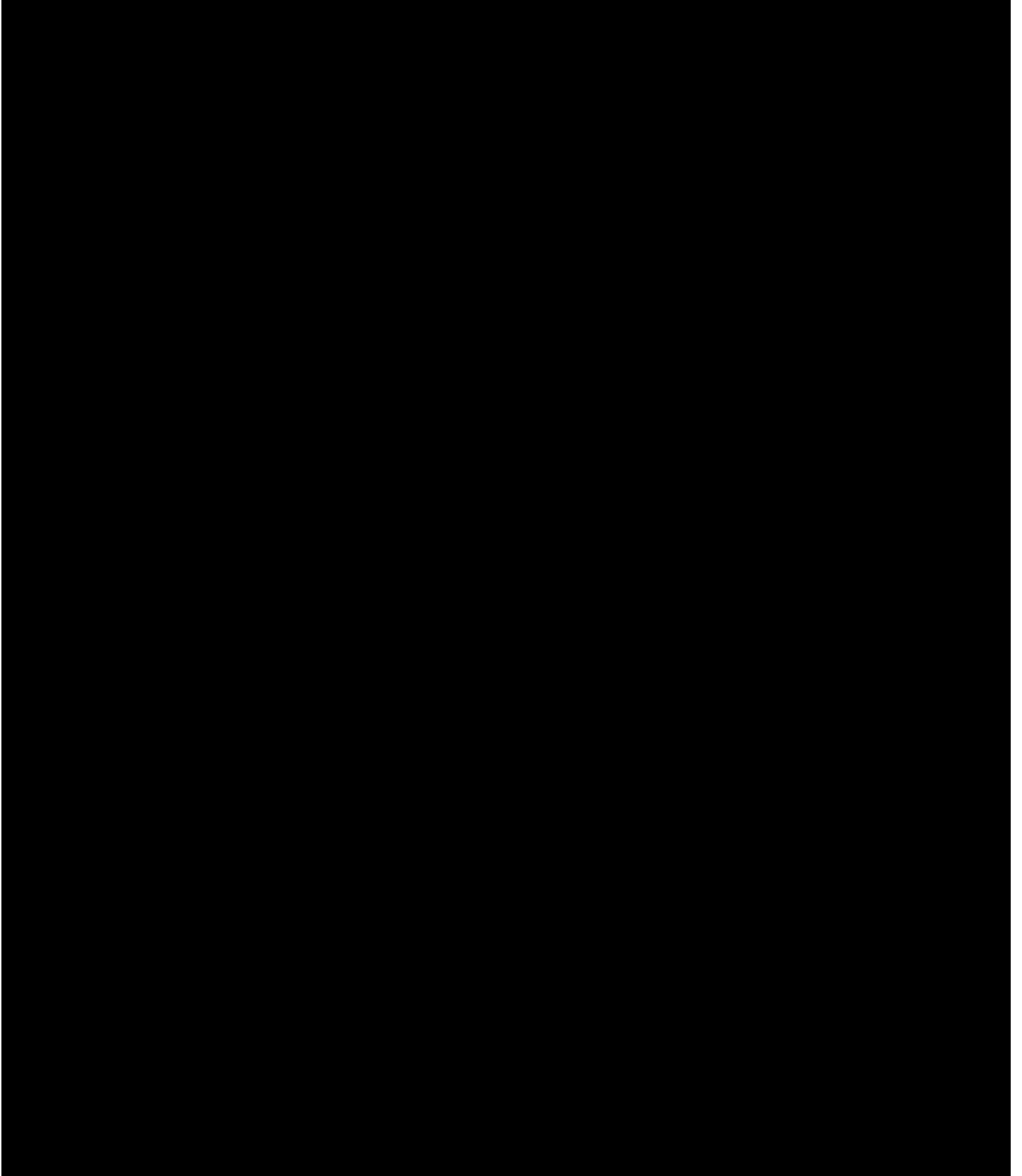


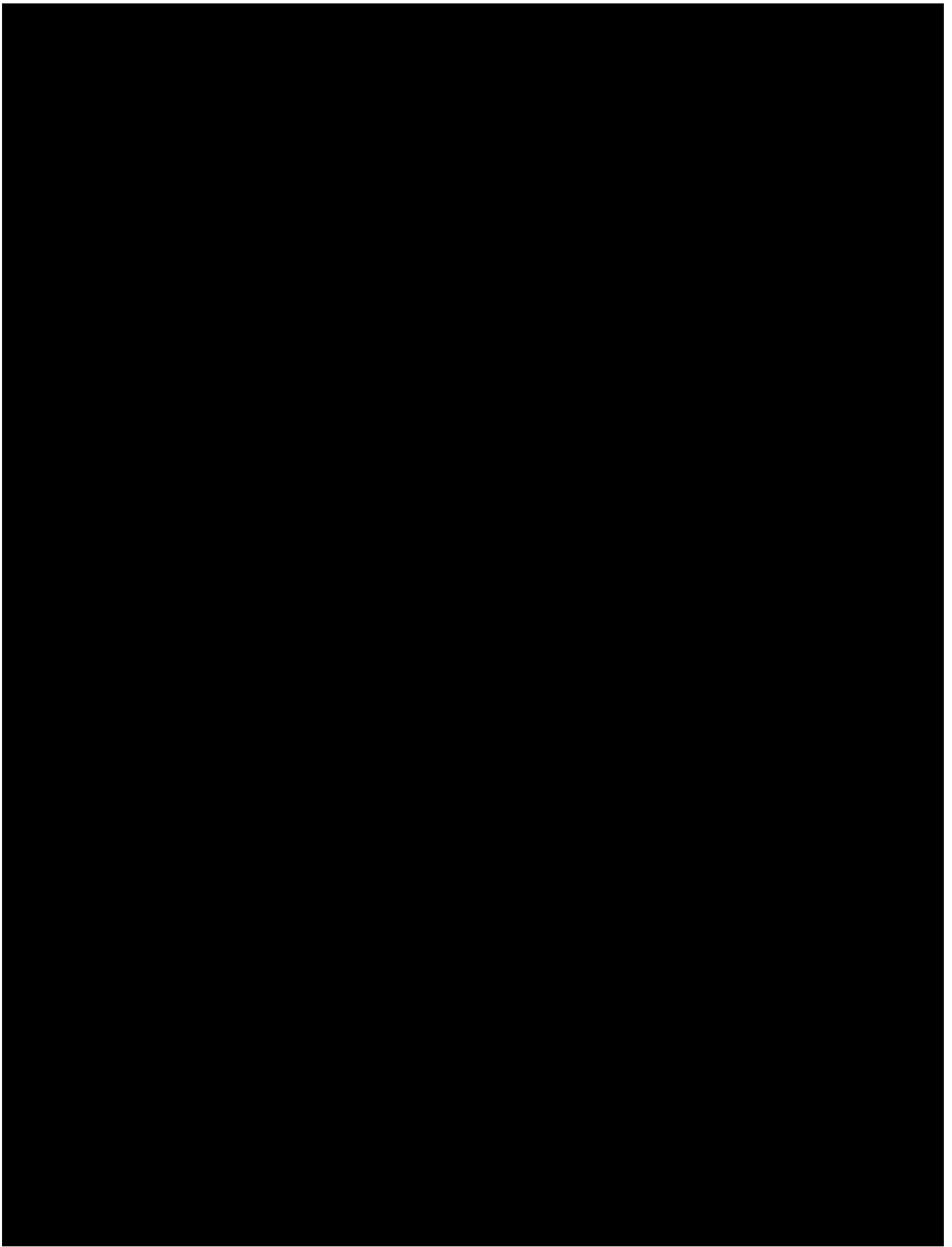
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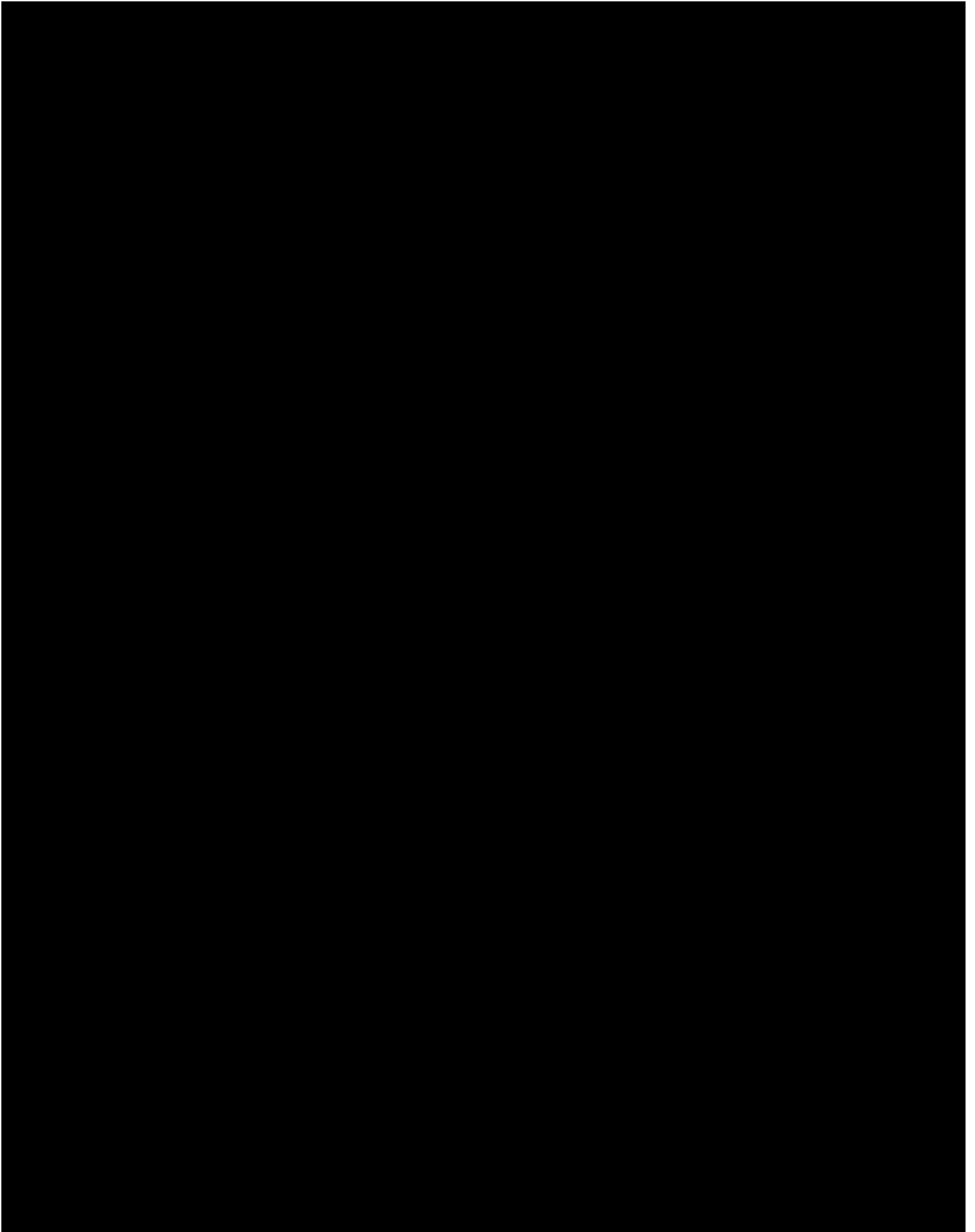
**Clearpoint**  
CONSULTING ENGINEERS, P.A.

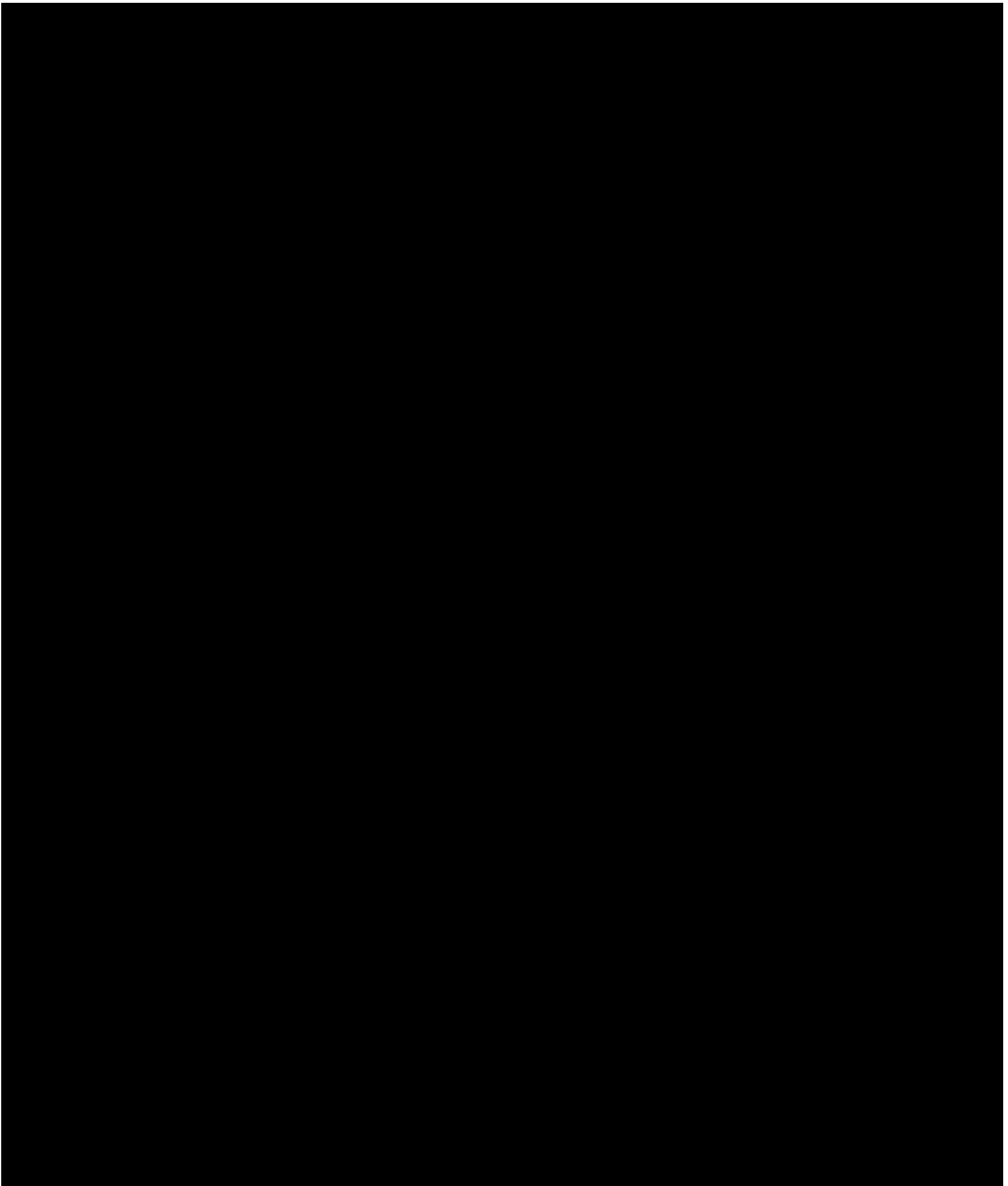
6652 U.S. Highway 98  
Hattiesburg, MS 39402

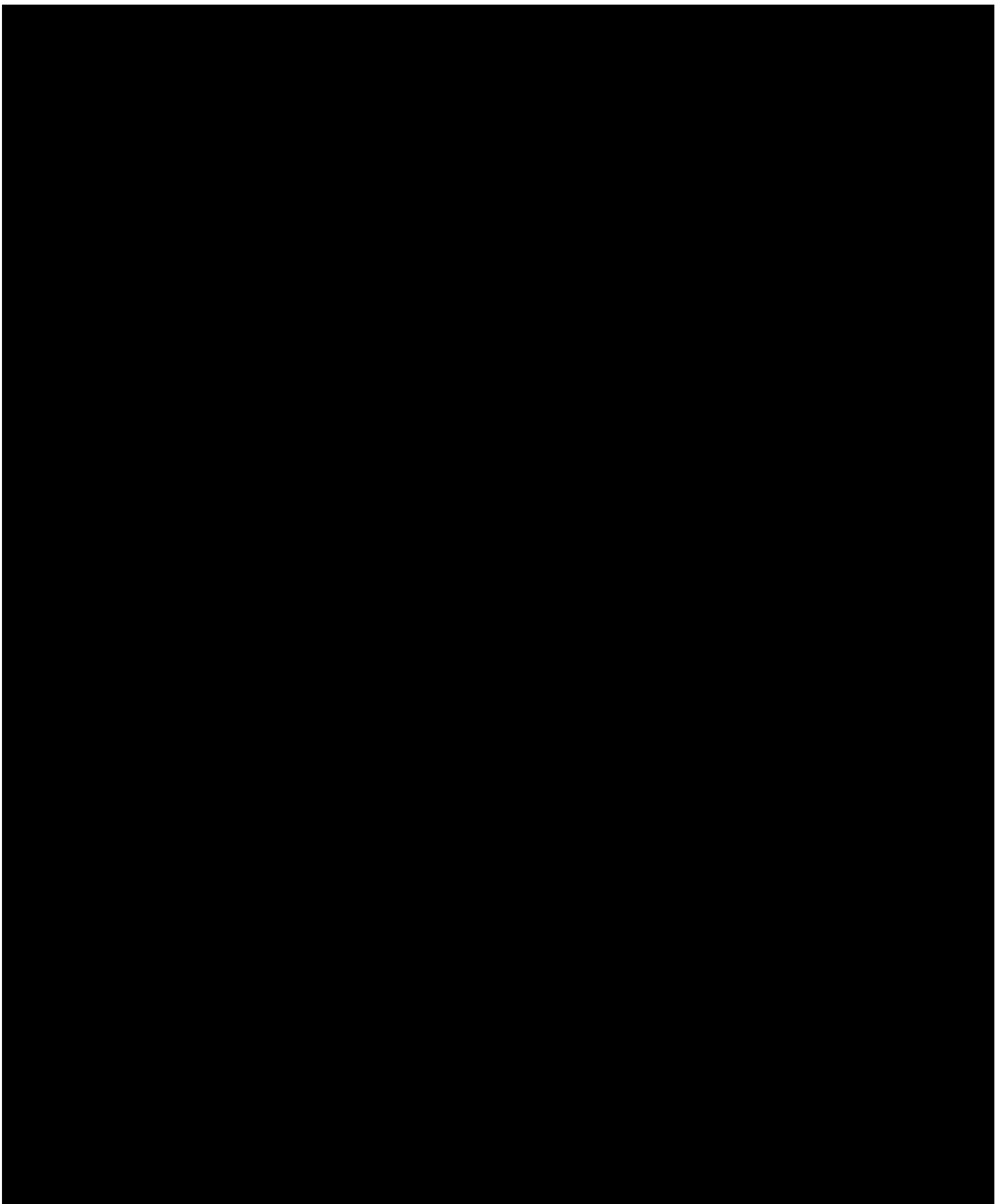
ENGINEERING MEMO  
LANDFAIR WWTF  
MARION COUNTY, FL  
MARCH 2022



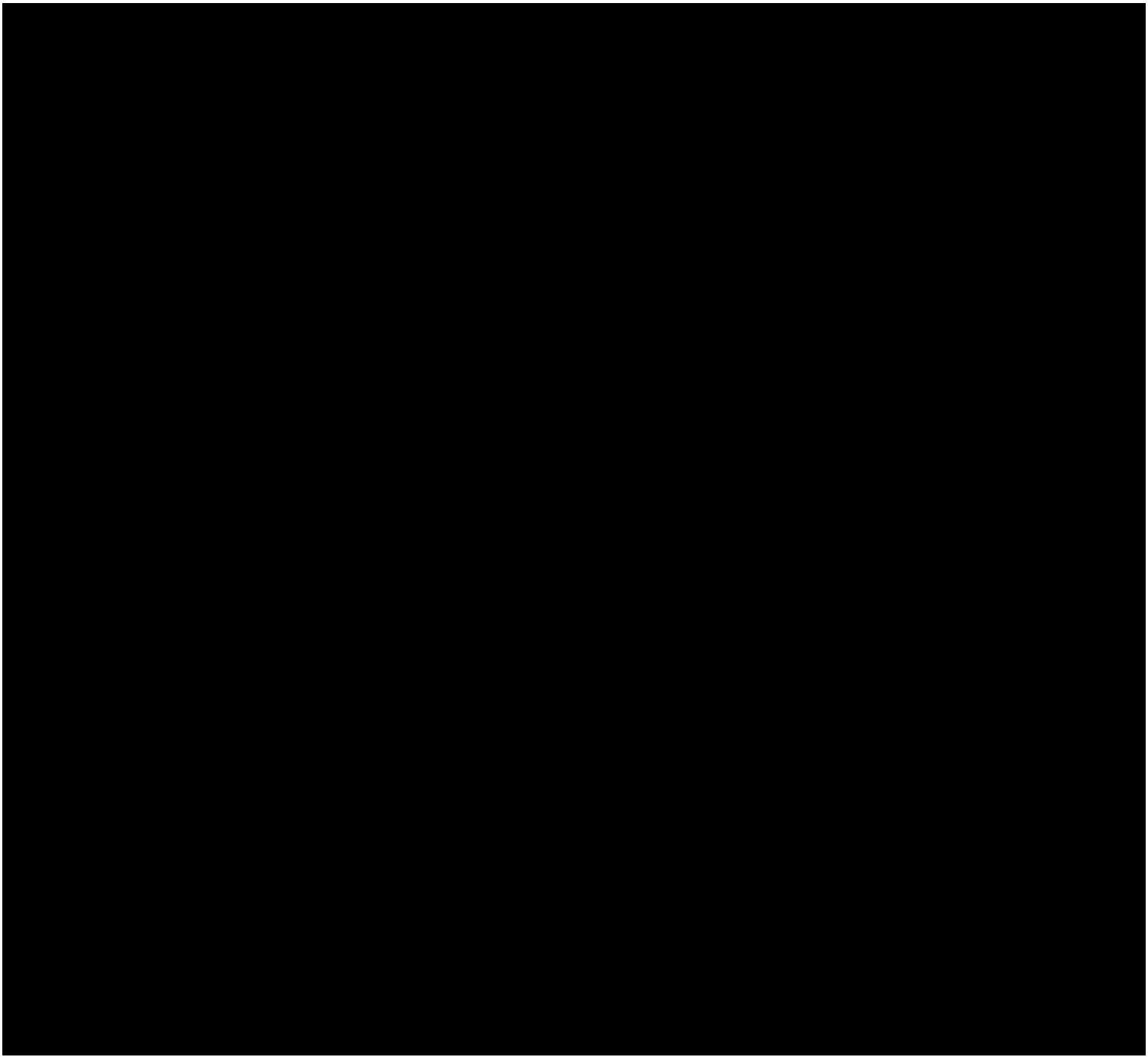


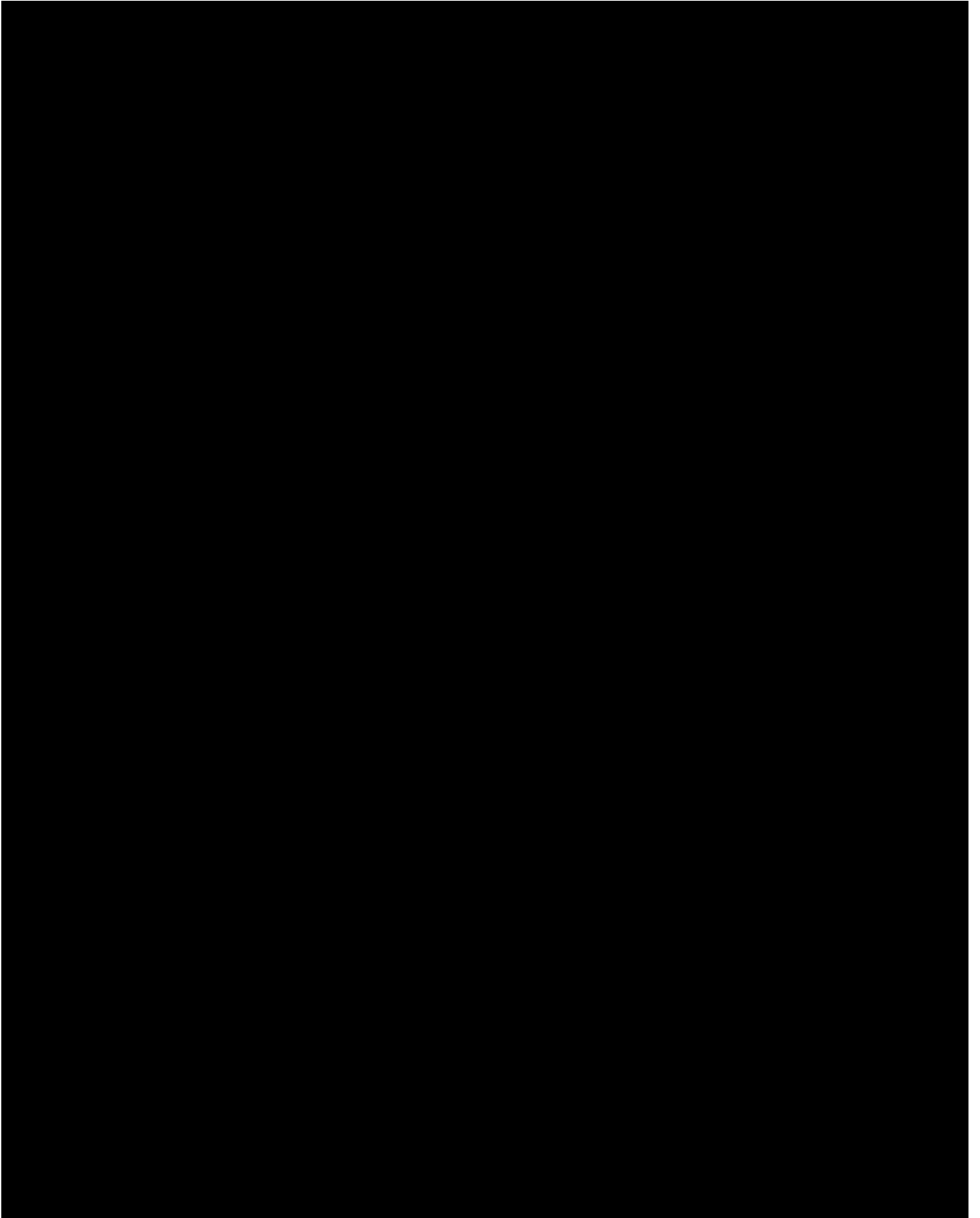


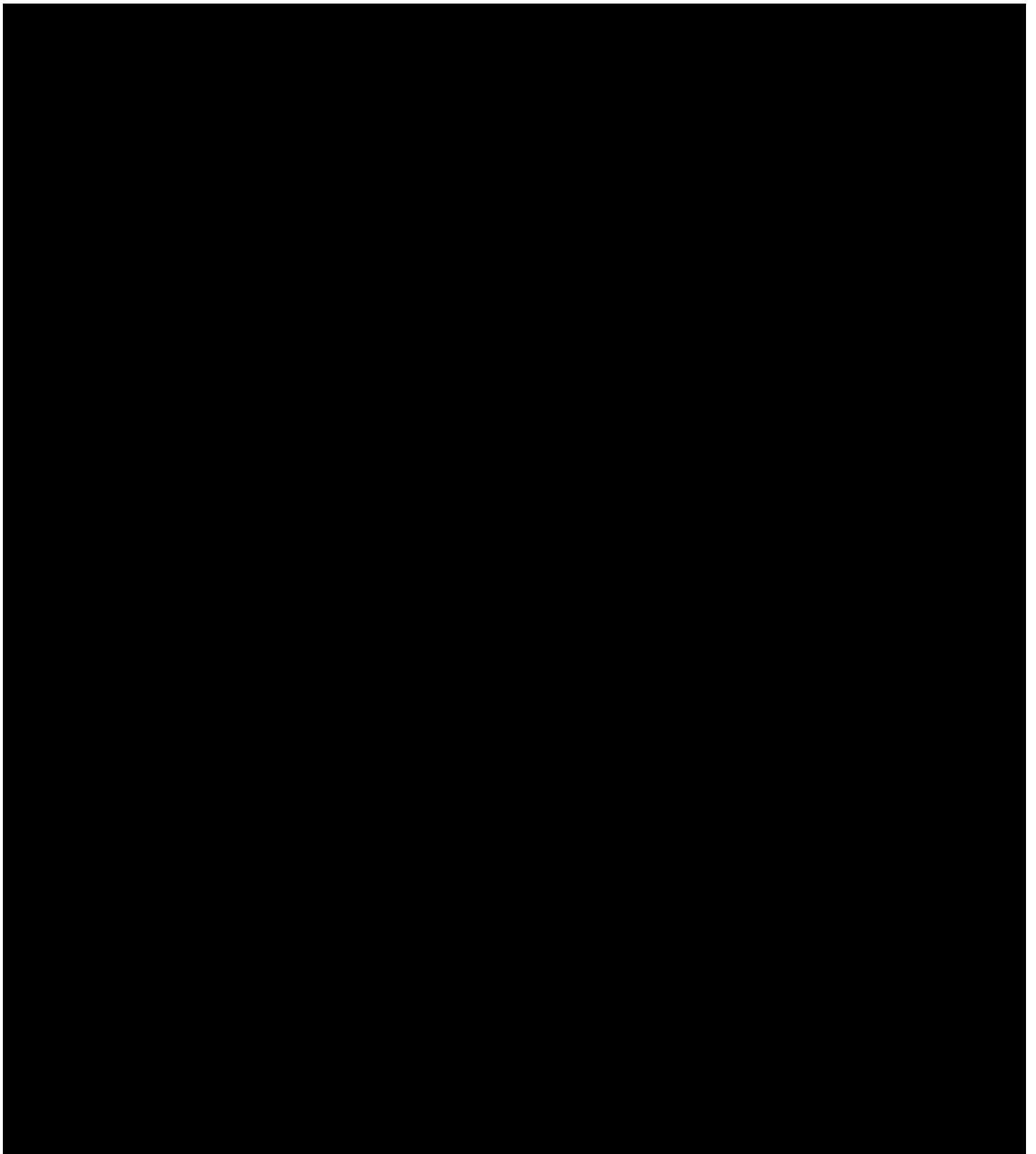


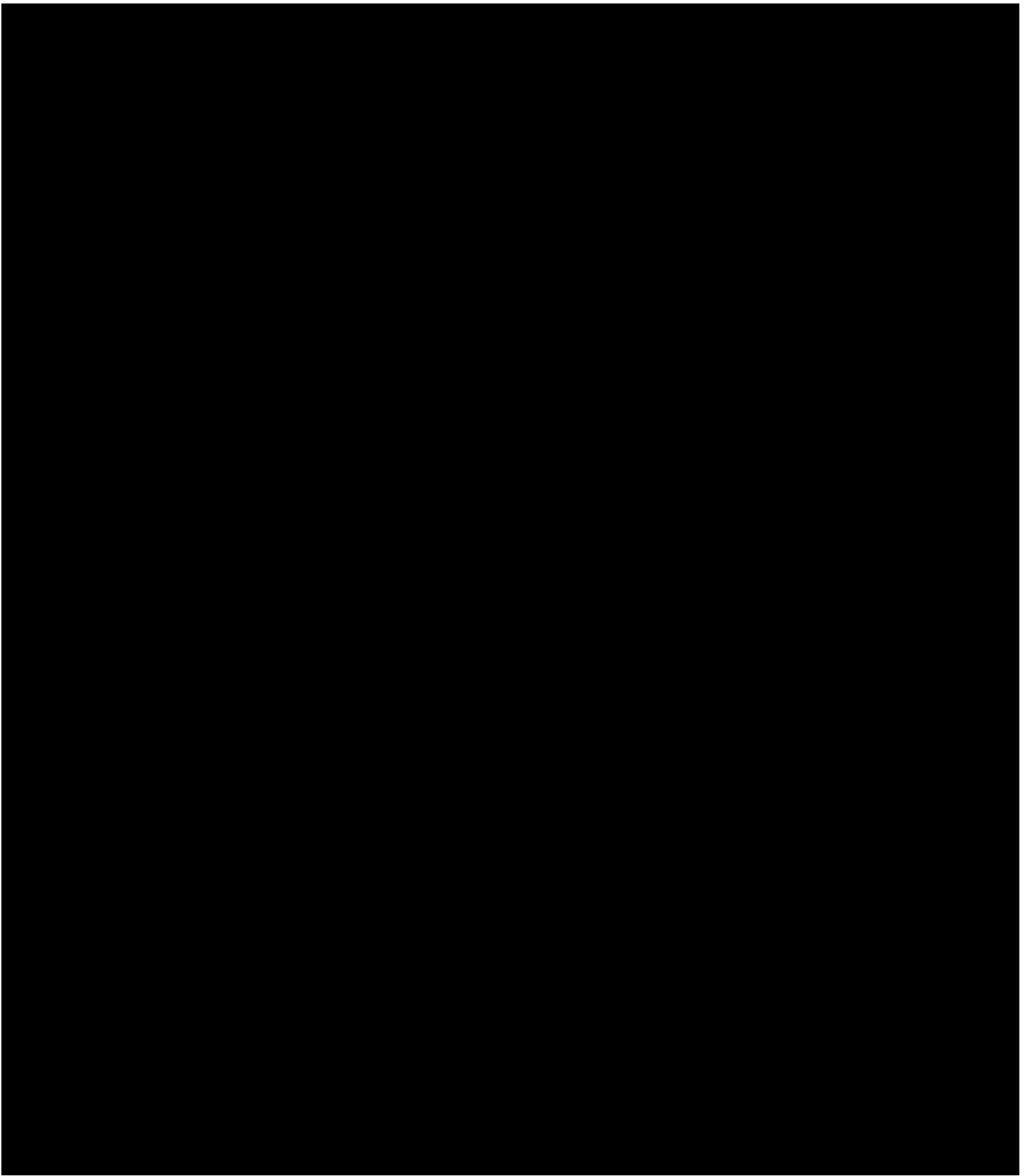


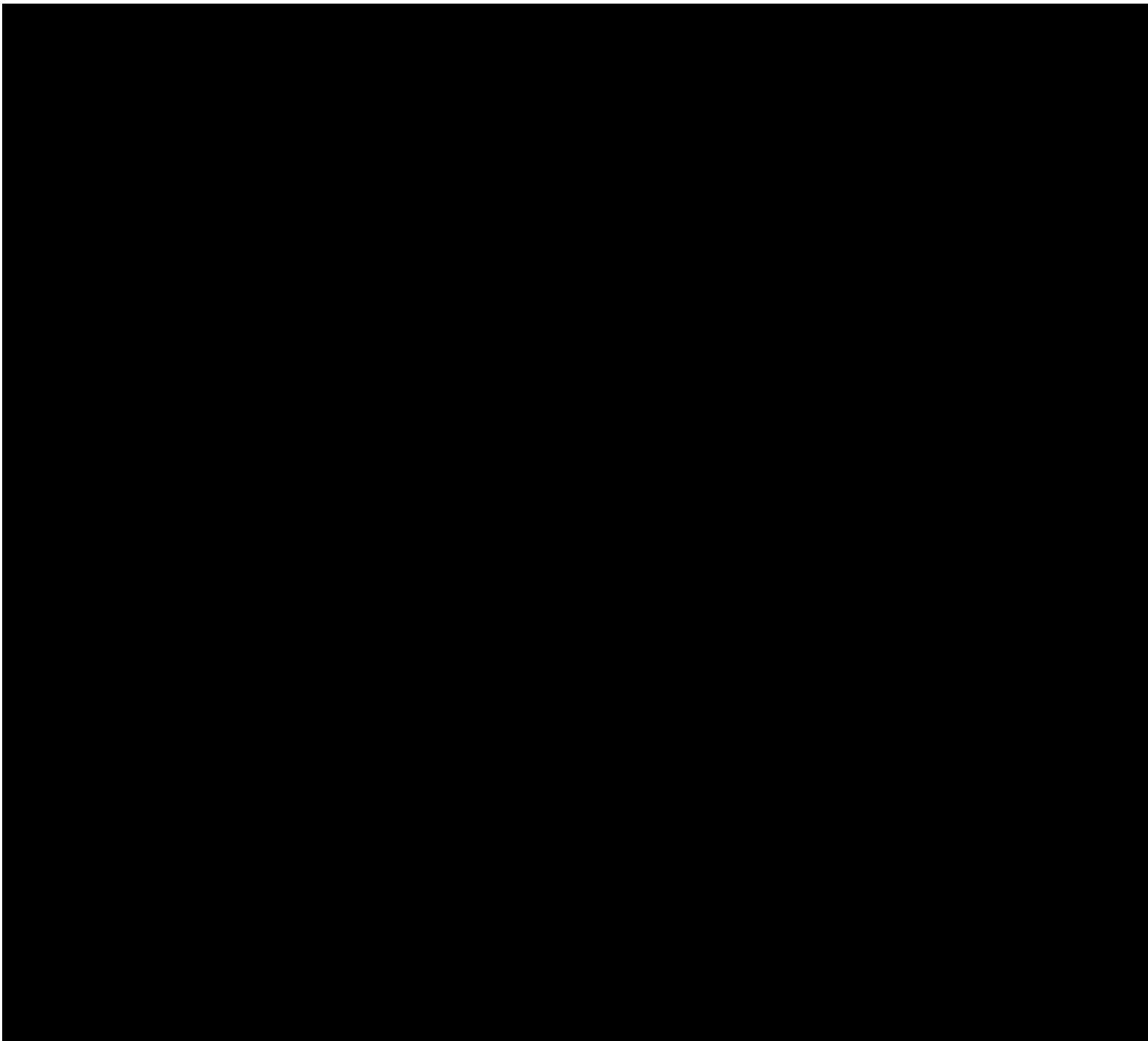












**SUPPORTING DOCUMENTATION TO  
WASTEWATER ENGINEERING MEMO**

CFAT H2O, INC.

**LOCATION:**

MARION 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**

Attachment A – Wastewater Permit Information

Attachment B – Wastewater Inspection Report - 2021

Attachment C – Compliance Historical Documentation

Attachment D – WWTF Photographs

Attachment E – Local Vendor Recommendation

**ATTACHMENT A**  
Wastewater Permit Information





# Florida Department of Environmental Protection

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

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

Ryan E. Matthews  
Interim Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

**PERMITTEE:**  
CFAT H20, Inc.

**RESPONSIBLE OFFICIAL:**  
Charles DeMenzes  
PO Box 5220  
Ocala, Florida 34478-5220  
(352) 622-4949

**PERMIT NUMBER:** FLA010722  
**FILE NUMBER:** FLA010722-007-DW3P  
**EFFECTIVE DATE:** April 10, 2017  
**EXPIRATION DATE:** April 9, 2022

### FACILITY:

Landfair WWTF  
Intersection Of Ne 28th Pl & Ne 23rd Ct  
Ocala, FL 34470  
Marion County  
Latitude: 29°16' 4.99" N Longitude: 82°6' 16.48" 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. This permit is accompanied by an Administrative Order, pursuant to paragraphs 403.088(2)(e) and (f), Florida Statutes. Compliance with Administrative Order, AO-SS-16-019, is a specific requirement of this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

### WASTEWATER TREATMENT:

An existing 0.099 mgd annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

### REUSE OR DISPOSAL:

**Land Application R-001:** An existing 0.099 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of a lined holding pond and two (2) rapid infiltration basins with a total wetted area of 2.3 acres located approximately at latitude 29°16' 5" N, longitude 82°6' 16" 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: CFAT H2O Inc  
 FACILITY: Landfair WWTF

PERMIT NUMBER: FLA010722  
 EXPIRATION DATE: April 9, 2022

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

**A. Reuse and Land Application Systems**

1. **Interim:** During the period beginning on the effective date and lasting through October 26, 2020, the permittee is authorized to use the Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and report as required by Condition I.B.7.:

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirements	
			Limit	Statistical Basis	Frequency of Monitoring	Sample Type
Flow (To RIBs)	MGD	Max Max	0.099 Report	Annual Average Monthly Average	5 Days/Week	Recording Flow Meter with Totalizer
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab
Coliform, Fecal	#/100mL	Max Max Max	200 800 200	Annual Average Single Sample Monthly Geometric Mean	Monthly	Grab
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Annually	Grab
Nitrogen, Total (Interim)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab

PERMITTEE: CFAT H2O Inc  
 FACILITY: Landfair WWTF

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2. **Final:** During the period beginning on October 27, 2020 and lasting through the expiration date of this permit, the permittee shall be limited to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below as Permit Condition I.B.7.:

Parameter	Units	Max/Min	Reclaimed Water Limitations		Monitoring Requirement	
			Limit	Statistical Basis	Frequency of Monitoring	Sample Type
Flow (To RIBs)	MGD	Max Max	0.099 Report	Annual Average Monthly Average	5 Days/Week	Recording Flow Meter with Totalizer
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Monthly	Grab
Coliform, Fecal	#/100m L	Max Max Max	200 800 200	Annual Average Single Sample Monthly Geometric Mean	Monthly	Grab
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Annually	Grab
Nitrogen, Total ( <b>Final</b> )	mg/L	Max Max	<b>3.0</b> Report	<b>Annual Average</b> Monthly Average	Monthly	Grab
Phosphorus, Total (as P)	mg/L	Max Max	Report Report	Annual Average Monthly Average	Monthly	Grab

PERMITTEE: CFAT H2O Inc  
FACILITY: Landfair WWTF

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3. 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	Effluent flow meter.
EFA-1	Chlorine contact chamber effluent.

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 effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report to be used to calculate the annual average. *[62-600.440(5)(b)]*
6. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. *[62-610.510][62-600.440(5)(c) and (6)(b)]*
7. 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]*
8. Total Nitrogen sampling in accordance with Rule 62-601.300(6) and in conjunction with Marion County's Springs Protection Ordinance (09-17). Additional sampling may be required by Marion County Department of Health. *[62-601.300(6)]*
9. 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: CFAT H2O Inc  
 FACILITY: Landfair WWTF

PERMIT NUMBER: FLA010722  
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**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 by the permittee as specified below and reported in accordance with condition I.B.7.:

Parameter	Units	Max/Min	Limitations		Monitoring Requirements	
			Limit	Statistical Basis	Frequency of Analysis	Sample Type
Flow (Total through facility)	MGD	Max Max Max	0.099 Report Report	Annual Average Monthly Average Quarterly Average	5 Days/Week	Recording Flow Meter with Totalizer
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	Annually	Grab
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	Annually	Grab

PERMITTEE: CFAT H2O Inc  
FACILITY: Landfair WWTF

PERMIT NUMBER: FLA010722  
EXPIRATION DATE: April 9, 2022

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	Effluent flow meter.
CAL-1	Calculated using FLW-1.
INF-1	Raw influent to aeration 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:
- a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

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

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

6. The permittee shall provide safe access points for obtaining representative samples which are required by this permit. [62-600.650(2)]
7. **Monitoring requirements under this permit are effective on June 1, 2017.** Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

PERMITTEE: CFAT H2O Inc  
 FACILITY: Landfair WWTF

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REPORT Type on DMR	Monitoring Period	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 electronic DMR forms, the permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at <http://www.fldepportal.com/go/>. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. **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).**

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

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

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

**Electronic submittal is preferred, by sending to [DEP\\_CD@dep.state.fl.us](mailto:DEP_CD@dep.state.fl.us).**

Florida Department of Environmental Protection  
 Central District  
 3319 Maguire Blvd  
 Suite 232  
 Orlando, Florida 32803-3767  
 Phone Number - (407)897-4100

[62-620.305]

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

## II. BIOSOLIDS MANAGEMENT REQUIREMENTS

- Biosolids generated by this facility may be transferred to 412 Biosolids 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)]
- 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)]
- 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.

PERMITTEE: CFAT H2O Inc  
 FACILITY: Landfair WWTF

PERMIT NUMBER: FLA010722  
 EXPIRATION DATE: April 9, 2022

			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	Calculated (based on volume and estimated percent solids)

5. The treatment, management, transportation, use, land application, or disposal of biosolids shall not cause a violation of the odor prohibition in subsection 62-296.320(2), F.A.C. [62-640.400(6)]
6. Storage of biosolids or other solids at this facility shall be in accordance with the Facility Biosolids Storage Plan. [62-640.300(4)]
7. Biosolids shall not be spilled from or tracked off the treatment facility site by the hauling vehicle. [62-640.400(9)]
8. Disposal of biosolids, septage, and "other solids" in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(b) & (c)]
9. The permittee shall not be held responsible for treatment and management violations that occur after its biosolids have been accepted by a permitted biosolids treatment facility with which the source facility has an agreement in accordance with subsection 62-640.880(1)(c), F.A.C., for further treatment, management, or disposal. [62-640.880(1)(b)]
10. The permittee shall keep hauling records to track the transport of biosolids between the facilities. The hauling records shall contain the following information:

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

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

[62-640.880(4)]



PERMITTEE: CFAT H2O Inc  
 FACILITY: Landfair WWTF

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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 well shall be sampled for Reuse System, R-001.

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Latitude	Longitude	Depth (Feet)	Aquifer Monitored	New or Existing
MWB-1	MEADOWLAND VILLAS/M-1	29°16' 12"	82°6' 9"	34	Floridan	Existing
MWC-2	MEADOWLAND VILLAS/M-2	29°16' 6"	82°6' 12"	53	Floridan	Existing
MWC-3	MEADOWLAND VILLAS/M-3	29°16' 7"	82°6' 12"	50	Floridan	Existing

MWC = Compliance; MWP = Piezometer

[62-520.600] [62-610.510]

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	Semi-Annually; twice per year
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Semi-Annually; twice per year
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Semi-Annually; twice per year
Chloride (as Cl)	250	mg/L	Grab	Semi-Annually; twice per year
Coliform, Fecal	4	#/100mL	Grab	Semi-Annually; twice per year
pH	6.5-8.5	s.u.	In Situ	Semi-Annually; twice per year
Turbidity	Report	NTU	Grab	Semi-Annually; twice per year

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

PERMITTEE: CFAT H2O Inc  
FACILITY: Landfair WWTF

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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 two (2) rapid infiltration basins with a total wetted area of 2.3 acres. shall be limited to 1.6 inches per day (as applied to the entire bottom area). *[62-610.523(3)]*
3. The two (2) rapid infiltration basins with a total wetted area of 2.3 acres. normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. *[62-610.523(4)]*
4. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. *[62-610.523(6) and (7)]*
5. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. *[62-610.514 and 62-610.414]*
6. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as abnormal events in accordance with Permit Condition IX.20. *[62-610.800(9)]*

#### V. OPERATION AND MAINTENANCE REQUIREMENTS

##### A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of one or more operators certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:  
  
A Class C or higher operator 1/2 hour/day for 5 days/week and one visit each weekend. The lead/chief operator must be a Class C operator, or higher.
2. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. *[62-699.311(1)]*

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**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)]

**VI. SCHEDULES**

1. In accordance with section 403.088(2)(e) and (f), Florida Statutes, a compliance schedule for this facility is contained in Administrative Order AO-SS-16-019 which is hereby incorporated by reference.
2. The following improvement actions shall be completed according to the following schedule:

Improvement Action	Completion Date
1. Register for and begin using the Departments EzDMR system, per condition I.B.7 of this permit	Within 6 months of effective date of permit

[62-620.320(6)]

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

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

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

## VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

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

## VIII. OTHER SPECIFIC CONDITIONS

1. The permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. *[62-610.800(10)]*
2. In the event that the 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)]*
3. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
  - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

*[62-604.130(5)]*

6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-610.518(1) and 62-600.400(2)(b)]*
7. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*

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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. 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)]*

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6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6)]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7)]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8)]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.*[62-620.610(9)]*
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10)]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11)]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12)]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13)]*
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)]*

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15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15)]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16)]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.*[62-620.610(17)]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246 and Chapters 62-160, 62-600, and 62-610, F.A.C., and 40 CFR 136, as appropriate.
  - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
  - b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
  - c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
  - d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
  - e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
  - f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.*[62-620.610(18)]*
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. *[62-620.610(19)]*
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.

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- 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.
- 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.



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- 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.
- 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



Wanda Parker-Garvin  
Environmental Manager  
Permitting and Waste Cleanup Program - Wastewater

PERMIT ISSUANCE DATE:  
April 5, 2017

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

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

PERMIT NUMBER: FLA010722-007  
FACILITY NAME: Landfair WWTF  
FACILITY LOCATION: Intersection of Ne 28th Pl & Ne 23rd Ct, Ocala, FL 34470  
Marion County  
NAME OF PERMITTEE: CFAT H2O Inc  
PERMIT WRITER: Wilmott Brown

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FLA010722-007-DW3P  
Application Submittal Date: October 20, 2016

b. Type of Facility

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

c. Facility Capacity

Existing Permitted Capacity:	0.099 mgd Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 mgd Annual Average Daily Flow
Proposed Total Permitted Capacity:	0.099 mgd Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 0.099 mgd annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of aeration, secondary clarification, chlorination, and aerobic digestion of biosolids.

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

**Land Application R-001:** An existing 0.099 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of a lined holding pond and two (2) rapid infiltration basins with a total wetted area of 2.3 acres, having a capacity of 0.099 MGD located approximately at latitude 29°16' 5" N, longitude 82°6' 16" W.

2. SUMMARY OF SURFACE WATER DISCHARGE

This facility does not discharge to surface waters.

### 3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

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

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (To RIBs)	MGD	Max	0.099	Annual Average	62-600.700(2)(b) & 62-610.810(5) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.420(3)(a)1. FAC
		Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(a)2. FAC
		Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(a)3. FAC
		Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(a)4. FAC
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	62-610.510 & 62-600.420(3)(b)1. FAC
		Max	30.0	Monthly Average	62-610.510 & 62-600.420(3)(b)2. FAC
		Max	45.0	Weekly Average	62-610.510 & 62-600.420(3)(b)3. FAC
		Max	60.0	Single Sample	62-610.510 & 62-600.420(3)(b)4. FAC
Coliform, Fecal	#/100mL	Max	200	Annual Average	62-610.510 & 62-600.440(5)(a)1. FAC
		Max	800	Single Sample	62-610.510 & 62-600.440(5)(a)4. FAC
		Max	200	Monthly Geometric Mean	62-610.510 & 62-600.440(5)(a)2. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
		Max	8.5	Single Sample	62-600.445 FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	62-610.510 & 62-600.440(5)(c) FAC
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	62-610.510(1) FAC Annual frequency: 62-600.650(3) FAC
Nitrogen, Total (Interim)	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC
Nitrogen, Total (Final)	mg/L	Max	3.0	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	62-600.650(3) FAC
		Max	Report	Monthly Average	62-600.650(3) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/Min	Limit	Statistical Basis	Rationale
Flow (Total through facility)	MGD	Max	0.099	Annual Average	62-600.700(2)(b) FAC
		Max	Report	Monthly Average	62-600.700(2)(b) FAC
		Max	Report	Quarterly Average	62-600.700(2)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC Annual frequency: 62-600.650(3) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-600.660(1) FAC Annual frequency: 62-600.650(3) 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 FLA010722-007-DW3P is effective on April 10, 2017, and expires on April 9, 2022.

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)]

5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be transferred to the 412 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 62-520, 532, 601, 610, and 620, F.A.C.

Parameters Arsenic, Cadmium, Chromium, Sulfate and 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.

7. PERMIT SCHEDULES

A schedule is included in the wastewater permit to enroll in the EzDMR system.

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

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

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

This permit is accompanied by AO-SS-16-019, effective 8/24/2016, which includes a schedule of compliance. The AO is hereby incorporated by reference. Reduce TN to 3.0 mg/L Annual Average.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

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

12. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Permit Issuance

April 4, 2017

13. CONTACT

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

Wilmott Brown  
Professional Engineer I  
[wilmott.brown@dep.state.fl.us](mailto:wilmott.brown@dep.state.fl.us)

3319 Maguire Blvd  
Suite 232  
Orlando, FL 32803-3767

Telephone No.: (407) 897-4100

**OPERATION PERMIT  
RENEWAL  
&  
SUBSTANTIAL MODIFICATION  
APPLICATION**

**FOR THE**

**LANDFAIR  
WASTEWATER TREATMENT FACILITY**

**MIDPOINT OF N.W. 77<sup>TH</sup> LOOP  
OCALA, MARION COUNTY, FLORIDA**

<b>Permit Number:</b>	<b>FLA010722</b>
<b>Permit File Number:</b>	<b>FLA010722-007-DW3P</b>
<b>Expiration Date:</b>	<b>April 9, 2022</b>

**Prepared by:**



**P.O. Box 42  
Ocala, Florida 34478**

**DECEMBER 2021**



# WASTEWATER FACILITY OR ACTIVITY PERMIT APPLICATION FORM 1 GENERAL INFORMATION

**I IDENTIFICATION NUMBER:**

Facility ID FLA010722

**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		X
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters?		X	
C. Does or will this facility (other than those describe in A. or B.) discharge process wastewater, or non-process wastewater regulated by effluent guidelines or new source performance standards, to surface waters?		X	
D. Does or will this facility (other than those described in A. or B.) discharge process wastewater to ground waters?		X	
E. Does or will this facility discharge non-process wastewater, not regulated by effluent guidelines or new source performance standards, to surface waters?		X	
F. Does or will this facility discharge non-process wastewater to ground waters?		X	
G. Does or will this facility discharge stormwater associated with industrial activity to surface waters?		X	
H. Is this facility a non-discharging/closed loop recycle system?		X	
I. Is this facility a public water system whose primary purpose is the production of potable water for public consumption and which discharges demineralization concentrate to surface water or groundwater?		X	

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

Landfair WWTF
---------------

Facility ID FLA010722

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

A. Name and Title (Last, first, & title)	B. Phone (area code & no.)
DeMenzes, Charles, President	(352) 622-4949

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

A. Street or P.O. Box: P.O. Box 5220		
B. City or Town: Ocala	State: FL	Zip Code: 34478-5220

**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: Intersection of N.E. 28th Place & N.E. 23rd Court		
B. County Name: Marion	C. County Code (if known): 42	
D. City or Town: Ocala	E. State: FL	F. Zip Code:

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

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

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

A. Name: Reuban Law, R&K Environmental, LLC		B. Is the name in VIII A. the owner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
C. Status of Operator: F = Federal; S = State; P = Private; O = Other; M = Public (other than F or S)	(code) P=Private	(specify) B-12483	D. Phone No.: (352) 661-8952
E. Street or P. O. Box: 4275 N.E. 137th Street			
F. City or Town: Anthony		G. State: FL	H. Zip Code: 32617



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

Yes  No

Facility ID FLA010722

**X EXISTING ENVIRONMENTAL PERMITS:**

A. NPDES Permit No.	B. UIC Permit No.	C. Other (specify)	D. Other (specify)
		FLA010722	

**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)

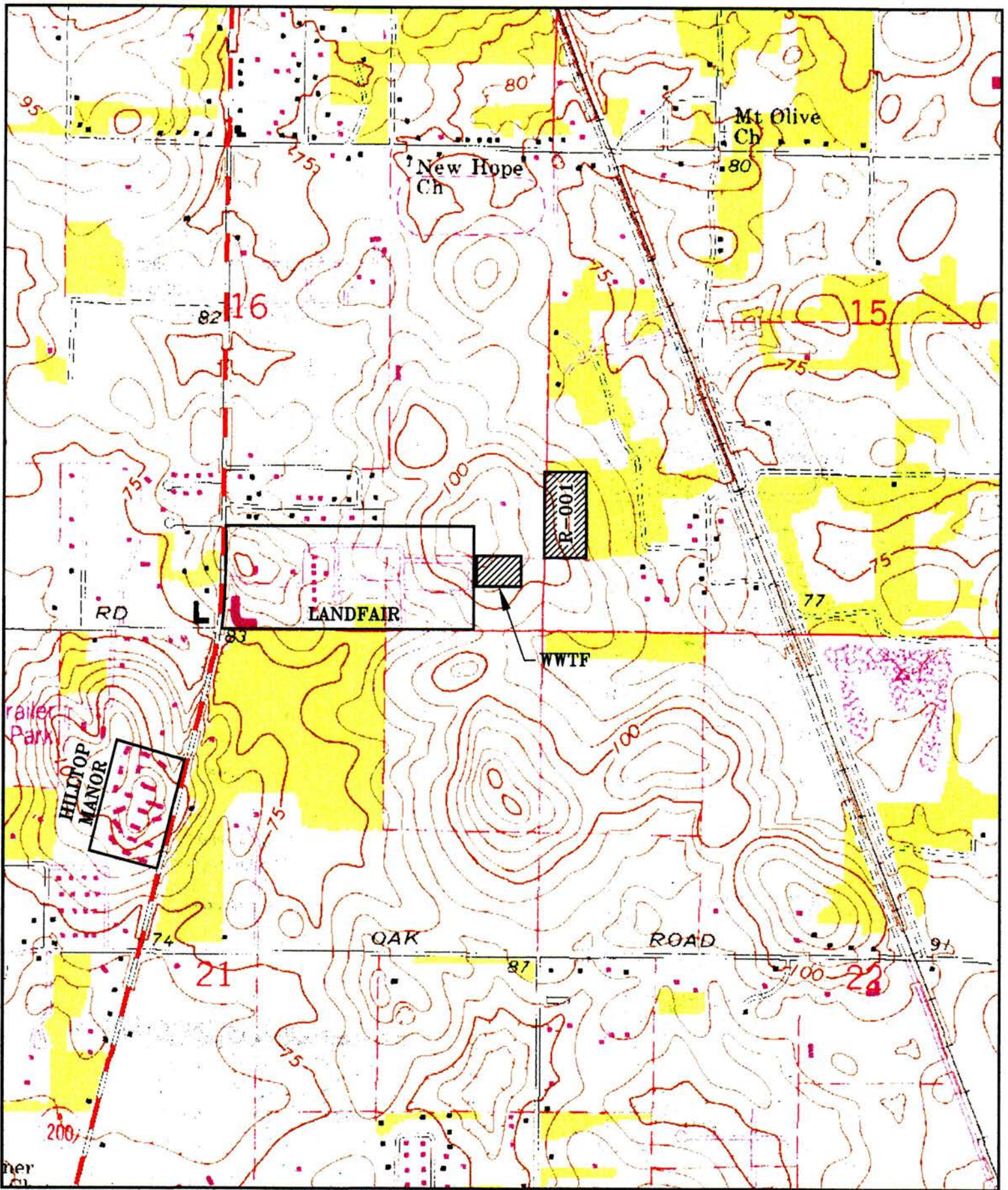
The wastewater treatment facility serves the Landfair Multi-Family Unit Subdivision (76 Duplexes & Community Center), Hilltop Manor Apartments (34 Apartment Units, Office, and Laundry Facilities), Hilltop Manor II Apartments (45 Apartments and Laundry Facilities), Penny Park Estates Mobile Home Park (MHP) (27 MH Lots), Villages of Ocala East MHP (105 MH Lots, Recreation Center, and Office), Villages of Ocala West MHP (65 MH lots), and a Marathon Convenience Store/Retail Gas Station located Ocala, Marion County, Florida.


**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.

Charles DeMenzes  
\_\_\_\_\_  
A. Name (type or print)  
  
President  
\_\_\_\_\_  
Official Title (type or print)

*Charles deMenzes*  
\_\_\_\_\_  
B. Signature  
  
12/28/2021  
\_\_\_\_\_  
C. Date Signed



  
 NORTH  
 1"=1,000'  
**LANDFAIR WWTF**  
**FLA010722**  
**USGS QUAD-OCALA EAST, FL**

**DNM ENGINEERING & ASSOCIATES, INC.**  


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 P.O. BOX 42  
 Ocala, Florida 34478  
 FAX (352) 629-2988  
 (352) 624-2068



# 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 Landfair WWTF

b. Facility Identification Number FLA010722

c. Location

Number and Street Midway along N.W. 77th Loop which intersects N.E. 22nd Terrace

City/State/Zip Code Ocala, Florida 33763

Telephone (352) 622-4949

Latitude 29 ° 16 ' 04.67 "N

Longitude 82 ° 06 ' 16.48 "W

Dates Coordinates Determined December 13, 2021

Method Used to Obtain Coordinates Google Earth

### d. Ownership Type

- Municipal
- County
- State
- Private

e. Contact

Name Charles DeMenzes  
 Title President  
 Telephone (352) 622-4949

f. Facility Mailing Address

Number and Street P.O. Box 5220  
 City/State/Zip Code Ocala, Florida 34478

g. Year Facility Began Operation Unknown

**4. Applicant or Authorized Representative**

Legal Name CFAT H2O, Incl  
 Number and Street P.O. Box 5220  
 City/State/Zip Code Ocala, Florida 34478-5220  
 Telephone (352) 622-4949  
 Contact Person Charles DeMenzes  
 Title President  
 Telephone Number (352) 622-4949

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 Landfair WWTF is a 0.099 MGD AADF Type III Extended Aeration Domestic Wastewater Treatment Facility with influent screening, flow equalization, aeration, secondary clarification, basic disinfection, and aerobic digestion of residuals. The treated reclaimed effluent is land applied to a dual cell rapid-rate infiltration basin with a total wetted bottom area of 100,188+/- sq. ft. (2.30+/- acres).

**6. Municipalities or Areas Served**

Name of Municipality or Area	Ownership	Population Served
Landfair WWTF	Private	Varies
Please refer to attached "Section 1(6) Attachment" for a description of the areas served.		
Total Population Served		Varies

**7. Reclaimed Water Reuse and Effluent Disposal**

Method of Reuse or Disposal	Number of Reuse or Disposal Points	Total Design Capacity (mgd)	Basis of Design Flow
Surface Waters - Excluding Ocean Outfalls and Wetlands (Rule 62-600.510, F.A.C.)			
Ocean Outfalls (Rule 62-600.520, F.A.C.)			
Wetlands (Rule 62-600.620, F.A.C.)			
Reuse of Reclaimed Water and Land Application (Rule 62-600.530, F.A.C.)	1	0.099	AADF
Ground Water Disposal by Underground Injection (Rule 62-600.540, F.A.C.)			
Other (Describe)			
Total	1	0.099	AADF

**8. Flows to Another Wastewater Facility**

a. Does the facility discharge or transport treated or untreated wastewater to another treatment facility?  
 Yes     No

b. If yes, describe the mean(s) by which the wastewater from the treatment facility is discharged or transported to the other treatment facility (e.g., collection/transmission system, reclaimed water distribution system)?

\_\_\_\_\_

If transport is by a party other than the applicant, provide the following:

Transporter name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Contact person: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone number: \_\_\_\_\_

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

Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Contact person: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone number: \_\_\_\_\_

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 6.16 (Assuming 2% solids) 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	1	6.16
Other (Describe)		
Total		6.16

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 Pipe & Tank d/b/a 412 Biosolids Processing Facility
Facility Identification Number	FLA356697-001-DW2S
Number and Street	4411 Southeast 53rd Avenue
City/State/Zip Code	Ocala, Florida 34480
County	Marion
Telephone	(352) 236-4281
Treatment Processes Used by Receiving Facility	Lime Stabilization & Land Application

**10. Permits and Applications**

a. Expiration Date of Current NPDES Permit \_\_\_\_\_

b. Expiration Date of Current DEP Permit April 9, 2022

c. Permit Number of Any Existing Environmental Permits

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

d. Orders and Notices

Type or Order or Notice	Issuing Agency	Date of Order or Notice
Notice or Violation		
Consent Order	DEP OGC File No.: 21-0360	May 11, 2021
Administrative Order	DEP AO-SS-16-019	August 24, 2016
Other (Describe.)		

## SECTION 2. TREATMENT FACILITY DESCRIPTION

### 1. Flow

#### a. Design Capacity

Current Design Capacity	0.099	mgd
Proposed Incremental Design Capacity	+	0.000
Proposed Total Design Capacity	=	0.099

#### 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	0.020	0.0273	0.0532	mgd
d. Maximum Daily Flow Rate	0.049	0.085	0.145	mgd

### 2. Design Treatment Levels

Parameter	Effluent Concentration	Units	Basis	Percent Removal
pH	6.0 - 8.5	Standard Units		
CBOD <sub>5</sub>	20/30/45/60	mg/L	Ann./Mo./Wk/Single	90
TSS	20/30/45/60	mg/L	Ann./Mo./Wk/ingle	90
TRC (Disinfection)	0.5	mg/L	Minimum, Single	
Fecal Coliform	200/800/200	100 mL Sample	Ann./Single/Mo. Mean	
Nitrogen, Total	Report	mg/L	Maximum	
Nitrogen, Nitrate, Total	12	mg/L	Maximum, Single	
Phosphorus, Total	Report	mg/L	Maximum	

### 3. Disinfection Level Provided

- Low-level
- Basic
- Intermediate
- High-level
- High-level Alternative

If the facility disinfects by chlorination and the discharge is to surface waters, is dechlorination provided?

- Yes  No



#### 4. Residuals Treatment

- a. Class of Residuals
- Class AA (Rule 62-640.850, F.A.C.)
  - Class A (Rule 62-640.600, F.A.C.)
  - Class B (Rule 62-640.600, F.A.C.)
  - Other

If other, describe

Residuals are stored on-site and agitated with air until transported and further treated at a permitted Residual Management Facility.

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

N/A

- c. Which vector attraction reduction option is met for the sewage sludge at your facility?

- Option 1 (Minimum 38 percent reduction in volatile solids)
- Option 2 (Anaerobic process, with bench-scale demonstration)
- Option 3 (Aerobic process, with bench-scale demonstration)
- Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
- Option 5 (Aerobic processes plus raised temperature)
- Option 6 (Raise pH to 12 and retain at 11.5)
- Option 7 (75 percent solids with no unstabilized solids)
- Option 8 (90 percent solids with unstabilized solids)
- Option 9 (Injection below land surface)
- Option 10 (Incorporation into soil within 6 hours)
- Option 11 (Covering active sewage sludge unit daily)
- None or unknown

- d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:

N/A

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 (Upon Completion of Expansion)
- Other Equivalent Reliability (Existing)

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

**1. Discharge Serial Number and Name**

Discharge Serial Number

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

**2. Discharge Location**

County

Street or Description

City or Town (if applicable)

Zip Code

Latitude

Longitude

Dates Coordinates Determined

Method Used to Obtain Coordinates

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ° ' "N  
\_\_\_\_\_ ° ' "W  
\_\_\_\_\_  
\_\_\_\_\_

**3. Design Capacity of the Outfall**

Current Design Capacity

Proposed Incremental Design Capacity

Proposed Total Design Capacity

\_\_\_\_\_ mgd  
+ \_\_\_\_\_ mgd  
= \_\_\_\_\_ mgd

**4. Basis of Design Flow**

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

If other, specify \_\_\_\_\_

**5. Basis for Effluent Limitations**

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

If other, specify \_\_\_\_\_

Date Effluent Limitations Established \_\_\_\_\_

**6. Description of Receiving Waters**

a. Name of Receiving Water \_\_\_\_\_

b. Type of Receiving Waterbody

- Fresh
- Brackish or Marine

c. Classification of Receiving Waterbody

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

Is the receiving waterbody contiguous to, or identified as, an Outstanding Florida Water (OFW) or an Outstanding National Resource Water?  Yes  No

If yes, name and locate on a USGS map. \_\_\_\_\_

Does this facility discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flow through) Indian Country?  Yes  No

d. Name of Watershed (if known) \_\_\_\_\_

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

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

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

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

acute \_\_\_\_\_ cfs                      chronic \_\_\_\_\_ cfs

g. Total hardness of receiving stream at critical low flow (if applicable) \_\_\_\_\_ mg/l of CaCO<sub>3</sub>

**7. Outfall Information**

Description of Outfall and Diffuser

Construction Materials \_\_\_\_\_  
Length From Shore \_\_\_\_\_ feet  
Diameter \_\_\_\_\_ inches  
Discharge Depth Below Water Surface \_\_\_\_\_ feet  
Receiving Water Bottom Depth Below Water Surface \_\_\_\_\_ feet  
Is the outfall equipped with a diffuser?  Yes  No

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

a. Will the discharge affect any SWIM plan waterbodies?  Yes  No

b. If yes, name the waterbody \_\_\_\_\_

c. Has the SWIM plan been approved by a water management district and the Department?  Yes  No

d. If yes, attach documentation that the proposed discharge is consistent with the SWIM plan.

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

Frequency  
Duration  
Volume  
Occurrence

\_\_\_\_\_ Times Per Year  
\_\_\_\_\_ Days  
\_\_\_\_\_ Thousand Gallons Per Incident

	Jan		May		Sep
	Feb		Jun		Oct
	Mar		Jul		Nov
	Apr		Aug		Dec

**10. Additional Information Required for Limited Wet Weather Discharges Permitted in Accordance with Rule 62-610.860, F.A.C.**

a. Downstream Waterbody

Name of nearest downstream lake, estuary, reservoir, OFW, or Class I water. Show location on a USGS map.

\_\_\_\_\_

Classification of Downstream Waterbody

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

Distance Downstream

\_\_\_\_\_ miles

Average Flow Velocity During Anticipated Periods of Discharge

\_\_\_\_\_ feet per second

Travel Time During Anticipated Periods of Discharge

\_\_\_\_\_ hours

b. Rainfall Information

Rainfall Gauging Station Location

\_\_\_\_\_

Period of Record Analyzed:

Beginning Year

\_\_\_\_\_

Ending Year

\_\_\_\_\_

Number of Years

\_\_\_\_\_

Average Annual Rainfall

\_\_\_\_\_ inches per year

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

Year Simulated \_\_\_\_\_

Annual Rainfall During Average Year \_\_\_\_\_ inches

Number of Days Limited Wet Weather Discharge is Used During Average Rainfall Year (N) \_\_\_\_\_ days

Percent of the Days of the Year that the Limited Wet Weather Discharge will Occur During Average Rainfall Year (P) \_\_\_\_\_ %

Note:

$$P = [ ( N ) / ( 365 ) ] \times 100\%$$

P cannot exceed 25% or be less than 1%.

- d. Reclaimed Water Quality (maximum monthly average)

CBOD<sub>5</sub> \_\_\_\_\_ 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 \_\_\_\_\_

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		
<b>CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.</b>							
CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND (CBOD)							
TOTAL SUSPENDED SOLDS (TSS)							
FECAL COLIFORM							

**13. Additional Application Information for Applicants with a Design Flow Greater Than or Equal to 0.1 mgd**

a. Effluent Testing Data

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	MDL/PQL
	Conc.	Units	Conc.	Units	Number of Samples		
<b>CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS.</b>							
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.

c. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?  Yes  No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Responsibilities of Contractor: \_\_\_\_\_



**14. Expanded Effluent Testing Data: 1.0 mgd and Pretreatment Treatment Works.**

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	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											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYL VINYL ETHER											
CHLOROFORM											
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE											
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLORO-ETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLORO-PROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											





## 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
	Landfair WWTF
	Rapid-Rate Infiltration Basins (2)

### 2. Reuse or Land Application System Location

County	Marion
City or Town (if applicable)	Ocala
Street or Description	Midpoint of N.W. 77th Loop
	Ocala, Florida
Latitude	29 ° 16 ' 09.63 "N
Longitude	82 ° 06 ' 10.51 "W
Dates Coordinates Determined	December 13, 2021
Method Used to Obtain Coordinates	Google Earth

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

Current Design Capacity	0.099 mgd
Proposed Incremental Design Capacity	+ 0.000 mgd
Proposed Total Design Capacity	= 0.099 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)
Landfair WWTF Rapid Rate Land Application System	2.3+/-	11.10	0.099
<b>Total</b>	<b>2.3+/-</b>	<b>11.10</b>	<b>0.099</b>

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

a. Areas Irrigated

- Residential lawns
- Golf courses
- Cemeteries
- Parks, playgrounds
- Landscape areas
- Highway medians, rights-of-way
- Edible crops
- Others

If other, specify   N/A  

b. Other Uses of Reclaimed Water

- Toilet flushing
- Fire protection
- Construction dust control
- Aesthetic purposes (decorative ponds, fountains, etc.)
- Others

If other, specify.   N/A

c. How many hours per day, seven days per week, is or will an operator be on-site at the wastewater treatment facility?

    N/A     hours per day

If the treatment facility is or will be staffed by an operator less than 24 hrs/day, describe the additional levels of reliability included within the treatment or reuse systems (See Rule 62-610.462, F.A.C.)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

d. For permit renewals, list the dates on which the operating protocols (as described in Rule 62-610.463, F.A.C.) were submitted to the Department and the date of the Department's approvals during the last five years.

Date Submitted	Date Approved
N/A	

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.)

N/A

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

(Not Applicable)

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

Underground Injection Well Facility Serial Number \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**2. Underground Injection Well Facility Location**

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

**3. Underground Injection Well Facility DEP Identification Number or Permit Application Number**

\_\_\_\_\_

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

Current Design Capacity \_\_\_\_\_ 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.

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

Continuous  Intermittent

## 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

R-001

- 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	December 31, 2021	
b. Final Plans and Specifications Complete	December 31, 2021	
c. Financing Complete	December 31, 2022	
d. Site Acquired	N/A	
e. Begin Construction	December 31, 2022	
f. End Construction	July 1, 2023	
g. Begin Reuse or Disposal	October 1, 2023	
h. Operational Level Attained	March 1, 2024	

### 3. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?

Yes  No

If so, describe briefly:

Permitting in the process



## SECTION 5. INDUSTRIAL WASTEWATER CONTRIBUTIONS

(Not Applicable)

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?

---

**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.

**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).

<u>EPA Hazardous Waste Number</u>	<u>Amount</u>	<u>Units</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

**12. Remediation Waste.** Does the treatment works currently (or has it been modified that it will) receive waste from remedial activities?

Yes (complete 13. through 15.)       No

Provide a list of sites and the requested information (13. – 15.) for each current and future site.

**13. Waste Origin.** Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

**14. Pollutants.** List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).

**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):

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

Continuous  Intermittent

If intermittent, describe discharge schedule.

## SECTION 6. ADDITIONAL INFORMATION REQUIRED FOR PERMIT RENEWALS

1. Have there been any modifications to the treatment facilities or reuse or disposal system, since the issuance of the current permit? If yes, describe on a separate sheet and attach.  Yes  No
  
2. For limited wet weather discharges, have any modifications been made to the operation, frequency of discharge, or stream hydrology since the original limited wet weather discharge permit or the most recent permit. If yes, describe on a separate sheet and attach.  Yes  No  NA
  
3. Have there been any violations during the last six months? If yes, describe on a separate sheet and attach.  Yes  No
  
4. Have there been any treatment facility interferences due to the discharge of industrial wastewater to the treatment facility during the last six months? If yes, describe on a separate sheet and attach.  Yes  No
  
5. Is there any enforcement action pending against these treatment, reuse, or disposal facilities? If yes, describe on a separate sheet and attach.  Yes  No
  
6. Have all previous permit conditions, including pretreatment requirements, monitoring requirements, and operator attendance been complied with? If no, describe on a separate sheet and attach.  Yes  No
  
7. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., list the number of days during each of the last five years that the limited wet weather discharge was used. Also, list the total annual rainfall for each year.

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

8. For permit renewals involving a limited wet weather discharge permitted under Rule 62-610.860, F.A.C., provide the number of days during each of the last five years that the actual dilution ratio, as defined in Rule 62-610.860, F.A.C., was less than the minimum SDF and the number of months in which the monthly average 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.			

**SECTION 7. ADDITIONAL INFORMATION REQUIRED  
FOR RESIDUALS/SEPTAGE MANAGEMENT FACILITIES**  
(Not Applicable)

**1. Location of Residuals Treatment Processes** \_\_\_\_\_

(Describe in relation to the wastewater treatment processes.)

**2. Type and Amount of Waste Treated at this Facility**

Type	Amount (dry tons/day)	Amount (gallons/day)
Residuals	or	
Septage		
Food Establishment Sludge		
Portable Toilet Waste		
Holding Tank Waste		
Boat or Marina Waste		
Other (Describe.)	or	
Total	or	

Is the total amount estimated or actual?  Estimated  
 Actual

**3. Information on Treatment Facilities Transporting Residuals**

a. DEP Permit Number \_\_\_\_\_

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

c. Facility Type  Type I  
 Type II  
 Type III

d. Amount of Residuals Received From This Facility \_\_\_\_\_ dry tons/day or \_\_\_\_\_ gpd

Is this amount estimate or actual?  Estimated  
 Actual

e. Describe the treatment provided by this facility before transport

f. Parameter Concentrations

POLLUTANT	CONC.	UNITS
Total Nitrogen		% dry weight
Total Phosphorus		% dry weight
Total Potassium		% dry weight
Arsenic		mg/kg dry weight
Cadmium		mg/kg dry weight
Chromium		mg/kg dry weight
Copper		mg/kg dry weight
Lead		mg/kg dry weight
Mercury		mg/kg dry weight
Molybdenum		mg/kg dry weight
Nickel		mg/kg dry weight
Selenium		mg/kg dry weight
Zinc		mg/kg dry weight
pH		standard units
Total Solids		%
Other Parameters		

Date of Sample \_\_\_\_\_

4. Describe the manifest system used for tracking residuals during transport from the facilities.

## SECTION 8. DOCUMENTATION SUBMITTED

<b>1. General Application Requirements</b>	<b>Attached</b>	
	<b>Yes</b>	<b>No</b>
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

<b>2. Additional Application Requirements for New Facilities and Modifications to Existing Facilities</b>	<b>Yes</b>	<b>No</b>
	a. Preliminary Design Report	X
b. Documentation of Compliance with Antidegradation Requirements	X	
c. Public Service Commission Certification Number and Copy of Certificate or Order Number and Copy of Order	X	
d. Letter from the Management and Storage of Surface Waters Permitting Agency		X
e. Request for Approval of Monitoring Plans for Discharge of Domestic Wastewater to Wetlands		X
f. Concurrent Application for Ground Water Disposal by Underground Injection		X
g. Application for Monitoring Plan Approval		X

<b>3. Additional Application Requirements for Permit Renewals</b>	<b>Yes</b>	<b>No</b>
	a. Operation and Maintenance Performance Report	X
b. Reclaimed Water or Effluent Analysis Report		X
c. Technical Evaluation of Need to Revise Local Pretreatment Limits		X
d. Results of Mechanical Integrity Testing		X



## SECTION 9. CERTIFICATIONS

### 1. Certifications for Construction of New Facilities or Modifications to Existing Facilities

#### a. Applicant or Authorized Representative

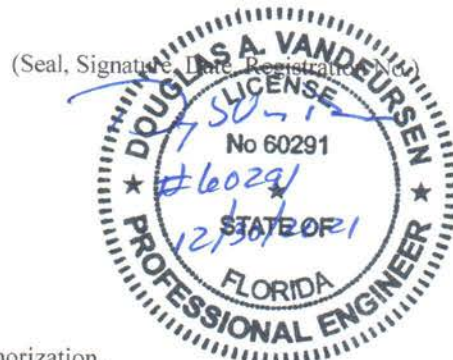
I certify that the statements made in this application for a permit and all attachments are true, correct, and complete to the best of my knowledge and belief. I agree to retain the design engineer, or another professional engineer registered in Florida, to conduct on-site observation of construction, to prepare a notification of completion of construction, and to review record drawings for adequacy as referenced in Rule 62-620.630, F.A.C. Further, I agree to provide an appropriate operation and maintenance manual for the facilities pursuant to Rule 62-620.630, F.A.C., and to retain a professional engineer registered in Florida to examine (or to prepare or revise, if necessary) the manual. For projects regulated by Chapter 62-610, F.A.C., I agree to provide the additional operation requirements of that Chapter.

<p style="text-align: center;"><i>Charles DeMenzes</i></p> <p style="text-align: center;">(Signature of Applicant or Authorized Representative<sup>1</sup>)</p> <p style="text-align: center;">Charles DeMenzes</p> <p style="text-align: center;">Name (please type):</p> <p style="text-align: center;">Charles deMenzes</p> <p style="text-align: center;">Florida Registration Number:</p> <p style="text-align: center;">(352) 622-4949</p> <p style="text-align: center;">Telephone No. (including area code)</p> <p style="text-align: center;">charlie@altfo.com</p> <p style="text-align: center;">Email (optional)</p>	<p style="text-align: center;">12/28/2021</p> <p style="text-align: center;">Date</p> <p style="text-align: center;">CFAT H2O, Inc.</p> <p style="text-align: center;">Company Name:</p> <p style="text-align: center;">P.O. Box 5220</p> <p style="text-align: center;">Company Street Address or P O Box</p> <p style="text-align: center;">Ocala, Florida 34478-5220</p> <p style="text-align: center;">City/State/Zip Code:</p>
--	---

#### 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.

<p style="text-align: center;">Douglas A. VanDeursen, P.E.</p> <p style="text-align: center;">Name (please type):</p> <p style="text-align: center;">60291</p> <p style="text-align: center;">Florida Registration Number:</p> <p style="text-align: center;">(352) 624-2068</p> <p style="text-align: center;">Telephone No. (including area code)</p> <p style="text-align: center;">dnmengineering@embarqmail.com</p> <p style="text-align: center;">Email (optional)</p>	<p style="text-align: center;">DNM Engineering &amp; Associates, Inc.</p> <p style="text-align: center;">Company Name:</p> <p style="text-align: center;">P.O. Box 42</p> <p style="text-align: center;">Company Street Address or P O Box</p> <p style="text-align: center;">Ocala, Florida 34478</p> <p style="text-align: center;">City/State/Zip Code:</p>
--	--

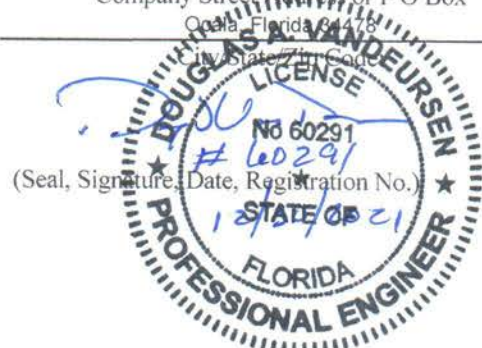


<sup>1</sup> If signed by the authorized representative, attach a letter of authorization.

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.

Douglas A. VanDeursen, P.E.	DNM Engineering & Associates, Inc.
Name (please type): 60291	Company Name: P.O. Box 42
Florida Registration Number: (352) 624-2068	Company Street Address or P O Box Ocala, Florida 34478
Telephone No. (including area code) dnmengineering@embarqmail.com	City, State, Zip Code Ocala, Florida 34478
Email (optional)	(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 Landfair WWTF 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.

<i>Charles DeMenzes</i>	12/28/2021
(Signature of Applicant or Authorized Representative <sup>2</sup> )	Date
Charles DeMenzes	CFAT H2O, Inc.
Name (please type) President	Company Name P.O. Box 5220
Title (352) 622-4949	Company Street Address or P O Box Ocala, Florida 34478-5220
Telephone No. (including area code) charlie@altfo.com	City, State, Zip Code
Email (optional)	

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

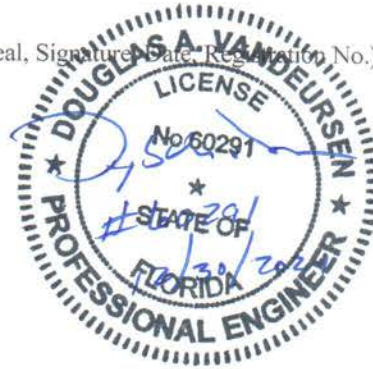
b. Professional Engineer

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.

Douglas A. VanDeursen, P.E.  
Name (please type):  
60291  
Florida Registration Number:  
(352) 624-2068  
Telephone No. (including area code)  
dnmengineering@embarqmail.com  
Email Address (optional)

DNM Engineering & Associates, Inc.  
Company Name:  
P.O. Box 42  
Company Street Address or P O Box  
Ocala, Florida 34478  
City/State/Zip Code:

(Seal, Signature, Date, Registration No.)



## **SECTION 1, PART 6 OF DEP FORM 2A: ATTACHMENT**

### **6. Municipalities or Areas Served:**

#### **Name of Municipality or Areas Served**

- 1) **Landfair Multi-Family Subdivision**  
Intersection of N.E. 78<sup>th</sup> Street & N.E. Jacksonville Road  
Seventy-six (76) Multi-Family Duplexes ( 2 Bedroom/2 Bath)  
Community Center
- 2) **Hilltop Manor Apartments**  
7334 N.E. Jacksonville Road  
33 - 2 Bedroom/1 Bath Apartments  
4 - 1 Bedroom/1 Bath Apartments  
Office, Laundry Facility, Storage
- 3) **Hilltop Manor II Apartments**  
7334 N.E. Jacksonville Road  
30 - 2 Bedroom/1 Bath Townhouses  
15 - 1 Bedroom/1 Bath Townhouses  
Laundry Facility
- 4) **Penny Park Estates MHP**  
1001 N.E. 77<sup>th</sup> Street  
27 Mobile Home Spaces (20 vacant spaces)
- 5) **Villages of Ocala East MHP**  
751 N.E. 77<sup>th</sup> Lane  
105 Mobile Home Spaces (63 vacant spaces)  
Recreation Building  
Office
- 6) **Villages of Ocala West MHP**  
370 N.E. 76<sup>th</sup> Lane  
65 Mobile Homes Spaces (37 vacant spaces)
- 7) **Marathon Convenience Store/Retail Gas Station**  
7025 N.E. Jacksonville Road  
3,200+/- Square feet Convenience Store

## **ITEM 3 OF SECTION 6 OF DEP FORM 2A: ATTACHMENT**

### **Effluent Sampling Point (EFA-01):**

- May 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (13.51 mg/L).
- May 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (28.71 mg/L).
- June 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.43 mg/L).
- June 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (27.38 mg/L).
- July 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (9.35 mg/L).
- July 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.54 mg/L).
- Aug. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.33 mg/L).
- Sept. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.39 mg/L).
- Oct. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.52 mg/L).

## ITEM 6 OF SECTION 6 OF DEP FORM 2A: ATTACHMENT

### Effluent Sampling Point (EFA-01):

- May 2017: Fecal Coliform concentration exceeded the single sample maximum concentration of 800/100mL (8,100/100mL).
- May 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- June 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- July 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Aug. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Sept. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Oct. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Nov. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.25/100mL).
- Dec. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.25/100mL).
- Jan. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Feb. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Mar. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Apr. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Aug. 2018: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (34.0 mg/L).
- Jan. 2019: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- July 2019: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- Jan. 2020: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- Feb. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (36.0 mg/L).
- Mar. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (117.0 mg/L).

## Landfair WWTF

- Mar. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.5 mg/L).
- Apr. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.67 mg/L).
- May 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (68.0 mg/L).
- May 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (29.08 mg/L).
- June 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (30.08 mg/L).
- July 2020: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- July 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (36.0 mg/L).
- July 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (31.92 mg/L).
- Aug. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (80.0 mg/L).
- Aug. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.5 mg/L).
- Sept. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (38.08 mg/L).
- Oct. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Nov. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.67 mg/L).
- Nov. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Dec. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.59 mg/L).
- Dec. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Jan. 2021: Annual influent samples for CBOD<sub>5</sub>; TSS; Nitrogen, Nitrate, Total (as N) were not performed.
- Jan. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.20 mg/L).
- Jan. 2021: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (34.0 mg/L).
- Jan. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (40.17 mg/L).
- Feb. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.32 mg/L).
- Feb. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (38.83 mg/L).

## Landfair WWTF

- Mar. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.78 mg/L).
- Mar. 2021: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (53.0 mg/L).
- Mar. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (33.50 mg/L).
- Apr. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.72 mg/L).
- Apr. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (32.83 mg/L).
- May 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (13.51 mg/L).
- May 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (28.71 mg/L).
- June 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.43 mg/L).
- June 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (27.38 mg/L).
- July 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (9.35 mg/L).
- July 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.54 mg/L).
- Aug. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.33 mg/L).
- Sept. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.39 mg/L).
- Oct. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.52 mg/L).



# **UPDATED CAPACITY ANALYSIS REPORT**

# **UPDATED CAPACITY ANALYSIS REPORT**

**FOR THE**

## **LANDFAIR WASTEWATER TREATMENT FACILITY**

**MIDPOINT OF N.E. 77<sup>TH</sup> LOOP  
OCALA, MARION COUNTY, FLORIDA**

<b>GMS Identification Number:</b>	<b>FLA010722</b>
<b>Operation Permit Number:</b>	<b>FLA010722-007-DW3P</b>
<b>Expiration Date:</b>	<b>April 9, 2021</b>

**Prepared by:**

**DNM Engineering & Associates, Inc.  
P.O. Box 42  
Ocala, Florida 34478**

**December 28, 2021**

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### CERTIFICATIONS

**PERMITTEE:**

Mr. Charles DeMenzes, President  
CFAT H2O, Inc.  
P.O. Box 5220  
Ocala, Florida 34478  
(352) 622-4949

As the responsible authority for the *Landfair WWTF*, the undersigned certifies that he/she has reviewed and is fully aware of the recommendations and schedules included in the report.

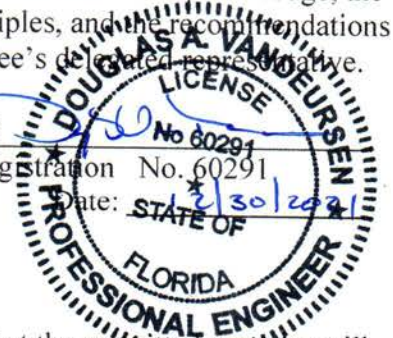
Date: 12/28/2021 Signature of Responsible Authority Charles DeMenzes

**ENGINEER:**

DNM Engineering & Associates, Inc.  
Douglas A. VanDeursen, P. E.  
P.O. Box 42  
Ocala, Florida 34478  
(352) 624-2068

As the Professional Engineer responsible for preparation of this report, the undersigned certifies that the information contained in this report is true and correct to the best of his knowledge, the report was prepared in accordance with sound engineering principles, and the recommendations and schedules have been discussed with the permittee or permittee's designated representative.

Signature of Engineer \_\_\_\_\_  
Florida Registration No. 60291  
Date: 12/30/2021  
STATE OF FLORIDA



**STATEMENT OF CAPACITY FOR NEXT FIVE YEARS**  
(Make appropriate selection)

The analysis of the wastewater treatment facility indicates that the permitted capacity will not be equaled or exceeded within the next five years.

The analysis of the wastewater treatment facility indicates that the permitted capacity will be equaled or exceeded within the next five years. As the professional engineer responsible for the preparation of plans and specifications, the undersigned certifies that planning and preliminary design specifications, for the necessary expansion, are being prepared.

Signature of Engineer \_\_\_\_\_  
Florida Registration No. 60291  
Date: 12/30/2021  
STATE OF FLORIDA



STATEMENT OF CAPACITY FOR NEXT FOUR YEARS

(Make appropriate selection)

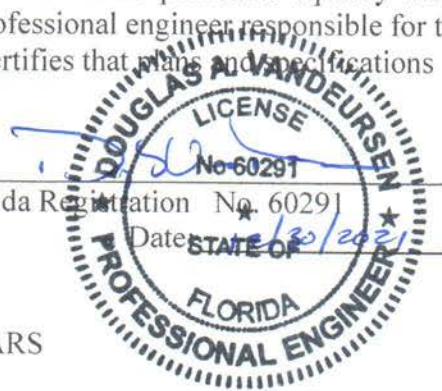
The analysis of the wastewater treatment facility indicates that the permitted capacity will not be equaled or exceeded within the next four years.

The analysis of the wastewater treatment facility indicates that the permitted capacity will be equaled or exceeded within the next four years. As the professional engineer responsible for the preparation of plans and specifications, the undersigned certifies that plans and specifications for the necessary expansion are being prepared.

Signature of Engineer \_\_\_\_\_

Florida Registration No. 60291

Date 1/30/2021



**PERMITTEE:**

STATEMENT OF CAPACITY FOR NEXT THREE YEARS

(Make appropriate selection)

The analysis of the wastewater treatment facility indicates that the permitted capacity will not be equaled or exceeded within the next three years.

The analysis of the wastewater treatment facility indicates that the permitted capacity will be equaled or exceeded within the next three years. As the responsible authority for the *Landfair WWTF*, the undersigned certifies that a complete construction permit application will be submitted to the Department of Environmental Protection within 30 days of submittal of this capacity analysis report.

Date: \_\_\_\_\_ Signature of Responsible Authority \_\_\_\_\_

STATEMENT OF CAPACITY FOR NEXT SIX MONTHS

(Make appropriate selection)

The analysis of the wastewater treatment facility indicates that the permitted capacity will not be equaled or exceeded within the next six months.

The analysis of the wastewater treatment facility indicates that the permitted capacity will be equaled or exceeded within the next six months. A complete construction/temporary operation/operation permit application for the expanded facility, as appropriate, is being submitted to the Department of Environmental Protection with this capacity analysis report.

Date: \_\_\_\_\_ Signature of Responsible Authority \_\_\_\_\_

## INTRODUCTION

### GENERAL

This is an updated capacity analysis report for the wastewater treatment plant that serves the following properties located in Ocala, Marion County, Florida:

- 1) **Landfair Multi-Family Subdivision**  
Intersection of N.E. 78<sup>th</sup> Street & N.E. Jacksonville Road  
Seventy-six (76) Multi-Family Duplexes ( 2 Bedroom/2 Bath)  
Community Center
- 2) **Hilltop Manor Apartments**  
7334 N.E. Jacksonville Road  
33 - 2 Bedroom/1 Bath Apartments  
4 - 1 Bedroom/1 Bath Apartments  
Office, Laundry Facility, Storage
- 3) **Hilltop Manor II Apartments**  
7334 N.E. Jacksonville Road  
30 - 2 Bedroom/1 Bath Townhouses  
15 - 1 Bedroom/1 Bath Townhouses  
Laundry Facility
- 4) **Penny Park Estates MHP**  
1001 N.E. 77<sup>th</sup> Street  
27 Mobile Home Spaces (20 vacant spaces)
- 5) **Villages of Ocala East MHP**  
751 N.E. 77<sup>th</sup> Lane  
105 Mobile Home Spaces (63 vacant spaces)  
Recreation Building  
Office
- 6) **Villages of Ocala West MHP**  
370 N.E. 76<sup>th</sup> Lane  
65 Mobile Homes Spaces (37 vacant spaces)
- 7) **Marathon Convenience Store/Retail Gas Station**  
7025 N.E. Jacksonville Road  
3,200+/- Square feet Convenience Store

The Landfair Wastewater Treatment Facility is located within the Landfair Multi-Family Subdivision at the midpoint of N.E. 77<sup>th</sup> Loop which intersects N.E. 22<sup>nd</sup> Terrace. The current permit expires on April 9, 2022.

## DESCRIPTION OF FACILITIES

### Wastewater Treatment Plant

The domestic wastewater treatment plant (WWTP) consists of a 0.099 MGD concrete modular package plant. The WWTP consists of a flow equalization basin, aeration, secondary clarification, chlorination and aerobic digestion of residuals. The permitted capacity of the WWTP is currently limited to 0.099 MGD Annual Average Daily Flow (AADF). The WWTP is an activated sludge process, which utilizes an extended aeration system. The components of the plant are as follows:

- (1) Influent Bar Screen
- (2) Flow equalization basin with a total volume of 10,000+/- gallons with Flow Splitter Box and duplex submersible equalization pumps and controls.
- (2) 20.0 HP, 3-Phase (208-230V/460V), 1760 RPM Motor and Roots Model 68-URAI blower assemblies for the delivery of air mixing and oxygen requirements.
- (2) Aeration basins with a total volume of 124,000+/- gallons.
- (1) Settling basin with a total volume of 26,000+/- gallons w/ sludge hopper, scum removal and effluent weir.
- (1) Aerobic sludge holding tanks with a total volume of 10,400+/- gallons.
- (1) Chlorine contact basin with a total volume of 5,500+/- gallons for disinfection.
- (1) Stevens Model #61R Effluent Flow Meter & V-Notch Weir.
- (1) Stenner 17 GPD, 115V Chemical Feeder Pump for the delivery of sodium hypochlorite solution for disinfection purposes.

### Reclaimed/Reuse Water Land Application of Effluent

The treated effluent is applied to the 0.099 MGD AADF on-site rapid rate land application system consisting of the following:

- (2) Percolation/evaporation ponds with total bottom area of 100,188+/- ft<sup>2</sup> (2.3+/- Acres).

### Residuals Disposal

Aerated sludge storage is provided to accommodate daily sludge production. Supernatant from the holding tank is returned to the aeration basin, via portable pump, to increase solids concentration within the tank. As needed, American Pipe and Tank d/b/a/ 412 Biosolids Processing Facility removes residuals from the aerobic sludge holding tank and hauls them off-site to be treated at a permitted Type II Residuals Management Facility (Permit No.: FLA356697-001-DW2S) by lime stabilization and land applied or disposed of in a Class I or II solid waste landfill.

## **EXISTING CONDITIONS**

### **PERMITTED CAPACITIES**

#### **Wastewater Treatment Plant**

Under the Florida Department of Environmental Protection permit number FLA010722; the wastewater treatment plant receives flow from the Landfair Multi-Family Housing Development, Hilltop Manor Apartments, Hilltop Manor II Apartments, Penny Park Estates MHP, Villages of Ocala East MHP, Villages of Ocala West MHP, and a Marathon Convenience Store/Retail Gas Station located in Ocala, Marion County, Florida. The permitted capacity of the wastewater treatment plant is 0.099 MGD Annual Average Daily Flow (AADF).

#### **Reclaimed/Reuse Water Land Application of Effluent**

The land application reuse system utilizes a rapid-rate land application system consisting of two (2) rapid rate infiltration basins (percolation ponds) with a combined total bottom area of 2.30+/- acres (100,188+/- square feet) and a total permitted capacity of 0.099 MGD Annual Average Daily Flow (AADF). The average hydraulic loading rate at permitted capacity to the land application system is 0.99 GPD/ft<sup>2</sup> or 1.59 inches per day (11.10 inches per week) at full permitted wastewater treatment plant capacity of 0.099 MGD. The hydraulic loading rate at the maximum 3MRADF (0.070 MGD) over the past three years is 1.12 inches per day.

#### **Residuals Disposal**

Aerated sludge storage is provided to accommodate daily sludge production. Supernatant from the holding tank is returned to the aeration basin, via portable pump, to increase solids concentration within the tank. As needed, American Pipe and Tank d/b/a/ 412 Biosolids Processing Facility removes residuals from the aerobic sludge holding tank and hauls them off-site to be treated at a permitted Type II Residuals Management Facility (Permit No.: FLA356697-001-DW2S) by lime stabilization and land applied or disposed of in a Class I or II solid waste landfill.

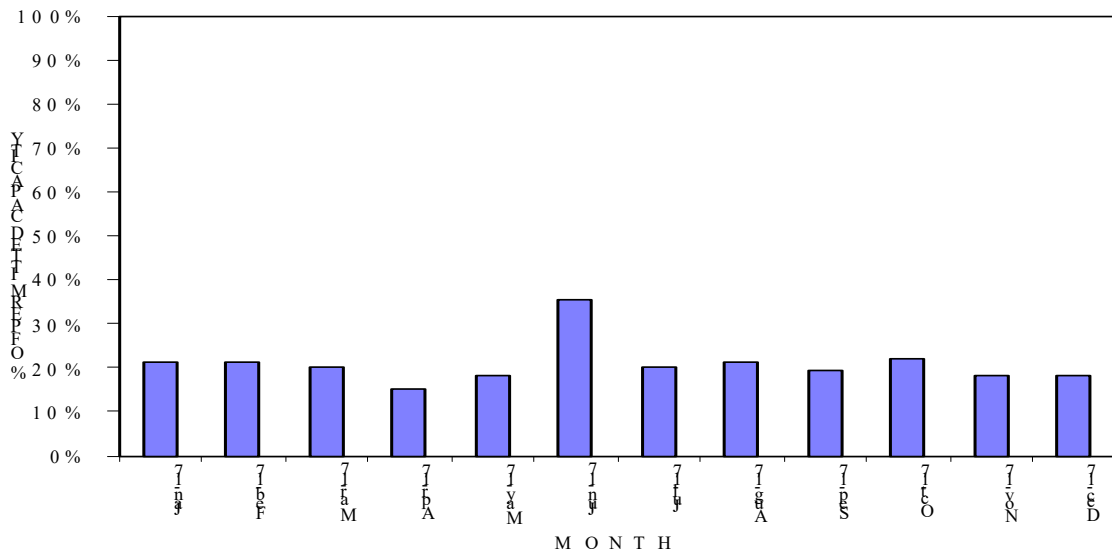


**AVERAGE DAILY FLOW, and THREE-MONTH AVERAGE DAILY FLOW**

**Monthly Average Daily Flows January – December 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

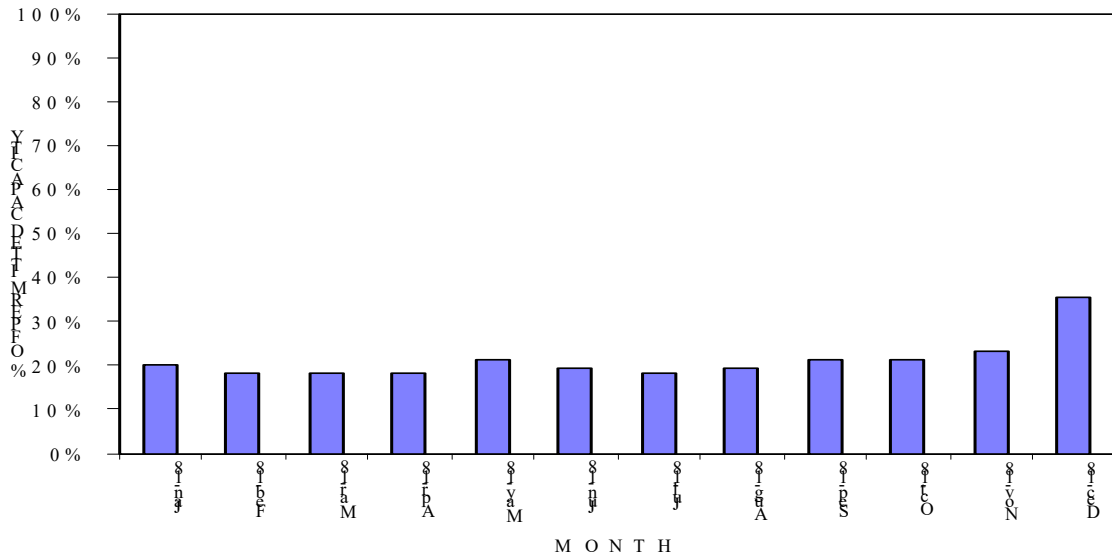
<b>M O N T H</b>	<b>P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y</b>	<b>M O N T H L Y A V G . F L O W ( M G D )</b>
<b>J a n -1 7</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>F e b -1 7</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>M a r -1 7</b>	<b>2 0 %</b>	<b>0 . 0 2 0</b>
<b>A p r -1 7</b>	<b>1 5 %</b>	<b>0 . 0 1 5</b>
<b>M a y -1 7</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>J u n -1 7</b>	<b>3 5 %</b>	<b>0 . 0 3 5</b>
<b>J u l -1 7</b>	<b>2 0 %</b>	<b>0 . 0 2 0</b>
<b>A u g -1 7</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>S e p -1 7</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
<b>O c t -1 7</b>	<b>2 2 %</b>	<b>0 . 0 2 2</b>
<b>N o v -1 7</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>D e c -1 7</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
	<b>A v e r a g e</b>	<b>0 . 0 2 1</b>



**Monthly Average Daily Flows January – December 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

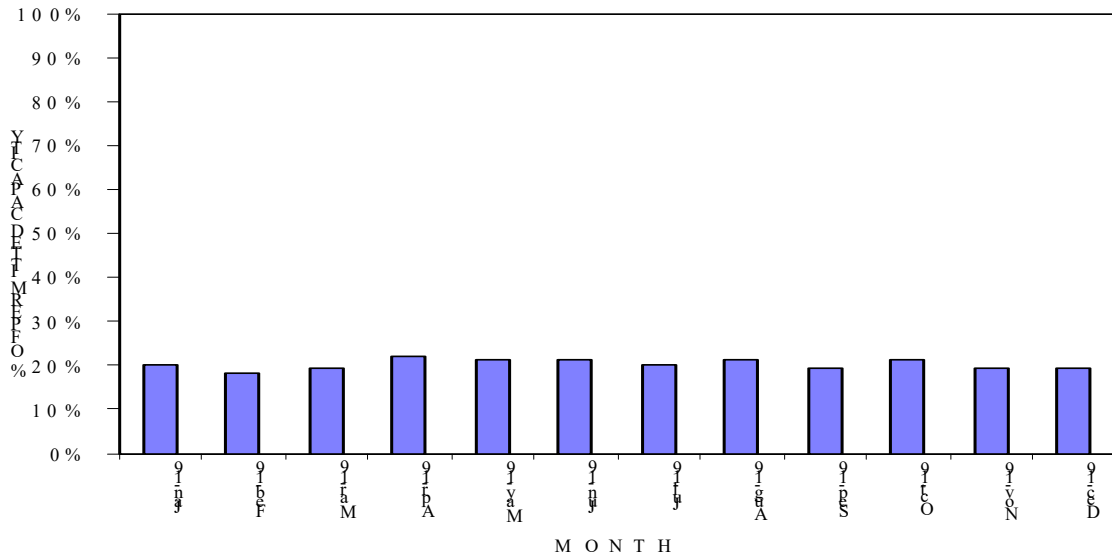
<b>M O N T H</b>	<b>P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y</b>	<b>M O N T H L Y A V G . F L O W ( M G D )</b>
<b>J a n - 1 8</b>	<b>2 0 %</b>	<b>0 . 0 2 0</b>
<b>F e b - 1 8</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>M a r - 1 8</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>A p r - 1 8</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>M a y - 1 8</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>J u n - 1 8</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
<b>J u l - 1 8</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>A u g - 1 8</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
<b>S e p - 1 8</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>O c t - 1 8</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>N o v - 1 8</b>	<b>2 3 %</b>	<b>0 . 0 2 3</b>
<b>D e c - 1 8</b>	<b>3 5 %</b>	<b>0 . 0 3 5</b>
<b>A v e r a g e</b>		<b>0 . 0 2 1</b>



**Monthly Average Daily Flows January – December 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

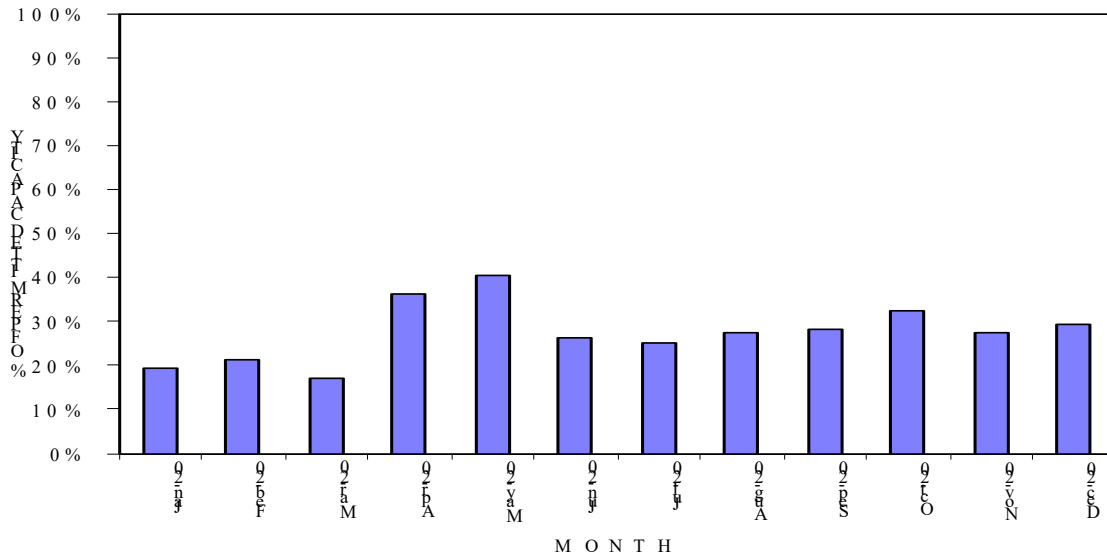
<b>M O N T H</b>	<b>P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y</b>	<b>M O N T H L Y A V G . F L O W ( M G D )</b>
<b>J a n - 1 9</b>	<b>2 0 %</b>	<b>0 . 0 2 0</b>
<b>F e b - 1 9</b>	<b>1 8 %</b>	<b>0 . 0 1 8</b>
<b>M a r - 1 9</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
<b>A p r - 1 9</b>	<b>2 2 %</b>	<b>0 . 0 2 2</b>
<b>M a y - 1 9</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>J u n - 1 9</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>J u l - 1 9</b>	<b>2 0 %</b>	<b>0 . 0 2 0</b>
<b>A u g - 1 9</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>S e p - 1 9</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
<b>O c t - 1 9</b>	<b>2 1 %</b>	<b>0 . 0 2 1</b>
<b>N o v - 1 9</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
<b>D e c - 1 9</b>	<b>1 9 %</b>	<b>0 . 0 1 9</b>
	<b>A v e r a g e</b>	<b>0 . 0 2 0</b>



**Monthly Average Daily Flows January – December 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

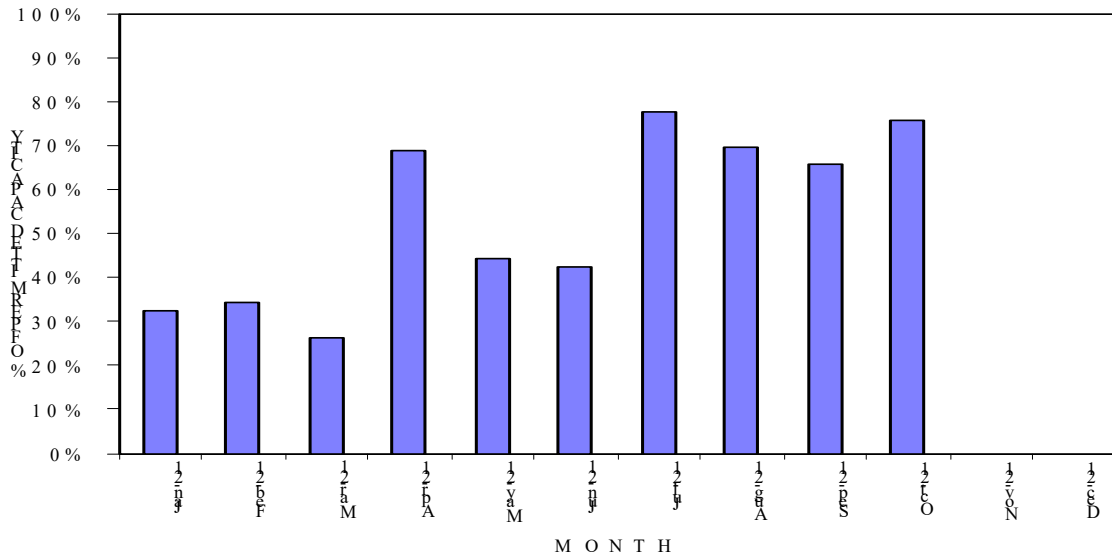
MONTH	PERCENTAGE OF PERMITTED CAPACITY	MONTHLY AVG. FLOW (MGD)
Jan -20	19 %	0.019
Feb -20	21 %	0.021
Mar -20	17 %	0.017
Apr -20	36 %	0.036
May -20	40 %	0.040
Jun -20	26 %	0.026
Jul -20	25 %	0.025
Aug -20	27 %	0.027
Sep -20	28 %	0.028
Oct -20	32 %	0.032
Nov -20	27 %	0.027
Dec -20	29 %	0.029
Average		0.027



**Monthly Average Daily Flows January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

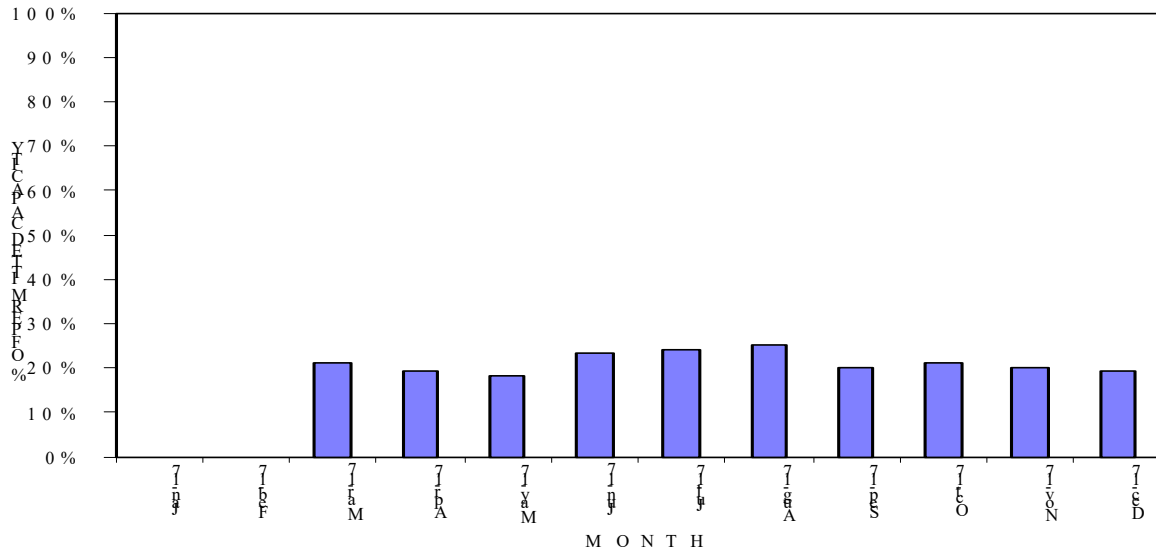
<b>M O N T H</b>	<b>P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y</b>	<b>M O N T H L Y A V G . F L O W ( M G D )</b>
<b>J a n - 2 1</b>	<b>3 2 %</b>	<b>0 . 0 3 2</b>
<b>F e b - 2 1</b>	<b>3 4 %</b>	<b>0 . 0 3 4</b>
<b>M a r - 2 1</b>	<b>2 6 %</b>	<b>0 . 0 2 6</b>
<b>A p r - 2 1</b>	<b>6 9 %</b>	<b>0 . 0 6 8</b>
<b>M a y - 2 1</b>	<b>4 4 %</b>	<b>0 . 0 4 4</b>
<b>J u n - 2 1</b>	<b>4 2 %</b>	<b>0 . 0 4 2</b>
<b>J u l - 2 1</b>	<b>7 8 %</b>	<b>0 . 0 7 7</b>
<b>A u g - 2 1</b>	<b>7 0 %</b>	<b>0 . 0 6 9</b>
<b>S e p - 2 1</b>	<b>6 6 %</b>	<b>0 . 0 6 5</b>
<b>O c t - 2 1</b>	<b>7 6 %</b>	<b>0 . 0 7 5</b>
<b>N o v - 2 1</b>	<b>0 %</b>	
<b>D e c - 2 1</b>	<b>0 %</b>	
	<b>A v e r a g e</b>	<b>0 . 0 5 3</b>



**Three Month Average Daily Flows January – December 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

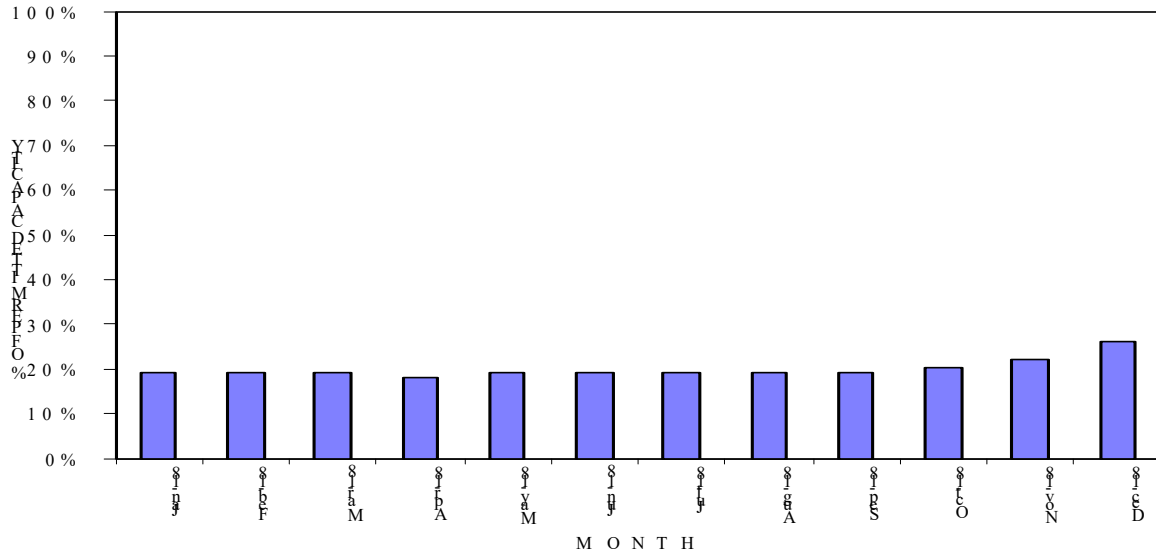
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	3 M O N T H A V G . F L O W ( M G D )
J a n - 1 7	0 %	
F e b - 1 7	0 %	
M a r - 1 7	2 1 %	0 . 0 2 1
A p r - 1 7	1 9 %	0 . 0 1 9
M a y - 1 7	1 8 %	0 . 0 1 8
J u n - 1 7	2 3 %	0 . 0 2 3
J u l - 1 7	2 4 %	0 . 0 2 4
A u g - 1 7	2 5 %	0 . 0 2 5
S e p - 1 7	2 0 %	0 . 0 2 0
O c t - 1 7	2 1 %	0 . 0 2 1
N o v - 1 7	2 0 %	0 . 0 2 0
D e c - 1 7	1 9 %	0 . 0 1 9
	<b>M a x i m u m</b>	<b>0 . 0 2 5</b>



**Three Month Average Daily Flows January – December 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

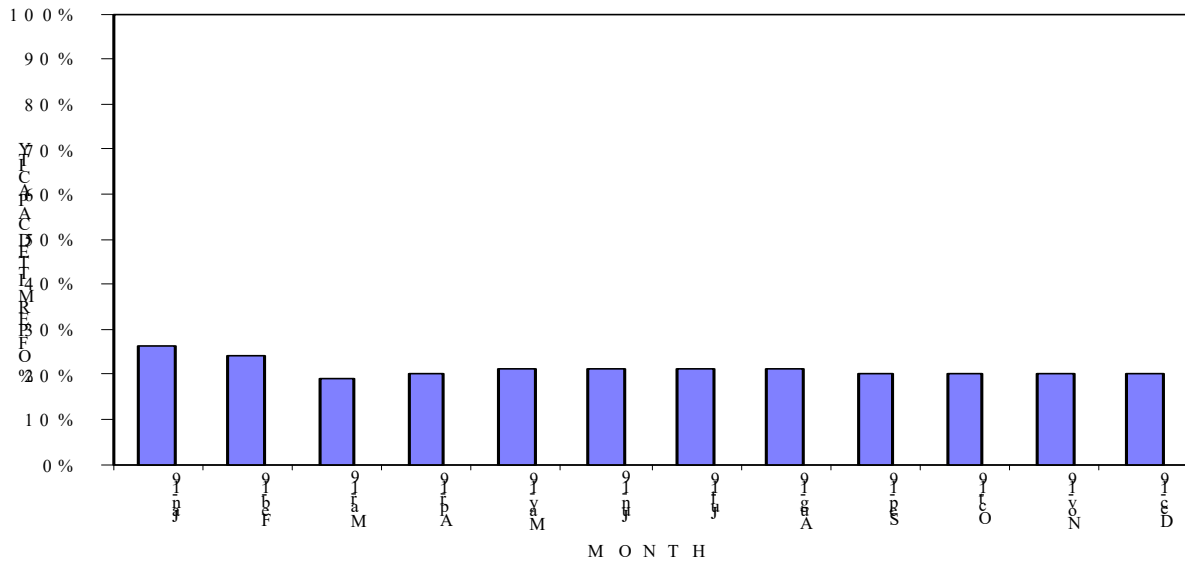
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	3 M O N T H A V G . F L O W ( M G D )
J a n - 1 8	1 9 %	0 . 0 1 9
F e b - 1 8	1 9 %	0 . 0 1 9
M a r - 1 8	1 9 %	0 . 0 1 9
A p r - 1 8	1 8 %	0 . 0 1 8
M a y - 1 8	1 9 %	0 . 0 1 9
J u n - 1 8	1 9 %	0 . 0 1 9
J u l - 1 8	1 9 %	0 . 0 1 9
A u g - 1 8	1 9 %	0 . 0 1 9
S e p - 1 8	1 9 %	0 . 0 1 9
O c t - 1 8	2 0 %	0 . 0 2 0
N o v - 1 8	2 2 %	0 . 0 2 2
D e c - 1 8	2 6 %	0 . 0 2 6
	<b>M a x i m u m</b>	<b>0 . 0 2 6</b>



**Three Month Average Daily Flows January – December 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	3 M O N T H A V G . F L O W ( M G D )
J a n - 1 9	2 6 %	0 . 0 2 6
F e b - 1 9	2 4 %	0 . 0 2 4
M a r - 1 9	1 9 %	0 . 0 1 9
A p r - 1 9	2 0 %	0 . 0 2 0
M a y - 1 9	2 1 %	0 . 0 2 1
J u n - 1 9	2 1 %	0 . 0 2 1
J u l - 1 9	2 1 %	0 . 0 2 1
A u g - 1 9	2 1 %	0 . 0 2 1
S e p - 1 9	2 0 %	0 . 0 2 0
O c t - 1 9	2 0 %	0 . 0 2 0
N o v - 1 9	2 0 %	0 . 0 2 0
D e c - 1 9	2 0 %	0 . 0 2 0
	<b>M a x i m u m</b>	<b>0 . 0 2 6</b>

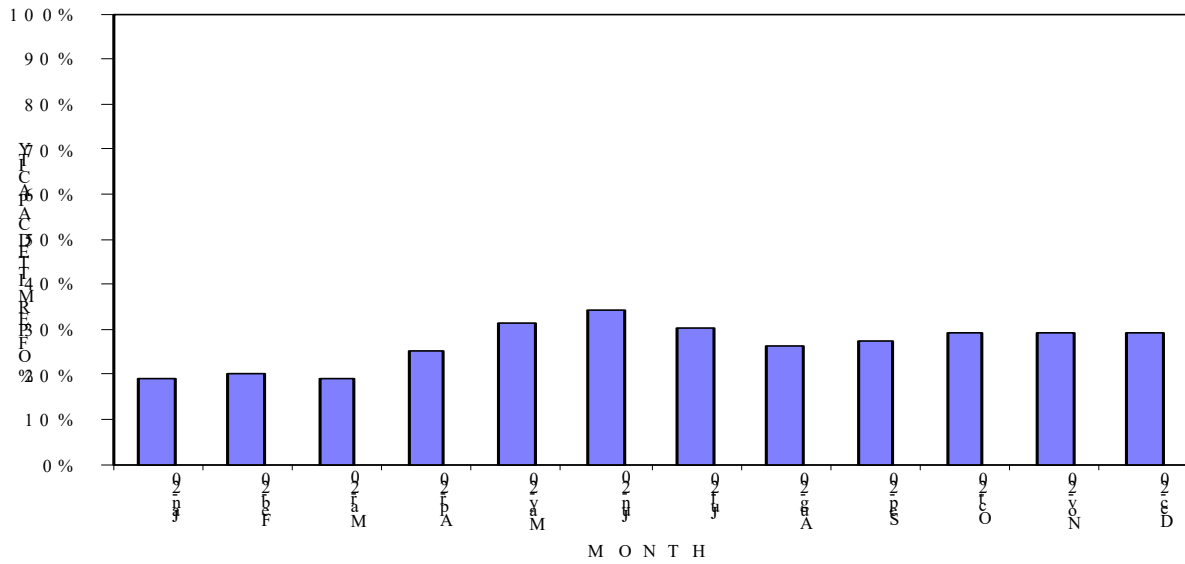




**Three Month Average Daily Flows January – December 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

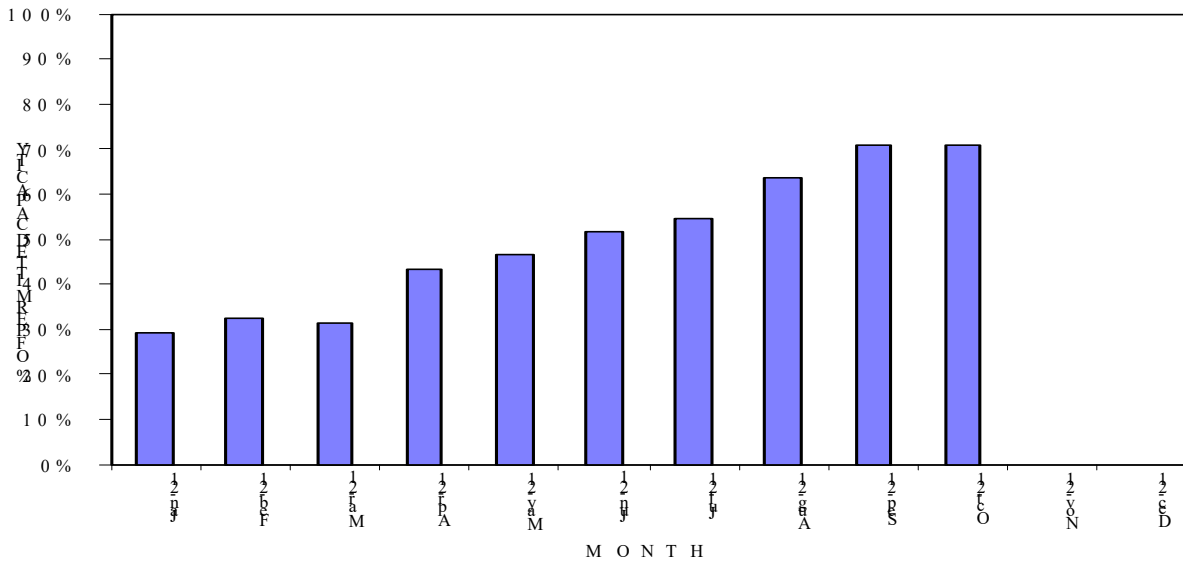
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	3 M O N T H A V G . F L O W ( M G D )
J a n - 2 0	1 9 %	0 . 0 1 9
F e b - 2 0	2 0 %	0 . 0 2 0
M a r - 2 0	1 9 %	0 . 0 1 9
A p r - 2 0	2 5 %	0 . 0 2 5
M a y - 2 0	3 1 %	0 . 0 3 1
J u n - 2 0	3 4 %	0 . 0 3 4
J u l - 2 0	3 0 %	0 . 0 3 0
A u g - 2 0	2 6 %	0 . 0 2 6
S e p - 2 0	2 7 %	0 . 0 2 7
O c t - 2 0	2 9 %	0 . 0 2 9
N o v - 2 0	2 9 %	0 . 0 2 9
D e c - 2 0	2 9 %	0 . 0 2 9
	<b>M a x i m u m</b>	<b>0 . 0 3 4</b>



**Three Month Average Daily Flows January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

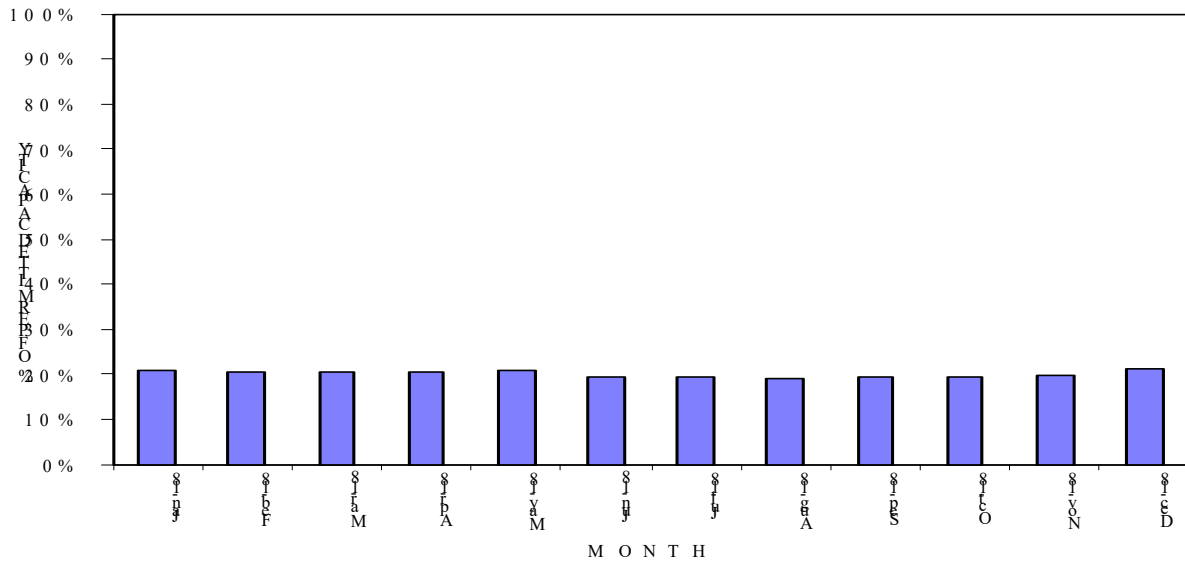
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	3 M O N T H A V G . F L O W ( M G D )
J a n - 2 1	2 9 %	0 . 0 2 9
F e b - 2 1	3 2 %	0 . 0 3 2
M a r - 2 1	3 1 %	0 . 0 3 1
A p r - 2 1	4 3 %	0 . 0 4 3
M a y - 2 1	4 6 %	0 . 0 4 6
J u n - 2 1	5 2 %	0 . 0 5 1
J u l - 2 1	5 5 %	0 . 0 5 4
A u g - 2 1	6 4 %	0 . 0 6 3
S e p - 2 1	7 1 %	0 . 0 7 0
O c t - 2 1	7 1 %	0 . 0 7 0
N o v - 2 1	0 %	
D e c - 2 1	0 %	
<b>M a x i m u m</b>		<b>0 . 0 7 0</b>



**Rolling Annual Average Daily Flows January – December 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

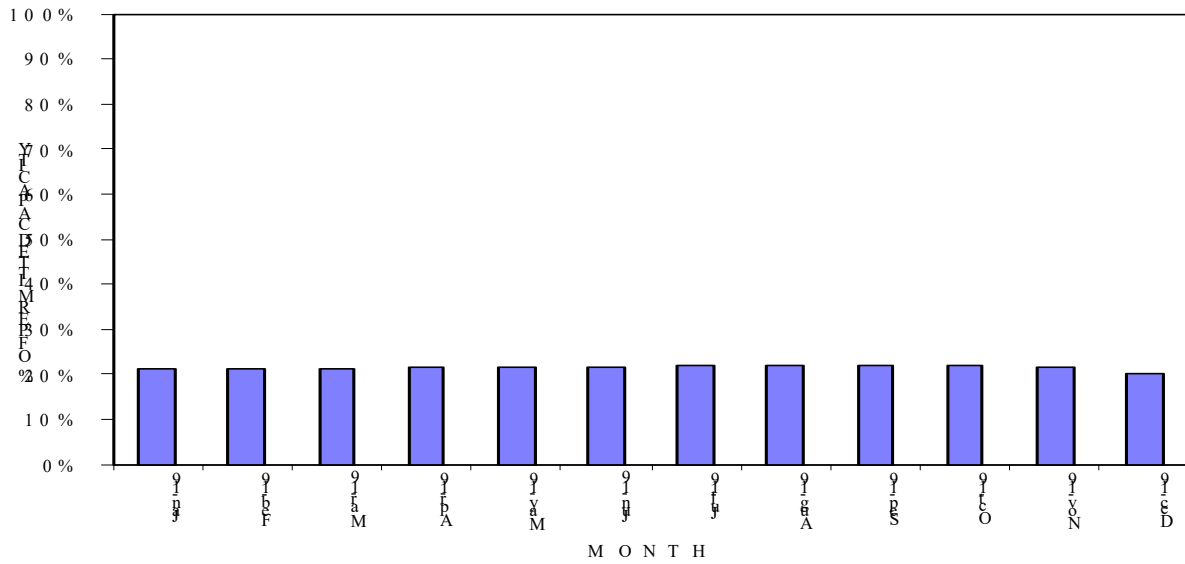
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	R O L L I N G A A D F F L O W ( M G D )
J a n - 1 8	2 1 %	0 . 0 2 0 6
F e b - 1 8	2 1 %	0 . 0 2 0 3
M a r - 1 8	2 0 %	0 . 0 2 0 2
A p r - 1 8	2 1 %	0 . 0 2 0 4
M a y - 1 8	2 1 %	0 . 0 2 0 7
J u n - 1 8	1 9 %	0 . 0 1 9 3
J u l - 1 8	1 9 %	0 . 0 1 9 2
A u g - 1 8	1 9 %	0 . 0 1 9 0
S e p - 1 8	1 9 %	0 . 0 1 9 2
O c t - 1 8	1 9 %	0 . 0 1 9 1
N o v - 1 8	2 0 %	0 . 0 1 9 5
D e c - 1 8	2 1 %	0 . 0 2 0 9
	<b>M a x i m u m</b>	<b>0 . 0 2 0 9</b>



**Rolling Annual Average Daily Flows January – December 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

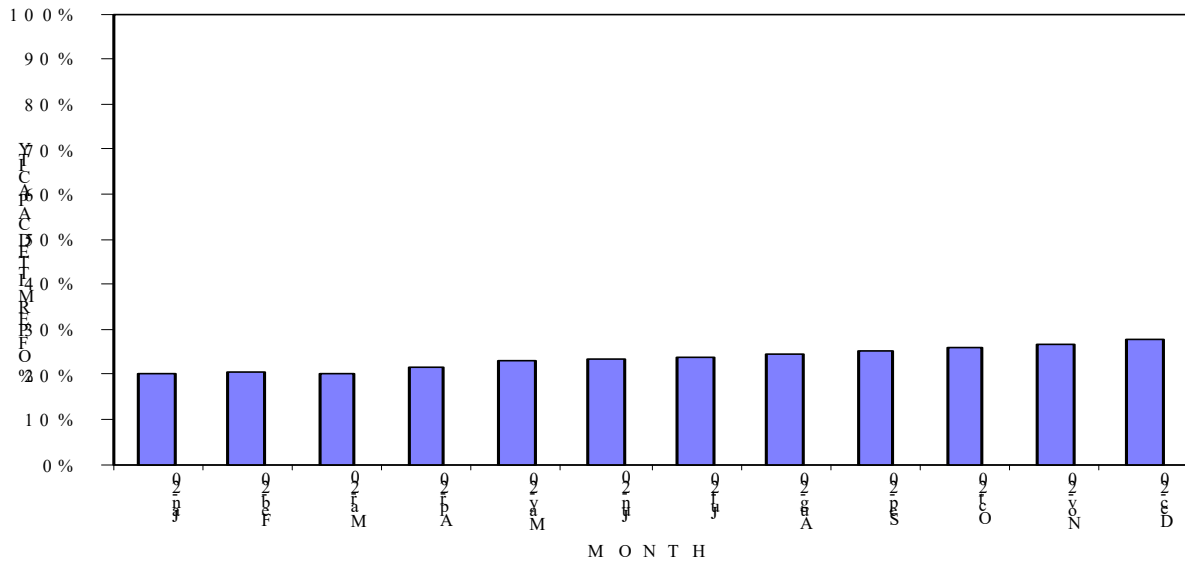
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	R O L L I N G A A D F F L O W ( M G D )
J a n - 1 9	2 1 %	0 . 0 2 0 9
F e b - 1 9	2 1 %	0 . 0 2 0 9
M a r - 1 9	2 1 %	0 . 0 2 1 0
A p r - 1 9	2 2 %	0 . 0 2 1 3
M a y - 1 9	2 2 %	0 . 0 2 1 3
J u n - 1 9	2 2 %	0 . 0 2 1 5
J u l - 1 9	2 2 %	0 . 0 2 1 7
A u g - 1 9	2 2 %	0 . 0 2 1 8
S e p - 1 9	2 2 %	0 . 0 2 1 7
O c t - 1 9	2 2 %	0 . 0 2 1 7
N o v - 1 9	2 2 %	0 . 0 2 1 3
D e c - 1 9	2 0 %	0 . 0 2 0 0
	<b>M a x i m u m</b>	<b>0 . 0 2 1 8</b>



**Rolling Annual Average Daily Flows January – December 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

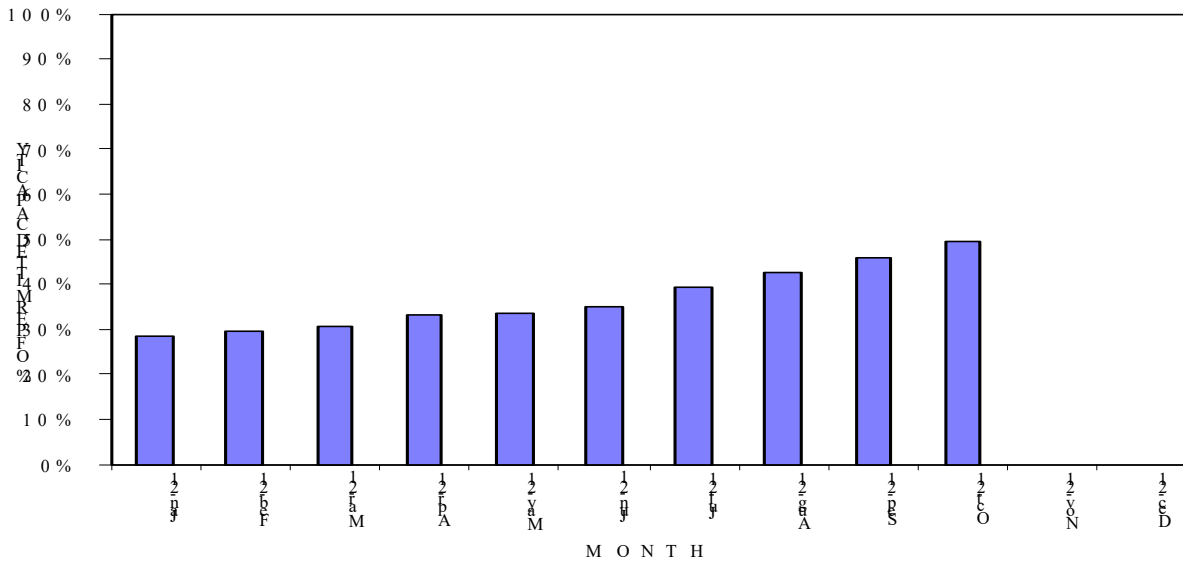
M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	R O L L I N G A A D F F L O W ( M G D )
J a n - 2 0	2 0 %	0 . 0 1 9 9
F e b - 2 0	2 0 %	0 . 0 2 0 2
M a r - 2 0	2 0 %	0 . 0 2 0 0
A p r - 2 0	2 1 %	0 . 0 2 1 2
M a y - 2 0	2 3 %	0 . 0 2 2 8
J u n - 2 0	2 3 %	0 . 0 2 3 2
J u l - 2 0	2 4 %	0 . 0 2 3 6
A u g - 2 0	2 4 %	0 . 0 2 4 1
S e p - 2 0	2 5 %	0 . 0 2 4 8
O c t - 2 0	2 6 %	0 . 0 2 5 8
N o v - 2 0	2 7 %	0 . 0 2 6 4
D e c - 2 0	2 8 %	0 . 0 2 7 3
	<b>M a x i m u m</b>	<b>0 . 0 2 7 3</b>



**Rolling Annual Average Daily Flows January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

M O N T H	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	R O L L I N G A A D F F L O W ( M G D )
J a n - 2 1	2 9 %	0 . 0 2 8 3
F e b - 2 1	3 0 %	0 . 0 2 9 4
M a r - 2 1	3 1 %	0 . 0 3 0 2
A p r - 2 1	3 3 %	0 . 0 3 2 8
M a y - 2 1	3 4 %	0 . 0 3 3 2
J u n - 2 1	3 5 %	0 . 0 3 4 5
J u l - 2 1	3 9 %	0 . 0 3 8 8
A u g - 2 1	4 3 %	0 . 0 4 2 3
S e p - 2 1	4 6 %	0 . 0 4 5 4
O c t - 2 1	4 9 %	0 . 0 4 9 0
N o v - 2 1	0 %	
D e c - 2 1	0 %	
<b>M a x i m u m</b>		<b>0 . 0 4 9 0</b>

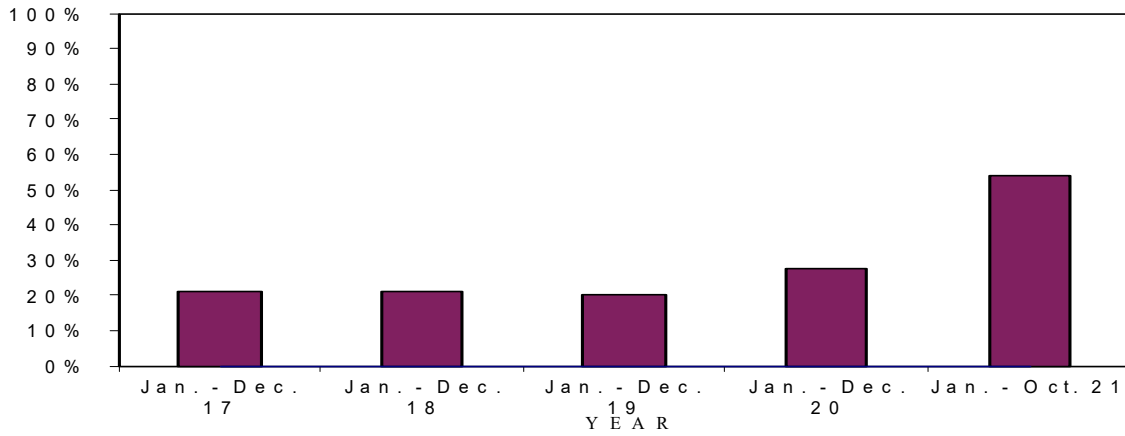


**Annual Average Daily Flows 2017 - 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

YEAR	PERCENTAGE OF PERMITTED CAPACITY	AVERAGED DAILY FLOW (MGD)
Jan. - Dec. 17	21 %	0.0210
Jan. - Dec. 18	21 %	0.0209
Jan. - Dec. 19	20 %	0.0200
Jan. - Dec. 20	28 %	0.0273
Jan. - Oct. 21	54 %	0.0532

**ANNUAL AVERAGE DAILY FLOW**



**UPDATED ORGANIC LOADING INFORMATION**

<b>Parameter</b>	<b>Design Loading (@ Permitted Capacity)</b>	<b>Current Loading January 2020</b>
CBOD <sub>5</sub>	240 mg/l	257 mg/l
TSS	240 mg/l	236 mg/l

Based upon *Recommended Standards For Wastewater Facilities, 1997 Edition*, the maximum organic loading rate is 15 lb. BOD<sub>5</sub>/d/1000 ft<sup>3</sup> for extended aeration. For this extended aeration wastewater treatment plant with 124,000+/- gallons in aeration volume, the design loadings are as follows:

$$\text{Maximum Organic Capacity} = 124,000 \text{ gallons/day} \div 7.48 \text{ gal/ft}^3 = 16,577.5 \text{ ft}^3/\text{day} \text{ and } (16,577.5 \text{ ft}^3/\text{day}) \div (1000 \text{ ft}^3 / 15 \text{ lbs./day}) = \underline{248.66 \text{ lbs. @ 124,000 GPD}}$$

$$\text{CBOD}_5 \text{ \& TSS (@ Maximum Permitted Capacity of 0.099 MGD)} \\ \text{Max. Conc. (mg/l)} = 248.66 \text{ lbs.} \div (0.099 \text{ MGD} \times 8.34 \text{ lb/MG}) = \underline{301.2 \text{ mg/l}} \\ \underline{\text{@ 0.099 MGD}}$$

$$\text{CBOD}_5 \text{ \& TSS (@ July 2021 Annual Average Daily Flow of 0.0532 MGD)} \\ \text{Max. Conc. (mg/l)} = 248.66 \text{ lbs.} \div (0.0532 \text{ MGD} \times 8.34 \text{ lb/MG}) = \underline{560.4 \text{ mg/l}} \\ \underline{\text{@ 0.0532 MGD}}$$

Based upon the 2021 Annual Average Daily Flow of 0.0532 MGD, the maximum allowable organic loading rate at the wastewater treatment plant is approximately 560.4 mg/L. The Landfair WWTF is currently achieving CBOD<sub>5</sub> and TSS Percent Removal Efficiencies of 99.2% and 99.2%, respectively, based upon the effluent data reported on the October 2021 DMR and the influent data reported on the January 2020 DMR.

**FLOW MEASUREMENT**

In accordance with the current facility permit, flow measurements are to be taken from the effluent V-notch weir and totalizer flow meter (FLW-1) located at the chlorine contact chamber of WWTF. The Effluent V-notch Weir and Totalizing Flow Meter are to be calibrated at least annually.



**SEASONAL VARIATIONS IN FLOW**

The following information is taken from Monthly Discharge Monitoring Reports.

<b>YEAR</b>	<b>MONTH OF MAXIMUM THREE MONTH AVERAGE DAILY FLOW</b>	<b>MAXIMUM THREE MONTH AVERAGE DAILY FLOW (MGD)</b>	<b>ANNUAL AVERAGE DAILY FLOW (MGD)</b>	<b>RATIO OF MAXIMUM THREE MONTH AVERAGE DAILY FLOW TO ANNUAL AVERAGE DAILY FLOW</b>
Jan. - Dec. '17	August	0.025	0.021	1.19
Jan. - Dec. '18	December	0.026	0.0209	1.24
Jan. - Dec. '19	January	0.026	0.020	1.30
Jan. - Dec. '20	June	0.034	0.0273	1.25
Jan. - Oct. '21	Sept. & Oct.	0.070	0.0532	1.32
			Average =	1.26

## FUTURE CONDITIONS

### FLOW PROJECTIONS

Upon reviewing flow data reported on the Discharge Monitoring Reports from January 2017 through October 2021, the Landfair Wastewater Treatment Plant has historically experienced annual average daily flows of approximately 0.021 MGD, 0.0209 MGD, 0.020 MGD, 0.0273 MGD, and 0.0532 MGD, respectively. The Landfair WWTF service area includes Landfair Multi-Family Housing Development which consists of 76 two-bedroom/one bath apartments; Hilltop Manor Apartments which consists of 33 two bedroom/one bath apartments and 4 one-bedroom/one bath apartments; Hilltop Manor II Apartments which consists of 30 two-bedroom/one bath apartments and 15 one-bedroom/one bath apartments; Penny Park Estates MHP which consists of 27 mobile home units; Villages of Ocala East MHP which consists of 105 mobile home units; Villages of Ocala West MHP which consists of 65 mobile home units; and a Marathon Convenience Store/Retail Gas.

The average ratio of yearly maximum three-month average daily flows to annual average daily flows, as noted above in *SEASONAL VARIATIONS IN FLOW*, is 1.26.

YEAR	POPULATION PROJECTION (Varies)	PROJECTED ANNUAL AVERAGE DAILY FLOW (MGD)	PROJECTED MAXIMUM THREE MONTH AVERAGE DAILY FLOW
2022	~744	0.0532	0.067
2023	~744	0.0532	0.067
2024	~744	0.0532	0.067
2025	~744	0.0532	0.067
2026	~744	0.0532	0.067
2027	~744	0.0532	0.067
2028	~744	0.0532	0.067
2029	~744	0.0532	0.067
2030	~744	0.0532	0.067
2031	~744	0.0532	0.067
2032	~744	0.0532	0.067

## **SUMMARY**

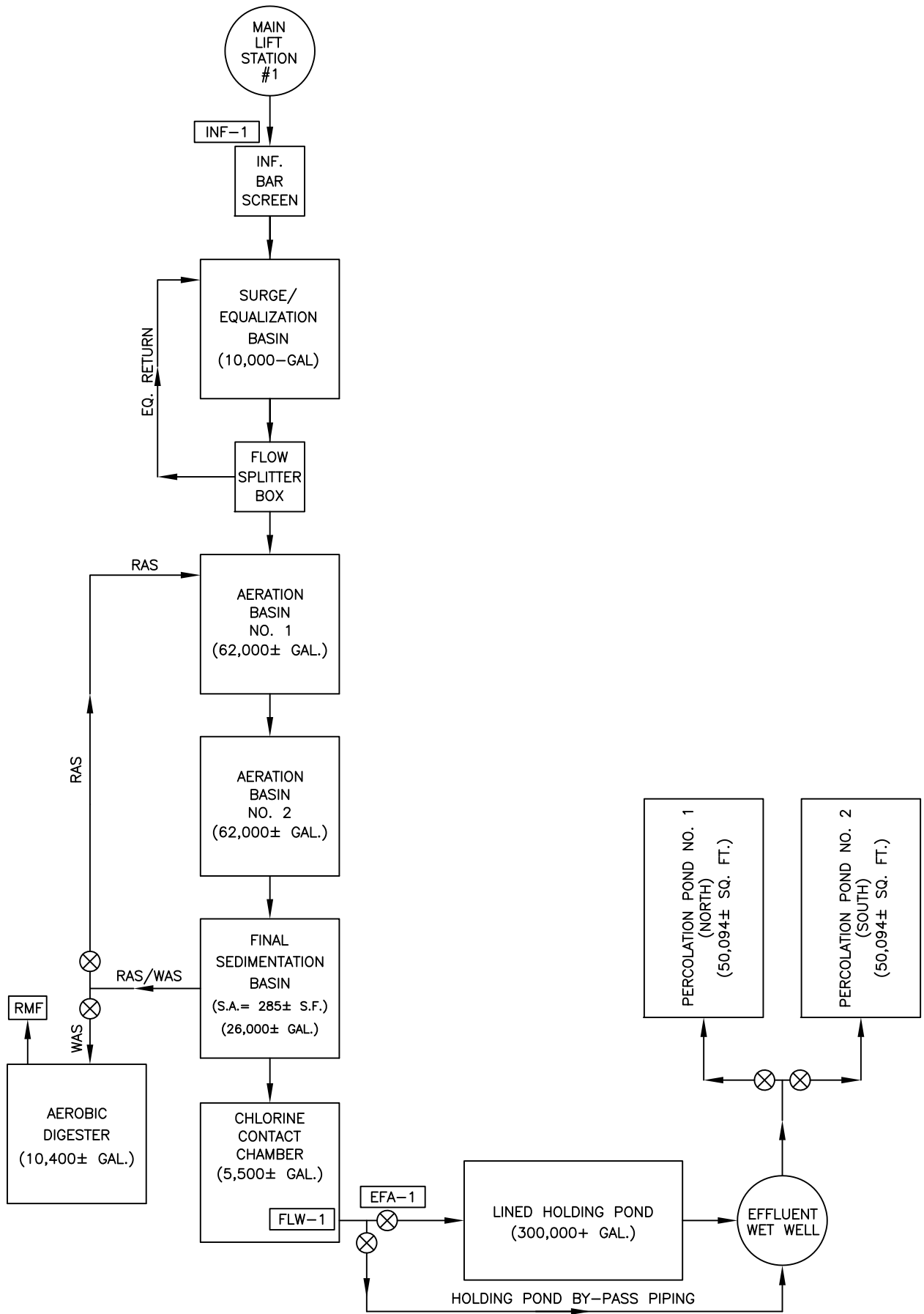
### **THREE MONTH AVERAGE DAILY FLOW VS PERMITTED CAPACITY**

Based upon the review of the Discharge Monitoring Reports (DMRs) from January 2017 through October 2021 for the Landfair Wastewater Treatment Facility (WWTF), the Three Month Average Daily Flow (TMADF) and the Annual Average Daily Flow (AADF) have not exceeded the permitted capacity of the wastewater treatment plant (0.099 MGD AADF) or the permitted capacity of the Reclaimed/Reuse Water Land Application Disposal System (0.099 MGD AADF).

### **RECOMMENDATION FOR EXPANSION**

Based upon the review of the Discharge Monitoring Reports (DMRs) from January 2017 through October 2021 for the Landfair Wastewater Treatment Facility (WWTF), the Annual Average Daily Flow (AADF) to the Landfair WWTF has been between 20.2% and 53.7% of the WWTF's permitted capacity (0.099 MGD AADF) and the permitted capacity of the facility's rapid-rate land application system (0.099 MGD AADF). In addition, the maximum Three Month Rolling Average Daily Flow (TMRADF) to the Landfair WWTF has been between 25.3% and 70.7% of the WWTF's permitted capacity (0.099 MGD AADF). Therefore, based upon our review of the historical wastewater flows, the performance level of the existing WWTF, and the projected flow rates, it is our opinion that the Landfair WWTF will not require expansion within the next five years.

# **WWTF PROCESS FLOW DIAGRAM**

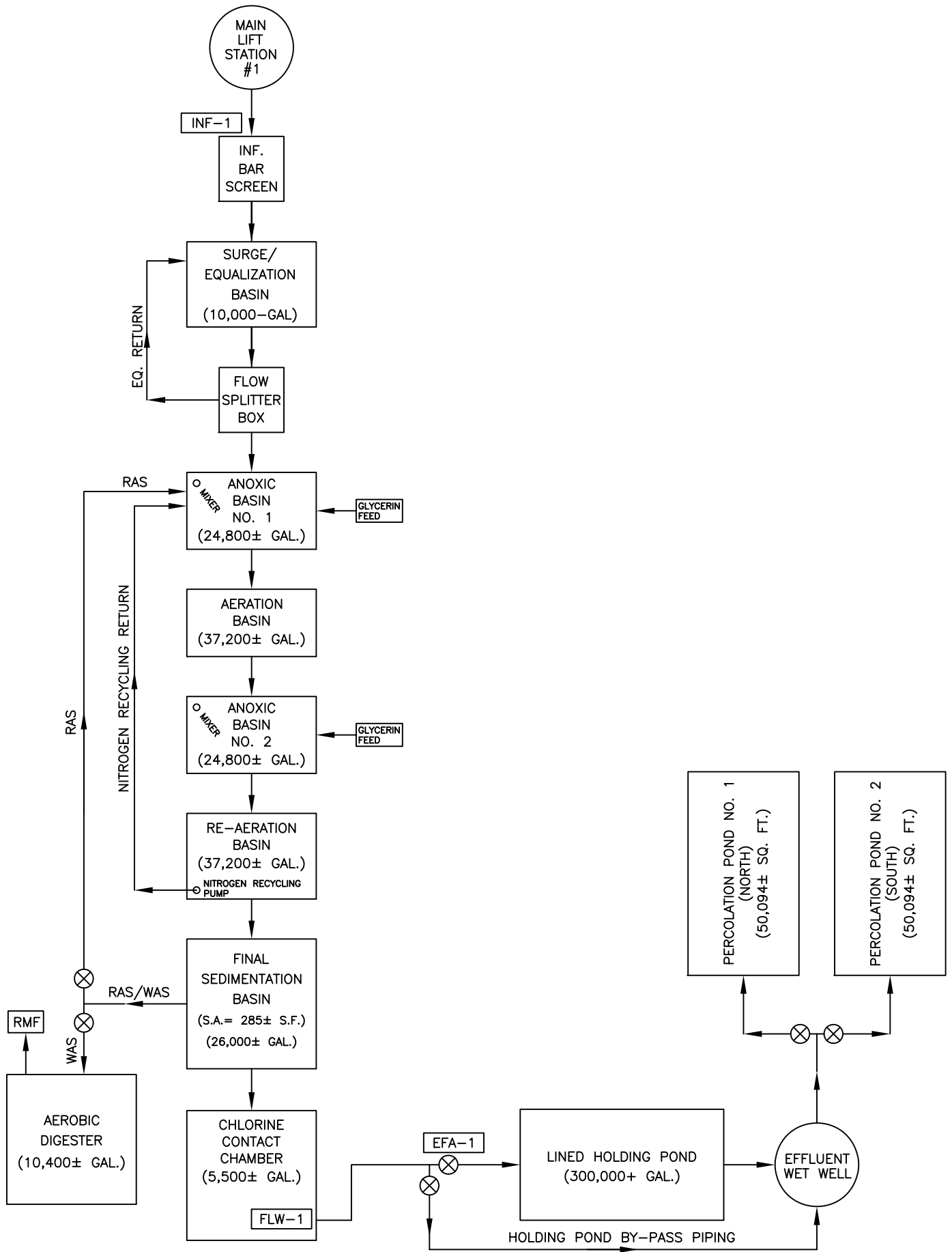


**LANDFAIR WWTF**  
**FLA010722**  
**PROCESS FLOW DIAGRAM**  
**(EXISTING)**

**DNM ENGINEERING & ASSOCIATES, INC.**

P.O. BOX 42  
 OCALA, FLORIDA 34471

FAX (352) 622-6643  
 (352) 624-2068



**LANDFAIR WWTF**  
**FLA010722**  
**PROCESS FLOW DIAGRAM**  
**(PROPOSED)**

**DNM ENGINEERING & ASSOCIATES, INC.**

P.O. BOX 42  
 OCALA, FLORIDA 34471

FAX (352) 622-6643  
 (352) 624-2068

# **SSERVICE AREA MAP**

Leg



Untitled Map

Write a description for your map.



**LANDFAIR WWTF**  
**FLA010722**  
**SERVICE AREA MAP**

**DNM ENGINEERING & ASSOCIATES, INC.**  


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*P.O. BOX 42*      *FAX (352) 629-2988*  
*OCALA, FLORIDA 34478*      *(352) 624-2068*



**OPERATION AND MAINTENANCE  
PERFORMANCE REPORT**

# **OPERATION AND MAINTENANCE PERFORMANCE REPORT**

## **FOR THE LANDFAIR WASTEWATER TREATMENT FACILITY**

**INTERSECTION OF N.E. 28<sup>TH</sup> PLACE & N.E. 23<sup>RD</sup> COURT  
OCALA, MARION COUNTY, FLORIDA**

<b>GMS Identification Number:</b>	<b>FLA010722-007-DW3P</b>
<b>Operation Permit Number :</b>	<b>FLA010722</b>
<b>Expiration Date:</b>	<b>April 9, 2022</b>
<b>Field Evaluation Conducted:</b>	<b>August 9, 2021 August 26, 2021</b>

**Prepared by:**



**P.O. Box 42  
Ocala, Florida 34478**

**August 31, 2021  
December 28, 2021 (Updated)**

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Landfair Wastewater Treatment Facility

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### CERTIFICATIONS

**PERMITTEE:**

Charles DeMenzes, President  
CFAT H2O, Inc.  
P.O. Box 5220  
Ocala, Florida 34478-5220  
(352) 622-4949

As the responsible authority for the *Landfair WWTF*, the undersigned certifies that he/she is fully aware of and intends to comply with the recommendations and schedules included herein.

Date: 12/28/2021 Signature of Responsible Authority: Charles deMenzes

**OPERATOR:**

Reuben Law (B-12483)  
R and K Environmental, LLC  
4275 Northeast 137<sup>th</sup> Street  
Anthony, Florida 32617  
(352) 661-8952  
[randkenvironmental@outlook.com](mailto:randkenvironmental@outlook.com)

As the operator for the *Landfair WWTF*, the undersigned certifies that he/she has reviewed and is fully aware of the recommendations and schedules included in the report.

Date: \_\_\_\_\_ Signature of Operator: \_\_\_\_\_

**ENGINEER:**

Douglas A. VanDeursen, P.E.  
DNM Engineering and Associates, Inc.  
P.O. Box 42  
Ocala, Florida 34478  
(352) 624-2068

As the Professional Engineer responsible for preparation of this report, the undersigned certifies that the information contained in this report is true and correct to the best of his knowledge, the report was prepared in accordance with sound engineering principles, that the recommendations and schedules have been discussed with the permittee or the permittee's delegated representative and with the operator, and that if the recommended schedules for corrective action are met, the facilities, when properly operated and maintained, will comply with the applicable statutes of the State of Florida and rules of the Department of Environmental Protection.

Signature of Engineer: \_\_\_\_\_  
Florida Registration No.: \_\_\_\_\_  
Date: \_\_\_\_\_



This document has been signed and sealed by Douglas A. VanDeursen, P.E. on 12-31-2021 using an "SHA" Authentication Code. Printed copies of this document are not considered signed and sealed and the "SHA" Authentication Code must be verified on any electronic copies.

## INTRODUCTION

### GENERAL

This is an operation & maintenance performance report for the wastewater treatment plant that serves the following properties located in Ocala, Marion County, Florida:

- 1) **Landfair Multi-Family Subdivision**  
Intersection of N.E. 78<sup>th</sup> Street & N.E. Jacksonville Road  
  
Seventy-six (76) Multi-Family Duplexes ( 2 Bedroom/2 Bath)  
Community Center
- 2) **Hilltop Manor Apartments**  
7334 N.E. Jacksonville Road  
  
33 - 2 Bedroom/1 Bath Apartments  
4 - 1 Bedroom/1 Bath Apartments  
Office, Laundry Facility, Storage
- 3) **Hilltop Manor II Apartments**  
7334 N.E. Jacksonville Road  
  
30 - 2 Bedroom/1 Bath Townhouses  
15 - 1 Bedroom/1 Bath Townhouses  
Laundry Facility
- 4) **Penny Park Estates MHP**  
1001 N.E. 77<sup>th</sup> Street  
  
27 Mobile Home Spaces (20 vacant spaces)
- 5) **Villages of Ocala East MHP**  
751 N.E. 77<sup>th</sup> Lane  
  
105 Mobile Home Spaces (63 vacant spaces)  
Recreation Building  
Office
- 6) **Villages of Ocala West MHP**  
370 N.E. 76<sup>th</sup> Lane  
  
65 Mobile Homes Spaces (37 vacant spaces)
- 7) **Marathon Convenience Store/Retail Gas Station**  
7025 N.E. Jacksonville Road  
  
3,200+/- Square feet Convenience Store

The Landfair Wastewater Treatment Facility is located within the Landfair Multi-Family Subdivision at the midpoint of N.E. 77<sup>th</sup> Loop which intersects N.E. 22<sup>nd</sup> Terrace. The current permit expires on April 9, 2022.

## DESCRIPTION OF FACILITIES

### Wastewater Treatment Plant

The domestic wastewater treatment plant (WWTP) consists of a 0.099 MGD concrete modular package plant. The WWTP consists of a flow equalization basin, aeration, secondary clarification, chlorination and aerobic digestion of residuals. The permitted capacity of the WWTP is currently limited to 0.099 MGD Annual Average Daily Flow (AADF). The WWTP is an activated sludge process, which utilizes an extended aeration system. The components of the plant are as follows:

- (1) Influent Bar Screen
- (2) Flow equalization basin with a total volume of 10,000+/- gallons with Flow Splitter Box and duplex submersible equalization pumps and controls.
- (2) 20.0 HP, 3-Phase (208-230V/460V), 1760 RPM Motor and Roots Model 68-URAI blower assemblies for the delivery of air mixing and oxygen requirements.
- (2) Aeration basins with a total volume of 124,000+/- gallons.
- (1) Settling basin with a total volume of 26,000+/- gallons w/ sludge hopper, scum removal and effluent weir.
- (1) Aerobic sludge holding tanks with a total volume of 10,400+/- gallons.
- (1) Chlorine contact basin with a total volume of 5,500+/- gallons for disinfection.
- (1) Stevens Model #61R Effluent Flow Meter & V-Notch Weir.
- (1) Stenner 17 GPD, 115V Chemical Feeder Pump for the delivery of sodium hypochlorite solution for disinfection purposes.

### Reclaimed/Reuse Water Land Application of Effluent

The treated effluent is applied to the 0.099 MGD AADF on-site rapid rate land application system consisting of the following:

- (2) Percolation/evaporation ponds with total bottom area of 100,188+/- ft<sup>2</sup> (2.3+/- Acres).

### Residuals Disposal

Aerated sludge storage is provided to accommodate daily sludge production. Supernatant from the holding tank is returned to the aeration basin, via portable pump, to increase solids concentration within the tank. As needed, American Pipe and Tank d/b/a/ 412 Biosolids Processing Facility removes residuals from the aerobic sludge holding tank and hauls them off-site to be treated at a permitted Type II Residuals Management Facility (Permit No.: FLA356697-001-DW2S) by lime stabilization and land applied or disposed of in a Class I or II solid waste landfill.

## CONDITION OF FACILITIES

### WASTEWATER TREATMENT FACILITY

Causes for safety concerns regarding the operation or features of the facility were not evident.

<u>Component</u>	<u>Structure Condition</u>	<u>Equipment Condition</u>	<u>Piping Condition</u>	<u>Remarks</u>
General	Good	N/A	Good	Facility secured by chain link fencing with locked gate. Records located at the facility.
Collection System	Unknown	N/A	Unknown	The WWTF appears to be experiencing I&I from the existing collection systems due to increased flows during rain events.
Lift Stations	Good	Good	Good	Elapsed time meters (ETMs) at the lift stations need to be evaluated for repair/replacement in order to determine which collection systems need to be evaluated for I&I issues/repairs.
RPZ	Good	Good	Good	None noted.
Surge/ Equalization Basins	Good	Good	Good	None noted.
Aeration Basins	Good	Good	Good	Good mixing and color.
Blower(s) & Air Piping	Good	Good	Good	Dual blower assemblies for WWTF are in operation and working properly. Air headers, valves and diffusers in good condition overall.
Clarifier	Good	Good	Good	Some pop-ups observed and effluent over weir was clear at time of site evaluations.
Cl <sub>2</sub> Contact Basin	Good	Good	Good	Effluent was clear.
Effluent Flow Meter	Good	Good	Good	None noted
Aerobic Digester	Good	Good	Good	None noted.
Lined Holding Pond	Good	N/A	Good	Vegetation and solids need to be removed from holding pond. Currently being by-passed to allow pond to dry out for maintenance.
Effluent Wet Well	Good	Good	Good	None noted.

### RECLAIMED/REUSE WATER LAND APPLICATION SYSTEM

Treated effluent is discharged to an on-site land application system consisting of the following:

<u>Component</u>	<u>Structure Condition</u>	<u>Equipment Condition</u>	<u>Piping Condition</u>	<u>Remarks</u>
Rapid Infiltration Basin	Good	Good	Good	Well maintained. Several Sprinkler heads were not operating and need to be evaluated for repair/replacement.



## TREATMENT EFFICIENCY

### TREATMENT UNITS

#### Flow Equalization

Raw sewage enters the equalization basin via force main from the lift station where it is agitated by diffused air. Once the sewage reaches the desired volume it is pumped into a splitter box with adjustable weir which allows the operator to direct the raw sewage to the aeration basin at the desired flow rate. Excess wastewater overflows back into the equalization basin.

#### Aeration

Raw sewage enters the aeration basins where it is mixed with activated sludge returning from the clarifier. The sewage is thoroughly agitated by diffused air bubbling up through the liquid, causing it to mix as well as to become oxidized. During this process, the raw sewage is absorbed by the activated sludge, transforming into activated sludge itself. Flow proceeds by gravity from the inlet point, through the tank system, and into the clarifier system.

#### Settling

Mixed liquor suspended solids entering the settling system enters through an opening into the stilling well in the settling tank. The stilling well allows the MLSS to move slowly to the bottom of the clarifier, where solids settle. The clear liquid rises on the opposite side of the baffle and is further filtered by a layer of biological sludge which is generally visible 4 to 5 feet below the surface in the final settling compartment. Clarified effluent then overflows the effluent weir, where it is collected and routed to the disinfection basin.

A scum baffle in front of the weir serves as a precaution against hydraulic surges which may carry solids over the weir up through the sludge blanket. Particles carried to the surface of the final tanks are removed by skimmers.

Concentrated sludge (return activated sludge) is removed from the bottom of the clarifier by an air lift pump. This sludge is normally piped to the aeration system, where it is mixed with the incoming raw influent. This sludge immediately begins attacking the raw sewage. These sludge lines operate continuously.

When plant solids need to be reduced, concentrated sludge (waste activated sludge) from the clarifier's air lift pump is routed to the sludge digester, rather than to the aeration system. A pair of valves on the return sludge line allows this redirection.

#### Disinfection

Disinfection of the clarified effluent by hypochlorination is made by the addition of a sodium hypochlorite solution to the entrance of the chlorine contact basin. This is followed by sufficient time in the chlorine contact basin to reduce pathogen content to required levels.

#### Land Application System

Disinfected plant effluent flows via two alternating dosing pumps from the chlorine contact basin to a distribution box within the rapid infiltration basin system consisting of two percolation/evaporation ponds. Flow is diverted to the ponds by plugging either outfall piping within the distribution box.

#### Sludge Digestion

Waste (excess) sludge is routed to the aerobic sludge digester, for volume reduction by long-term aeration. When sludge must be removed, it is accomplished by a scavenger truck, then lime stabilized and land applied.

**TREATMENT LEVELS**

The treatment level is monitored for the following permitted limitations:

<u>Parameter</u>	<u>Permitted Levels</u>	<u>Frequency</u>
<u>WWTF</u>		
Flow	0.099 MGD AADF	Effluent Flow Meter / 5 Days/Week
CBOD <sub>5</sub> (influent)	Report annually	Grab annually
CBOD <sub>5</sub> (effluent)	60.0 mg/L single maximum 45.0 (mg/L) weekly average 30.0 (mg/L) monthly average 20 mg/L annual average	Grab monthly
TSS (influent)	Report annually	Grab annually
TSS (effluent)	60 mg/L single maximum 45.0 (mg/L) weekly average 30.0 (mg/L) monthly average 20 mg/L annual average	Grab monthly
Fecal coliform (effluent)	200/100 mL annual average 200/100 mL monthly geometric mean 800/100 mL maximum sample	Grab monthly
TRC (effluent)	0.5 mg/L any one sample (minimum)	Grab/ 5 days per week
Nitrate, Total as N	12.0 mg/L any one sample (maximum)	Grab Annually
Nitrogen, Total (Final)	3.0 (mg/L) Annual Average Report (mg/L) Monthly Average	Monthly
Phosphorus, Total (as P)	Report (mg/L) Annual Average Report (mg/L) Monthly Average	Monthly
pH	6.00-8.50	Grab/ 5 days per week

**INFLUENT / EFFLUENT MONITORING**

In accordance with the current facility permit, flow measurements are to be taken from the effluent V-notch weir and totalizer flow meter (FLW-1) located at the chlorine contact chamber of WWTF. The Effluent V-notch Weir and Totalizing Flow Meter are to be calibrated at least annually.

Influent samples (INF-1) (CBOD<sub>5</sub> and TSS) are taken annually at the headworks of the treatment plant and do not include return activated sludge

Effluent samples (EFA-1) are taken monthly after disinfection and prior to discharge to the evaporation/percolation pond.

**OVERALL**

During the periods reviewed (January 2017 – July 2021) by DNM Engineering & Associates, Inc., the effluent parameters have met the flow and effluent requirements under the current operating permit with the exception of the following:

- May 2017: Fecal Coliform concentration exceeded the single sample maximum concentration of 800/100mL (8,100/100mL).
- May 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).

## Landfair Wastewater Treatment Facility

- June 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- July 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Aug. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Sept. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Oct. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Nov. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.25/100mL).
- Dec. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.25/100mL).
- Jan. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Feb. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Mar. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Apr. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Aug. 2018: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (34.0 mg/L).
- Jan. 2019: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- July 2019: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- Jan. 2020: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- Feb. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (36.0 mg/L).
- Mar. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (117.0 mg/L).
- Mar. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.5 mg/L).
- Apr. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.67 mg/L).
- May 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (68.0 mg/L).
- May 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (29.08 mg/L).
- June 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (30.08 mg/L).

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- July 2020: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- July 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (36.0 mg/L).
- July 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (31.92 mg/L).
- Aug. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (80.0 mg/L).
- Aug. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.5 mg/L).
- Sept. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (38.08 mg/L).
- Oct. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Nov. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.67 mg/L).
- Nov. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Dec. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.59 mg/L).
- Dec. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Jan. 2021: Annual influent samples for CBOD<sub>5</sub>: TSS; Nitrogen, Nitrate, Total (as N) were not performed.
- Jan. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.20 mg/L).
- Jan. 2021: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (34.0 mg/L).
- Jan. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (40.17 mg/L).
- Feb. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.32 mg/L).
- Feb. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (38.83 mg/L).
- Mar. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.78 mg/L).
- Mar. 2021: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (53.0 mg/L).
- Mar. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (33.50 mg/L).
- Apr. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.72 mg/L).
- Apr. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (32.83 mg/L).

## Landfair Wastewater Treatment Facility

- May 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (13.51 mg/L).
- May 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (28.71 mg/L).
- June 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.43 mg/L).
- June 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (27.38 mg/L).
- July 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (9.35 mg/L).
- July 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.54 mg/L).
- Aug. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.33 mg/L).
- Sept. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.39 mg/L).
- Oct. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.52 mg/L).

## PERFORMANCE TRENDS

### GENERAL

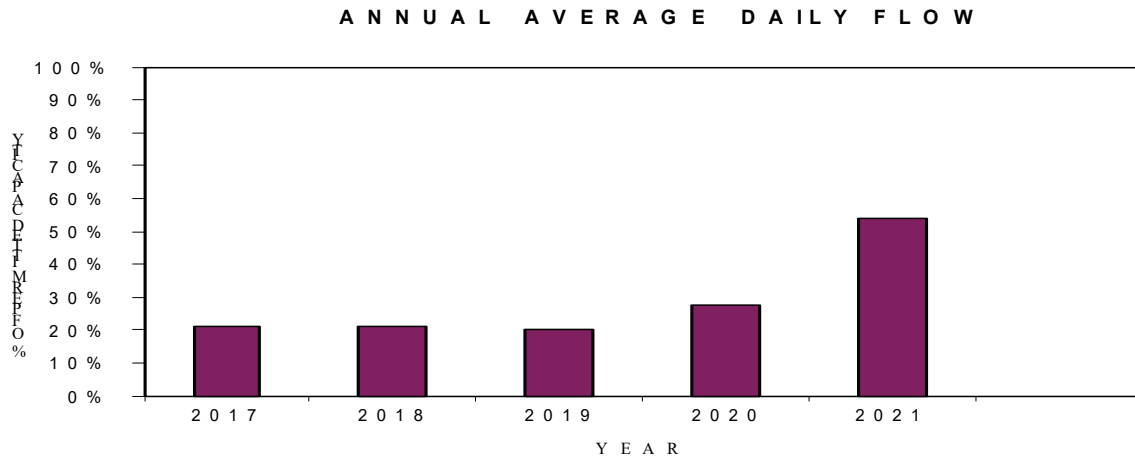
A review of the Monthly Discharge Monitoring Reports (DMRs) and Operators Log shows no indication of any untreated bypasses and discharges or overflows from the collection system or the treatment facilities.

### INFLUENT

#### Annual Average Daily Flows

The following information is taken from Monthly Discharge Monitoring Reports.

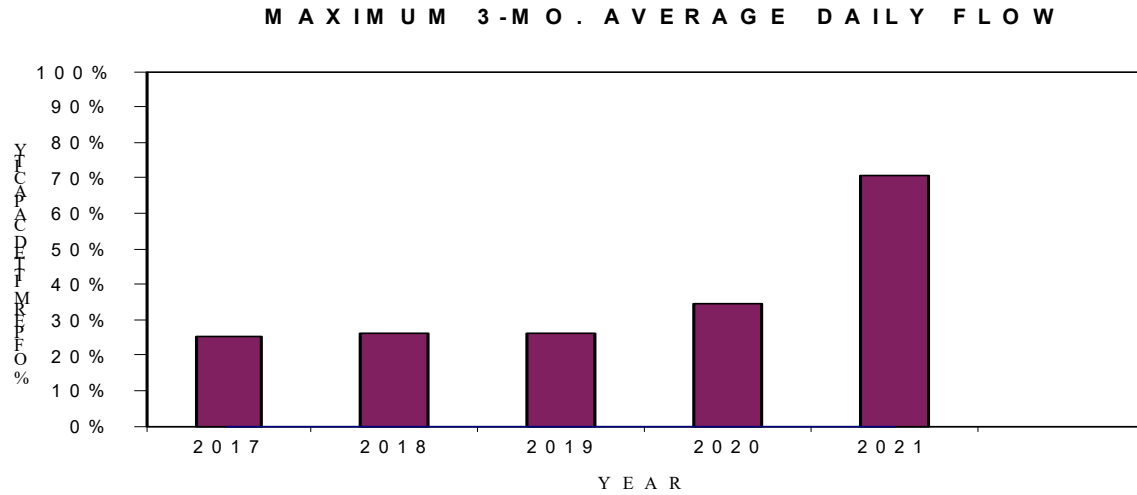
YEAR	PERCENTAGE OF PERMITTED CAPACITY	AVERAGED DAILY FLOW (MGD)
2017	21%	0.021
2018	21%	0.0209
2019	20%	0.020
2020	28%	0.0273
2021	54%	0.053



**Maximum Three-Month Average Daily Flows**

The following information is taken from Monthly Discharge Monitoring Reports.

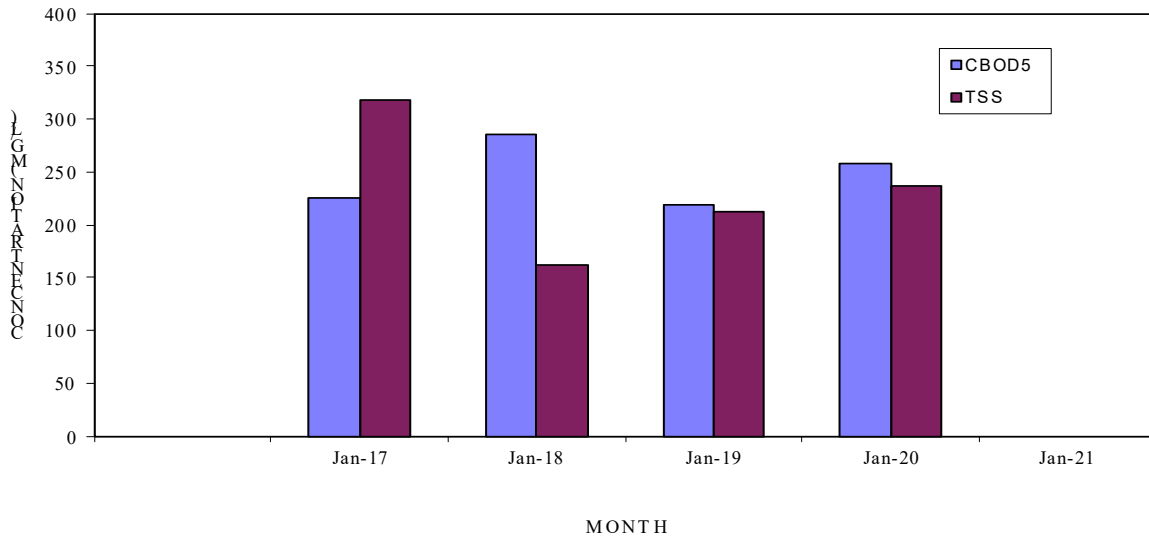
Y E A R	P E R C E N T A G E O F P E R M I T T E D C A P A C I T Y	M A X I M U M 3 - M A D F F L O W ( M G D )
2 0 1 7	2 5 %	0 . 0 2 5
2 0 1 8	2 6 %	0 . 0 2 6
2 0 1 9	2 6 %	0 . 0 2 6
2 0 2 0	3 4 %	0 . 0 3 4
2 0 2 1	7 1 %	0 . 0 7 0



**CBOD<sub>5</sub> (Influent), TSS (Influent), Grab Samples, January 2017 – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-17	225	318
Jan-18	285	162
Jan-19	218	212
Jan-20	257	236
Jan-21		
<b>Average</b>	<b>246.3</b>	<b>232</b>



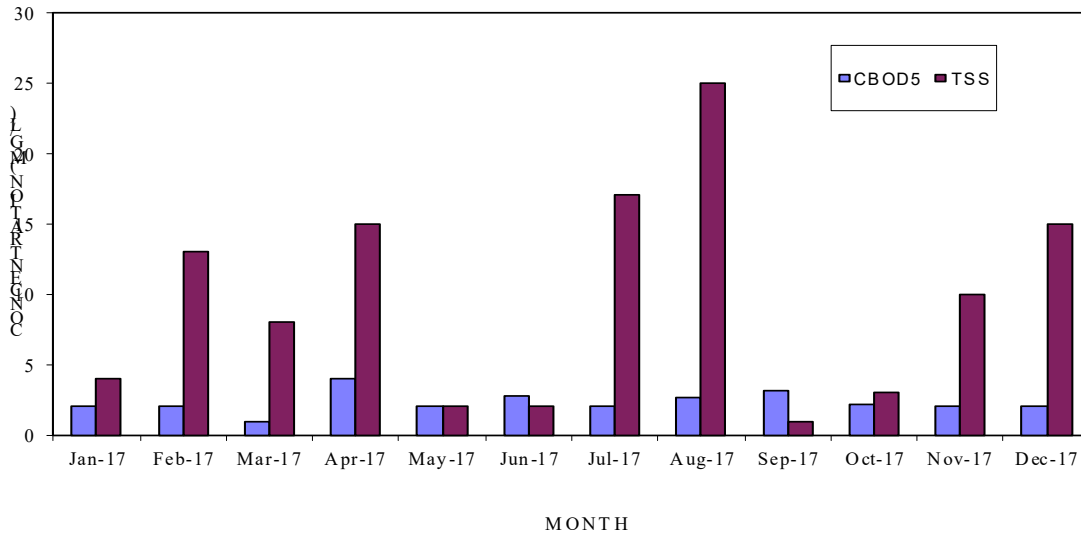


**EFFLUENT**

**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Monthly Average, January – December 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

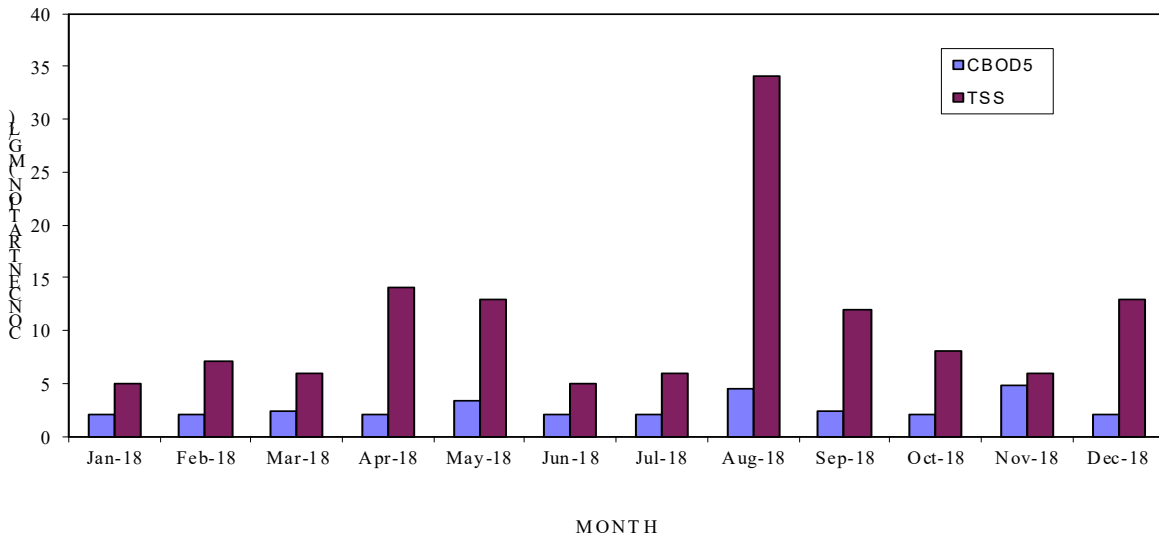
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-17	2.00	4.00
Feb-17	2.00	13.00
Mar-17	1.00	8.00
Apr-17	4.00	15.00
May-17	2.00	2.00
Jun-17	2.80	2.00
Jul-17	2.00	17.00
Aug-17	2.70	25.00
Sep-17	3.20	1.00
Oct-17	2.20	3.00
Nov-17	2.00	10.00
Dec-17	2.00	15.00
<b>Average</b>	<b>2.33</b>	<b>9.58</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Monthly Average, January – December 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

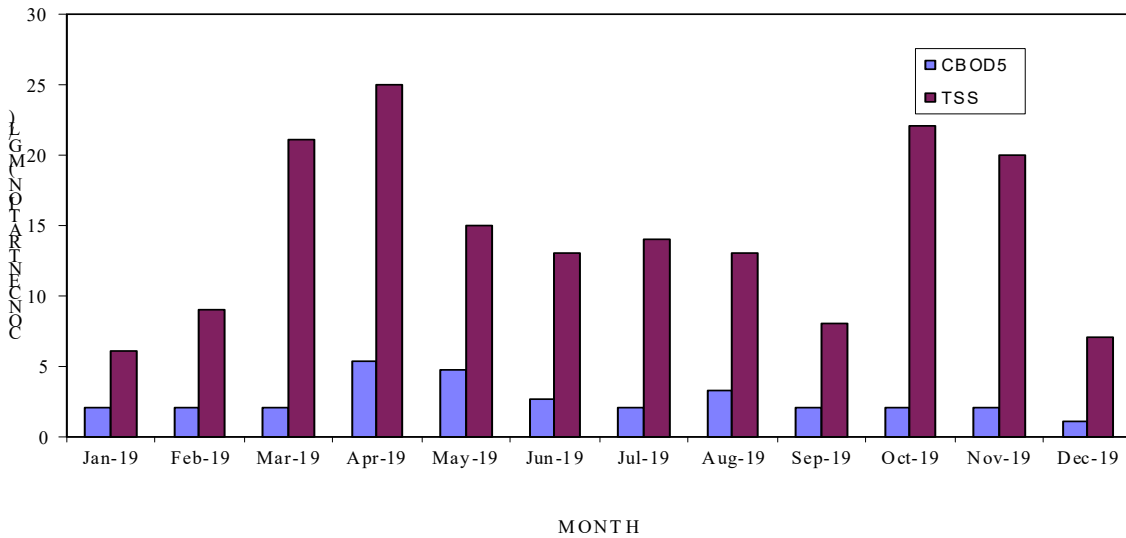
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-18	2.00	5.00
Feb-18	2.00	7.00
Mar-18	2.40	6.00
Apr-18	2.00	14.00
May-18	3.30	13.00
Jun-18	2.00	5.00
Jul-18	2.00	6.00
Aug-18	4.40	34.00
Sep-18	2.30	12.00
Oct-18	2.00	8.00
Nov-18	4.80	6.00
Dec-18	2.00	13.00
<b>Average</b>	<b>2.60</b>	<b>10.75</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Monthly Average, January – December 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

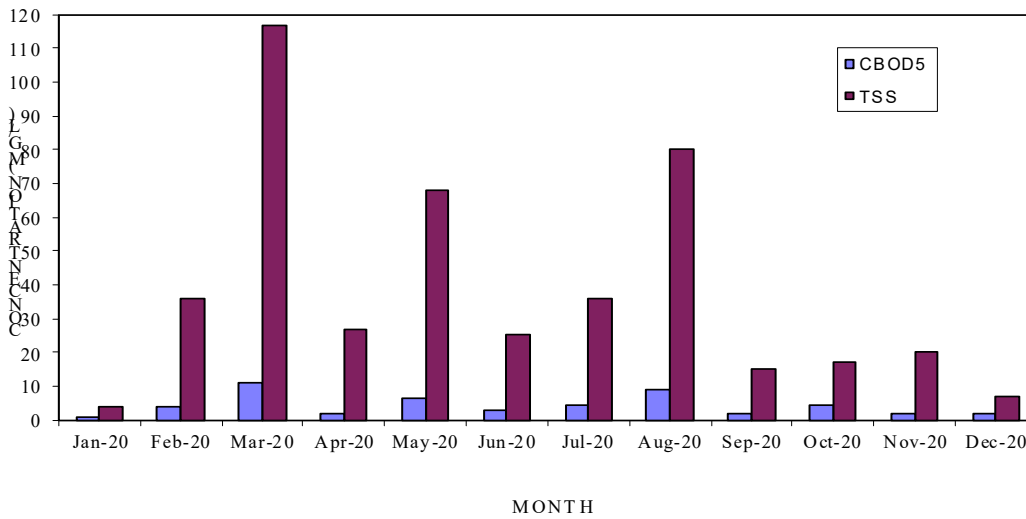
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-19	2.00	6.00
Feb-19	2.00	9.00
Mar-19	2.00	21.00
Apr-19	5.30	25.00
May-19	4.70	15.00
Jun-19	2.60	13.00
Jul-19	2.00	14.00
Aug-19	3.20	13.00
Sep-19	2.00	8.00
Oct-19	2.00	22.00
Nov-19	2.00	20.00
Dec-19	1.00	7.00
<b>Average</b>	<b>2.57</b>	<b>14.42</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Monthly Average, January – December 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

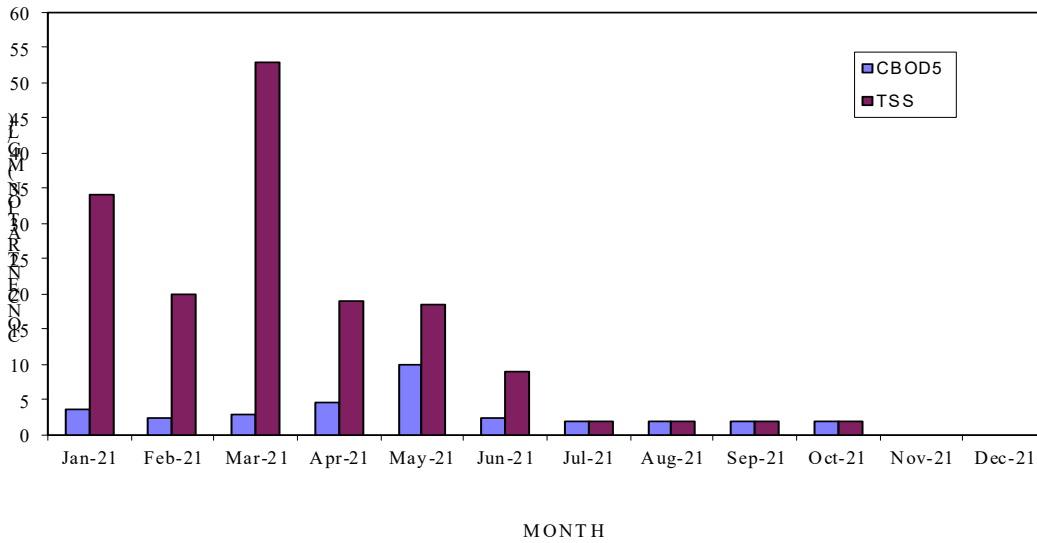
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-20	1.00	4.00
Feb-20	3.80	36.00
Mar-20	11.00	117.00
Apr-20	2.00	27.00
May-20	6.30	68.00
Jun-20	2.70	25.00
Jul-20	4.40	36.00
Aug-20	9.00	80.00
Sep-20	2.00	15.00
Oct-20	4.20	17.00
Nov-20	2.00	20.00
Dec-20	2.00	7.00
<b>Average</b>	<b>4.20</b>	<b>37.67</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Monthly Average, January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

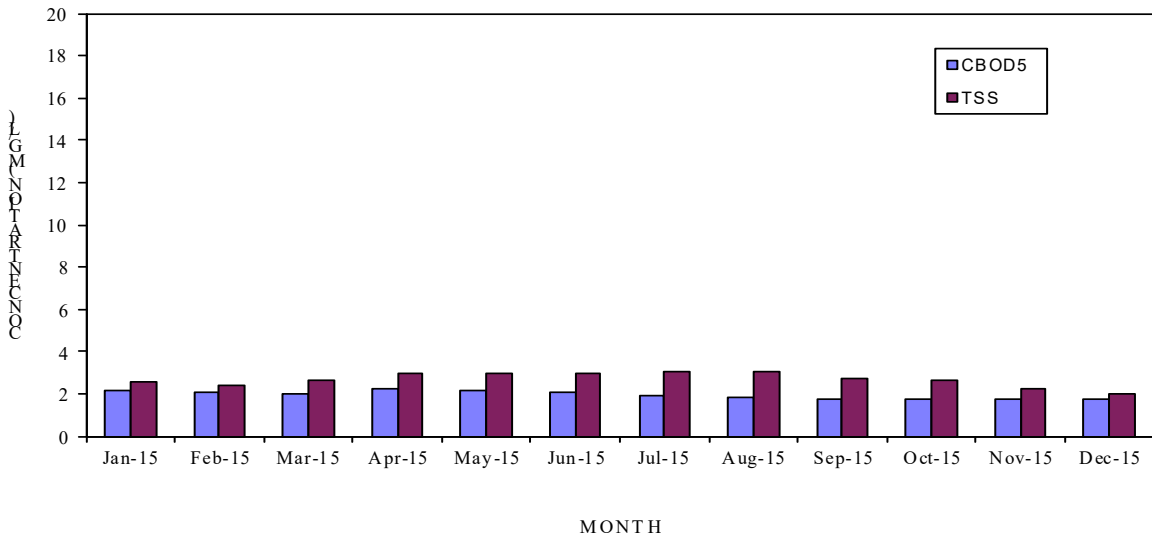
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-21	3.70	34.00
Feb-21	2.40	20.00
Mar-21	3.00	53.00
Apr-21	4.50	19.00
May-21	10.00	18.50
Jun-21	2.40	9.00
Jul-21	2.00	2.00
Aug-21	2.00	2.00
Sep-21	2.00	2.00
Oct-21	2.00	2.00
Nov-21		
Dec-21		
<b>Average</b>	<b>3.40</b>	<b>16.15</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Rolling Annual Average, January – Dec. 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

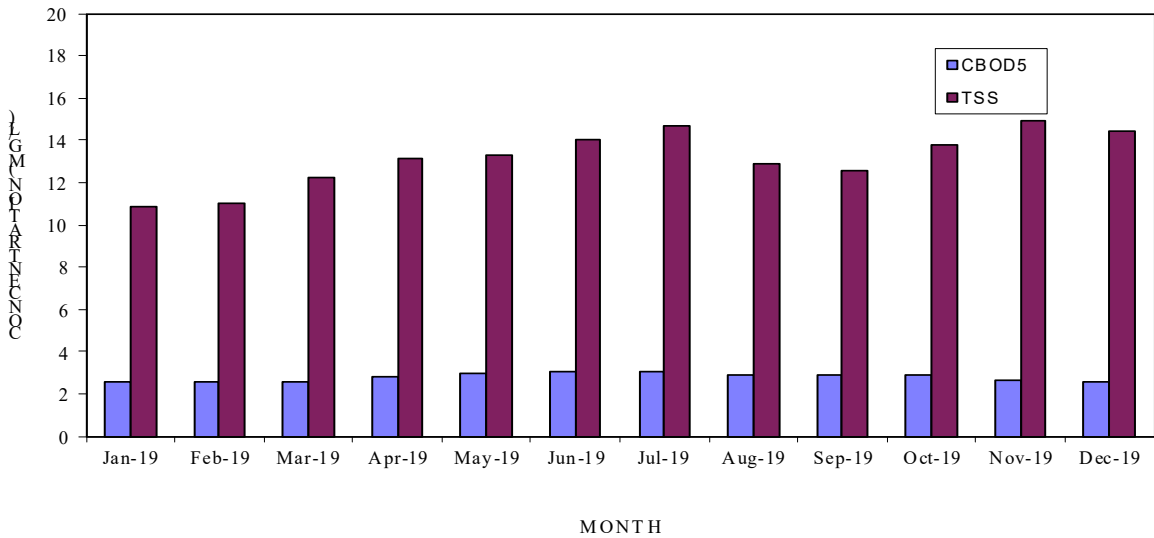
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-15	2.17	2.60
Feb-15	2.08	2.38
Mar-15	2.00	2.65
Apr-15	2.25	2.97
May-15	2.17	2.97
Jun-15	2.08	2.97
Jul-15	1.92	3.08
Aug-15	1.83	3.08
Sep-15	1.75	2.69
Oct-15	1.75	2.64
Nov-15	1.75	2.27
Dec-15	1.75	1.96
<b>Average</b>	<b>1.96</b>	<b>2.69</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Rolling Annual Average, January – Dec. 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

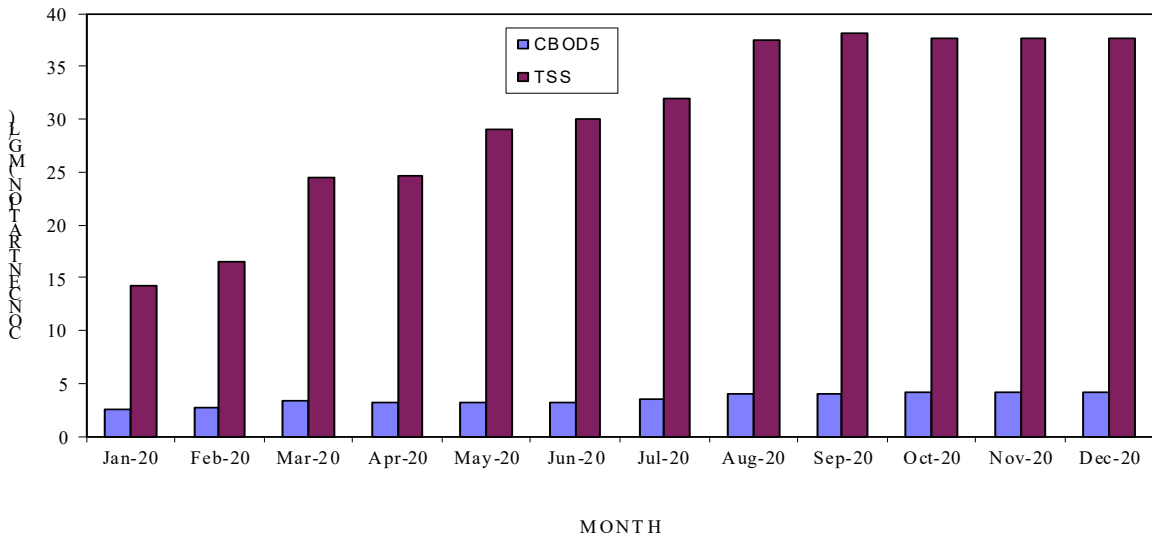
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-19	2.60	10.83
Feb-19	2.60	11.00
Mar-19	2.57	12.25
Apr-19	2.84	13.17
May-19	2.96	13.33
Jun-19	3.01	14.00
Jul-19	3.01	14.67
Aug-19	2.91	12.92
Sep-19	2.88	12.58
Oct-19	2.88	13.75
Nov-19	2.65	14.92
Dec-19	2.57	14.42
<b>Average</b>	<b>2.79</b>	<b>13.15</b>



**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Rolling Annual Average, January – Dec. 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-20	2.48	14.25
Feb-20	2.63	16.50
Mar-20	3.38	24.50
Apr-20	3.11	24.67
May-20	3.24	29.08
Jun-20	3.25	30.08
Jul-20	3.45	31.92
Aug-20	3.93	37.50
Sep-20	3.93	38.08
Oct-20	4.12	37.67
Nov-20	4.12	37.67
Dec-20	4.20	37.67
<b>Average</b>	<b>3.49</b>	<b>29.97</b>

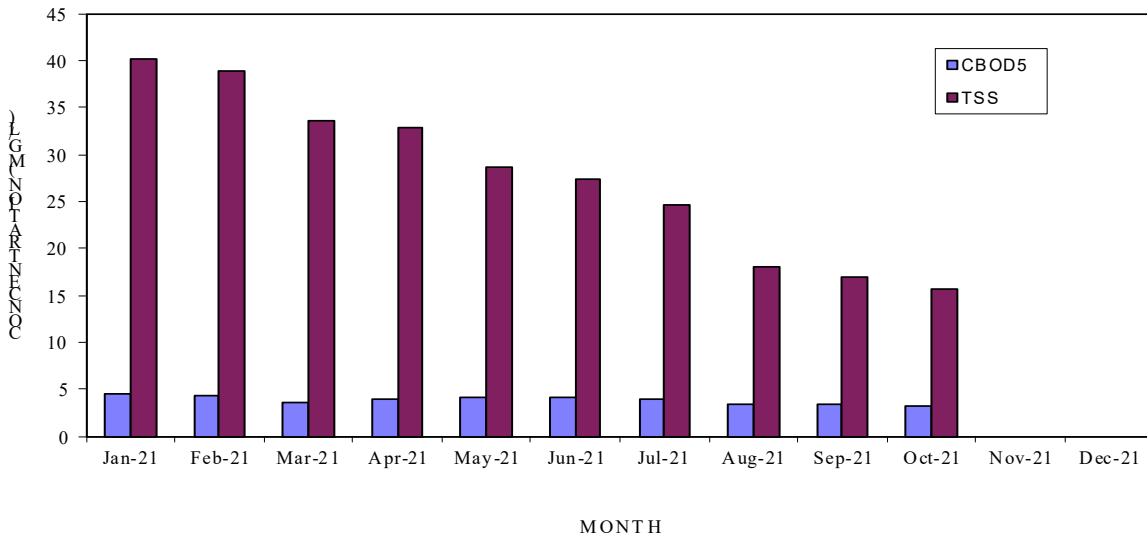




**CBOD<sub>5</sub> (Effluent), TSS (Effluent), Rolling Annual Average, January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

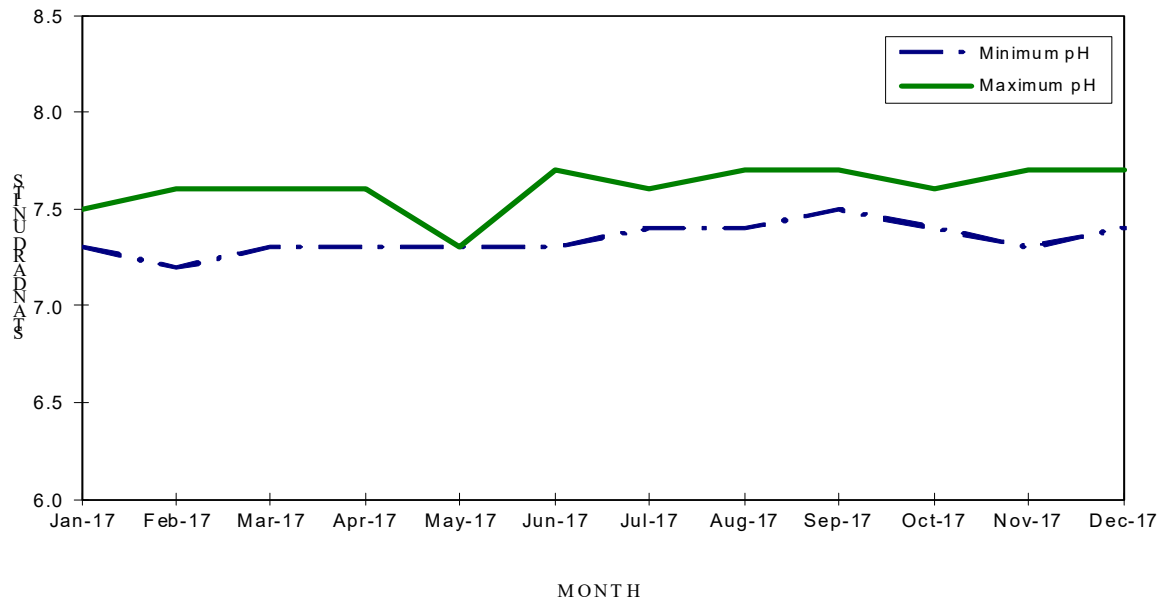
	CBOD <sub>5</sub> mg/L	TSS mg/L
Jan-21	4.43	40.17
Feb-21	4.31	38.83
Mar-21	3.64	33.50
Apr-21	3.85	32.83
May-21	4.16	28.71
Jun-21	4.13	27.38
Jul-21	3.93	24.54
Aug-21	3.35	18.04
Sep-21	3.35	16.96
Oct-21	3.17	15.71
Nov-21		
Dec-21		
<b>Average</b>	<b>3.83</b>	<b>27.67</b>



**pH Variation, January – December 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

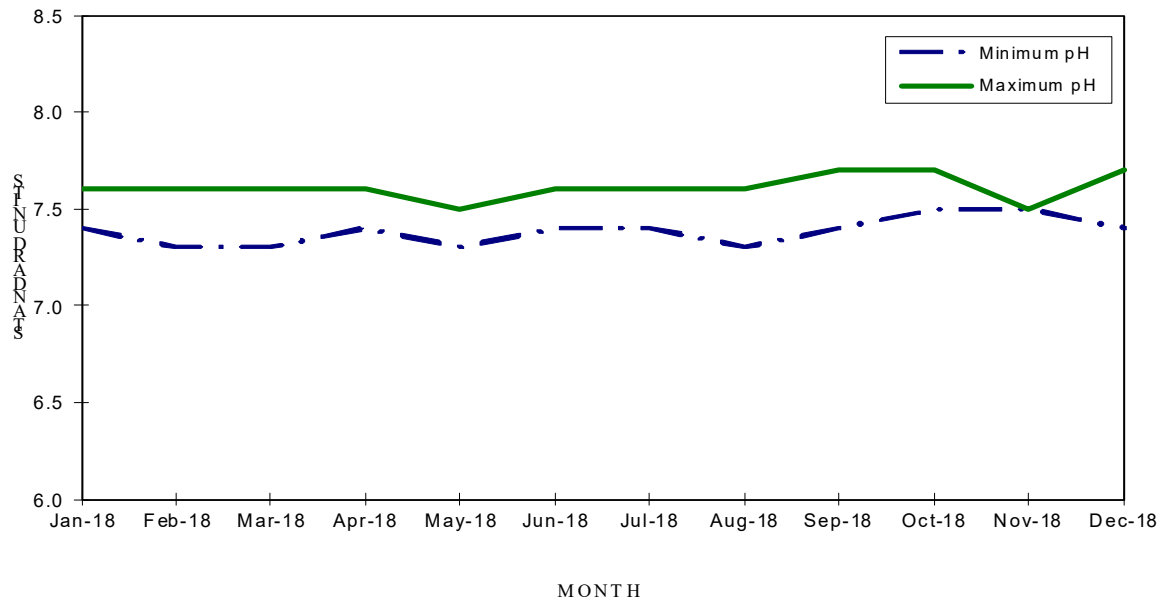
	Minimum Std. Units	Maximum Std. Units
Jan-17	7.3	7.5
Feb-17	7.2	7.6
Mar-17	7.3	7.6
Apr-17	7.3	7.6
May-17	7.3	7.3
Jun-17	7.3	7.7
Jul-17	7.4	7.6
Aug-17	7.4	7.7
Sep-17	7.5	7.7
Oct-17	7.4	7.6
Nov-17	7.3	7.7
Dec-17	7.4	7.7
<b>Average</b>	<b>7.3</b>	<b>7.6</b>



**pH Variation, January – December 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

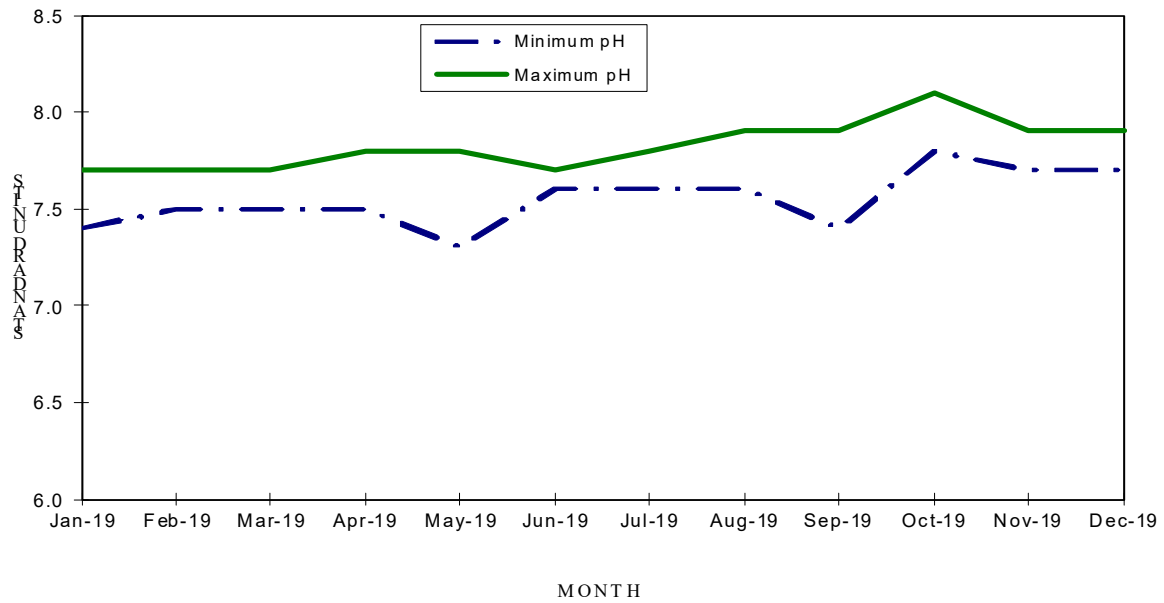
	Minimum Std. Units	Maximum Std. Units
Jan-18	7.4	7.6
Feb-18	7.3	7.6
Mar-18	7.3	7.6
Apr-18	7.4	7.6
May-18	7.3	7.5
Jun-18	7.4	7.6
Jul-18	7.4	7.6
Aug-18	7.3	7.6
Sep-18	7.4	7.7
Oct-18	7.5	7.7
Nov-18	7.5	7.5
Dec-18	7.4	7.7
<b>Average</b>	<b>7.4</b>	<b>7.6</b>



**pH Variation, January – December 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

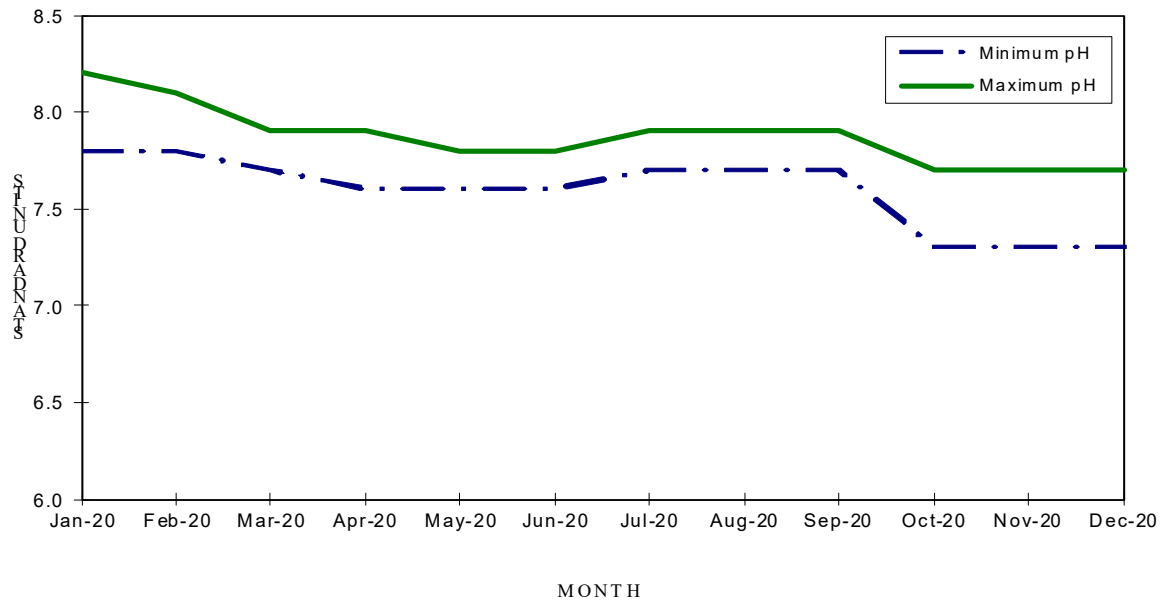
	Minimum Std. Units	Maximum Std. Units
Jan-19	7.4	7.7
Feb-19	7.5	7.7
Mar-19	7.5	7.7
Apr-19	7.5	7.8
May-19	7.3	7.8
Jun-19	7.6	7.7
Jul-19	7.6	7.8
Aug-19	7.6	7.9
Sep-19	7.4	7.9
Oct-19	7.8	8.1
Nov-19	7.7	7.9
Dec-19	7.7	7.9
<b>Average</b>	<b>7.6</b>	<b>7.8</b>



**pH Variation, January – December 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

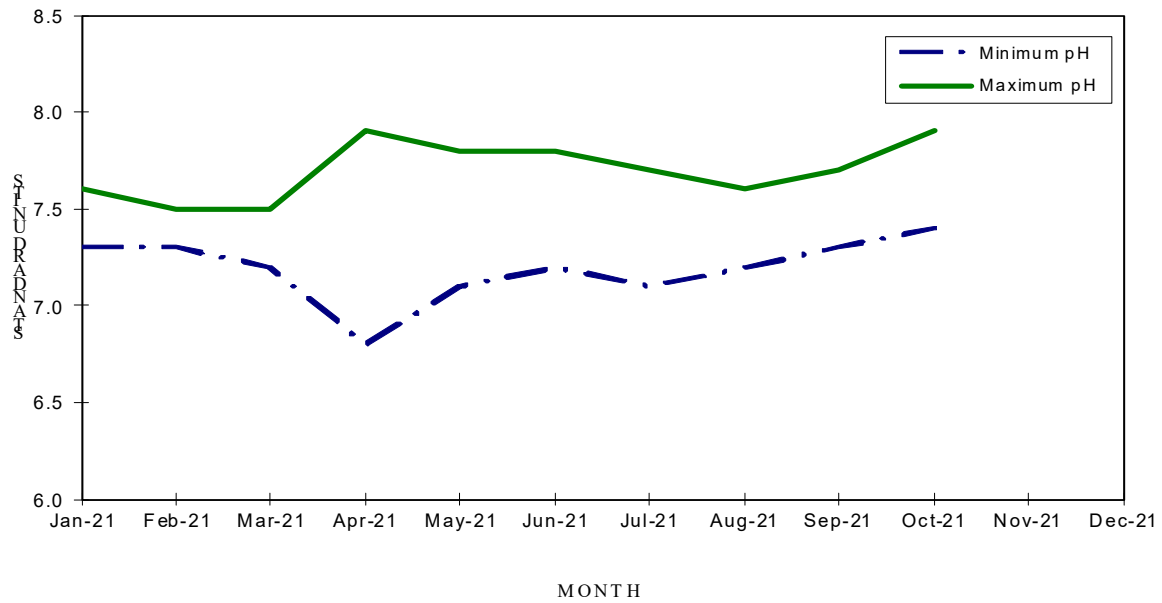
	Minimum Std. Units	Maximum Std. Units
Jan-20	7.8	8.2
Feb-20	7.8	8.1
Mar-20	7.7	7.9
Apr-20	7.6	7.9
May-20	7.6	7.8
Jun-20	7.6	7.8
Jul-20	7.7	7.9
Aug-20	7.7	7.9
Sep-20	7.7	7.9
Oct-20	7.3	7.7
Nov-20	7.3	7.7
Dec-20	7.3	7.7
<b>Average</b>	<b>7.6</b>	<b>7.9</b>



**pH Variation, January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

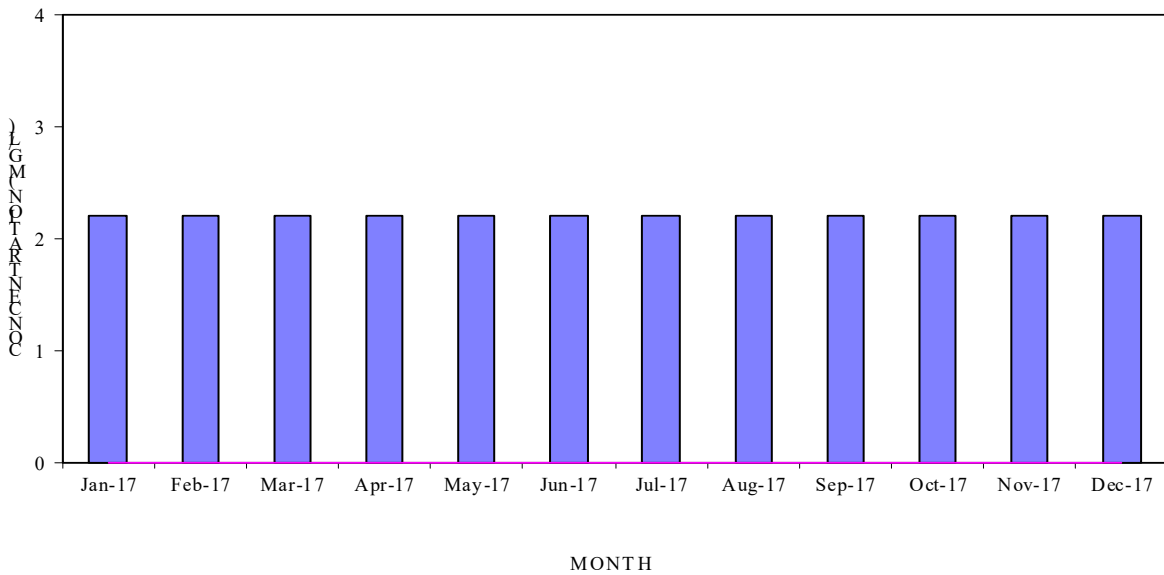
	Minimum Std. Units	Maximum Std. Units
Jan-21	7.3	7.6
Feb-21	7.3	7.5
Mar-21	7.2	7.5
Apr-21	6.8	7.9
May-21	7.1	7.8
Jun-21	7.2	7.8
Jul-21	7.1	7.7
Aug-21	7.2	7.6
Sep-21	7.3	7.7
Oct-21	7.4	7.9
Nov-21		
Dec-21		
<b>Average</b>	<b>7.2</b>	<b>7.7</b>



**Total Residual Chlorine (Effluent), Monthly Minimum January – December 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

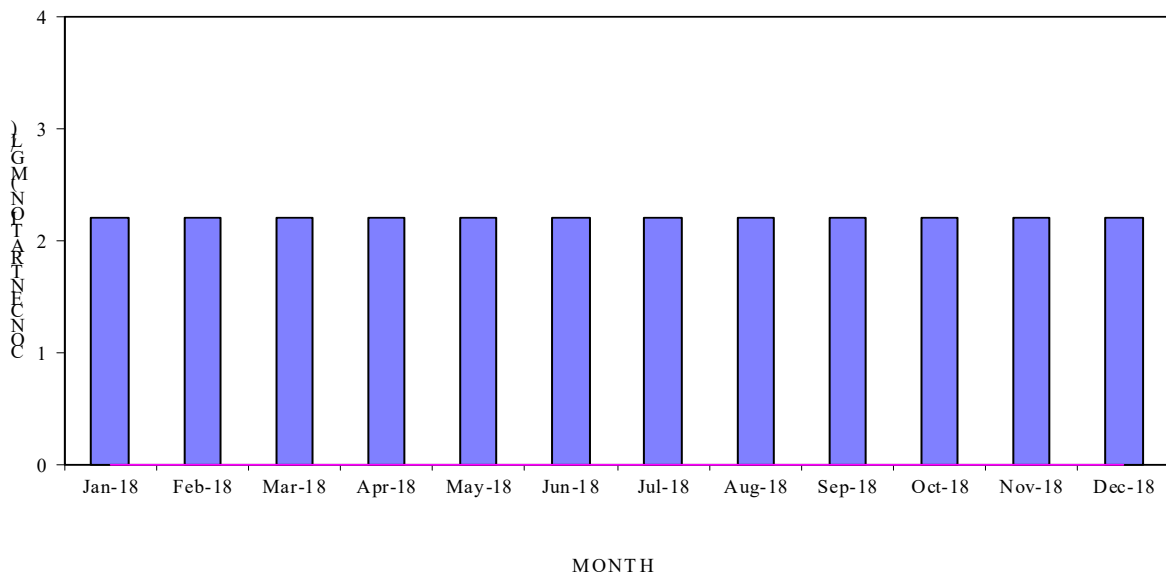
	TRC mg/L
Jan-17	2.2
Feb-17	2.2
Mar-17	2.2
Apr-17	2.2
May-17	2.2
Jun-17	2.2
Jul-17	2.2
Aug-17	2.2
Sep-17	2.2
Oct-17	2.2
Nov-17	2.2
Dec-17	2.2



**Total Residual Chlorine (Effluent), Monthly Minimum January – December 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

	TRC mg/L
Jan-18	2.2
Feb-18	2.2
Mar-18	2.2
Apr-18	2.2
May-18	2.2
Jun-18	2.2
Jul-18	2.2
Aug-18	2.2
Sep-18	2.2
Oct-18	2.2
Nov-18	2.2
Dec-18	2.2

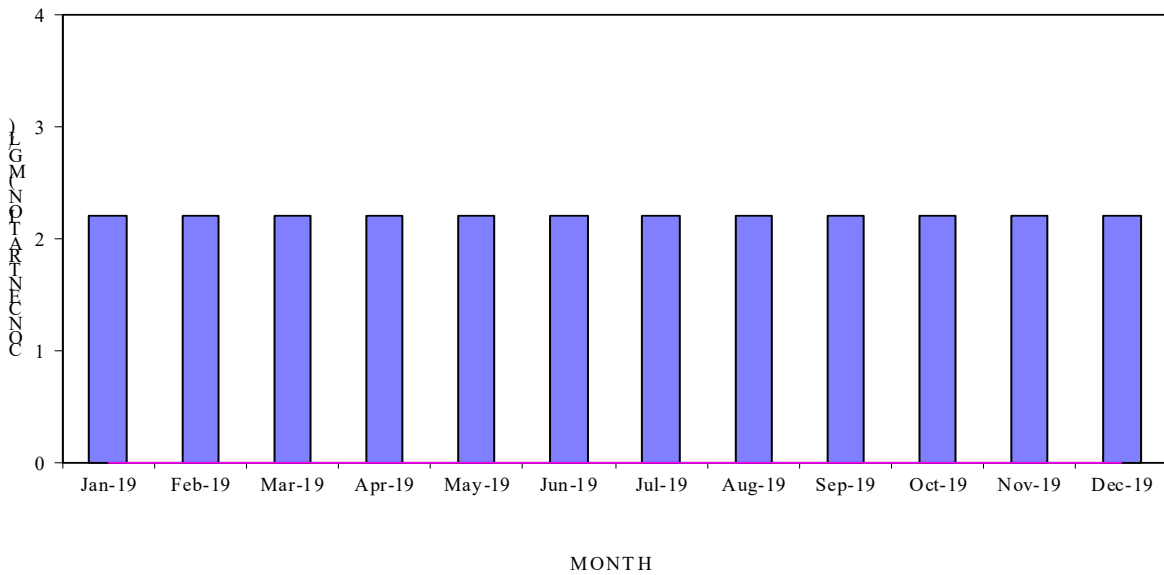




**Total Residual Chlorine (Effluent), Monthly Minimum January – December 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

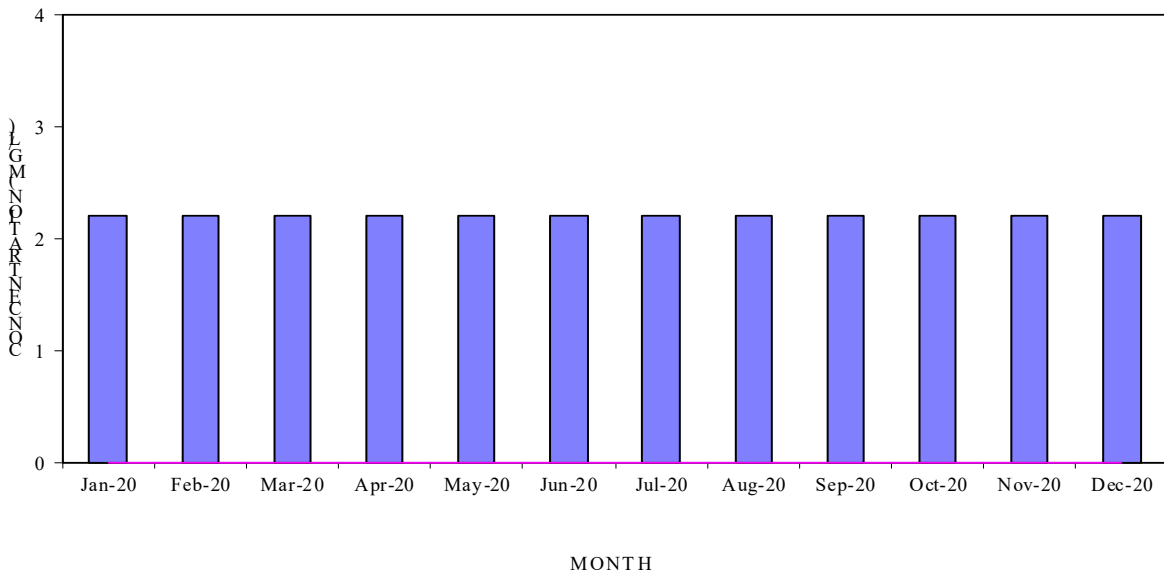
	TRC mg/L
Jan-19	2.2
Feb-19	2.2
Mar-19	2.2
Apr-19	2.2
May-19	2.2
Jun-19	2.2
Jul-19	2.2
Aug-19	2.2
Sep-19	2.2
Oct-19	2.2
Nov-19	2.2
Dec-19	2.2



**Total Residual Chlorine (Effluent), Monthly Minimum January – December 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

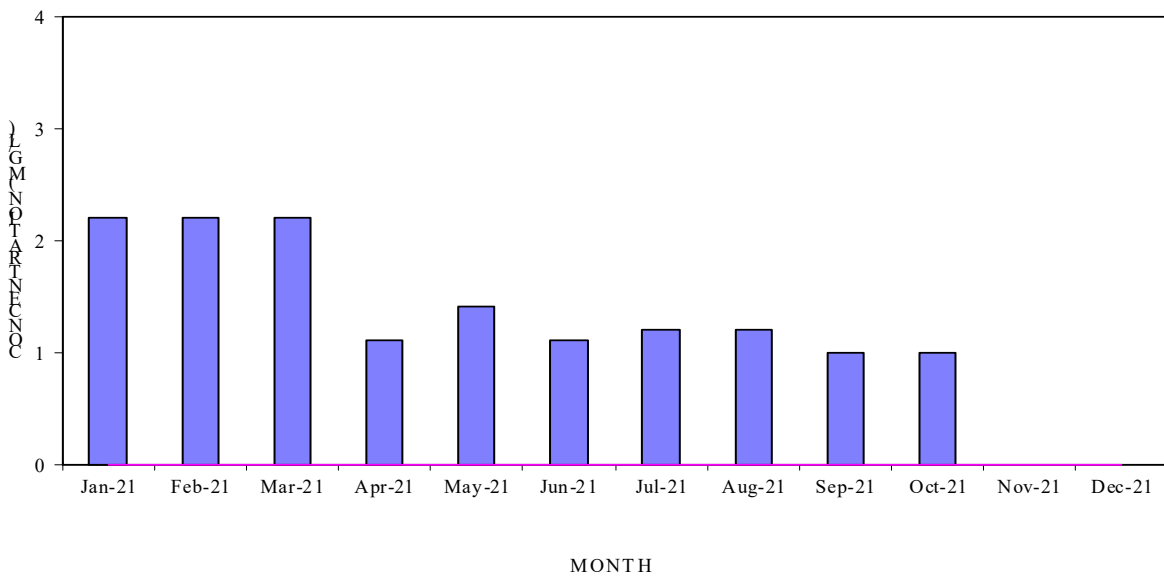
	TRC mg/L
Jan-20	2.2
Feb-20	2.2
Mar-20	2.2
Apr-20	2.2
May-20	2.2
Jun-20	2.2
Jul-20	2.2
Aug-20	2.2
Sep-20	2.2
Oct-20	2.2
Nov-20	2.2
Dec-20	2.2



**Total Residual Chlorine (Effluent), Monthly Minimum January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

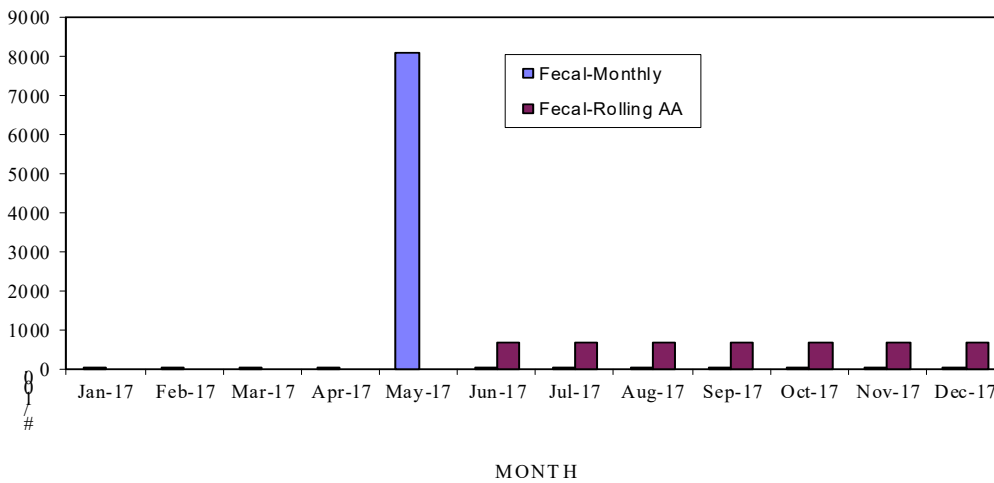
	TRC mg/L
Jan-21	2.2
Feb-21	2.2
Mar-21	2.2
Apr-21	1.1
May-21	1.4
Jun-21	1.1
Jul-21	1.2
Aug-21	1.2
Sep-21	1.0
Oct-21	1.0
Nov-21	
Dec-21	



**Fecal Coliform (Effluent), Monthly & Rolling Annual Average January – Dec. 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

	Monthly	Rolling AA
	Fecal #/100	Fecal #/100
Jan-17	1.00	
Feb-17	1.00	
Mar-17	1.00	
Apr-17	1.00	
May-17	8100	
Jun-17	1.00	676.17
Jul-17	1.00	676.17
Aug-17	3.00	676.17
Sep-17	1.00	676.17
Oct-17	2.00	676.17
Nov-17	1.00	676.25
Dec-17	1.00	676.25

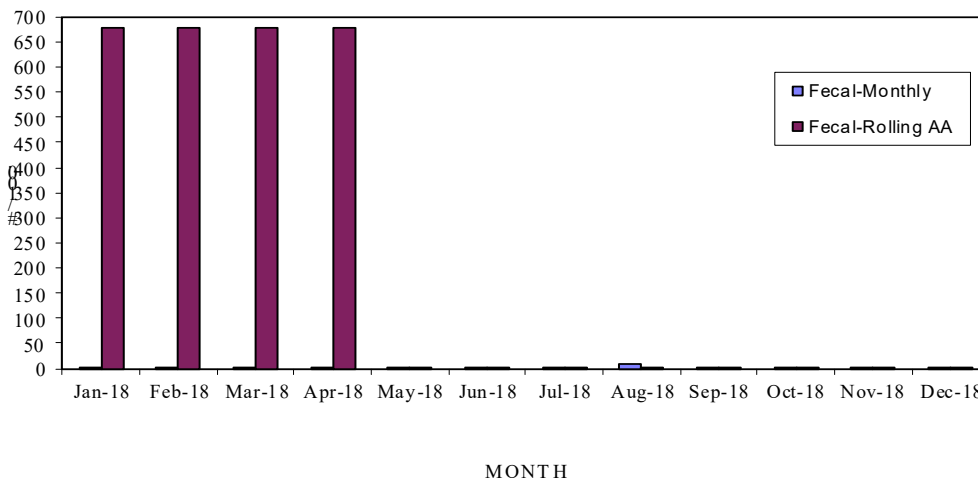


Landfair Wastewater Treatment Facility

**Fecal Coliform (Effluent), Monthly & Rolling Annual Average January – Dec. 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

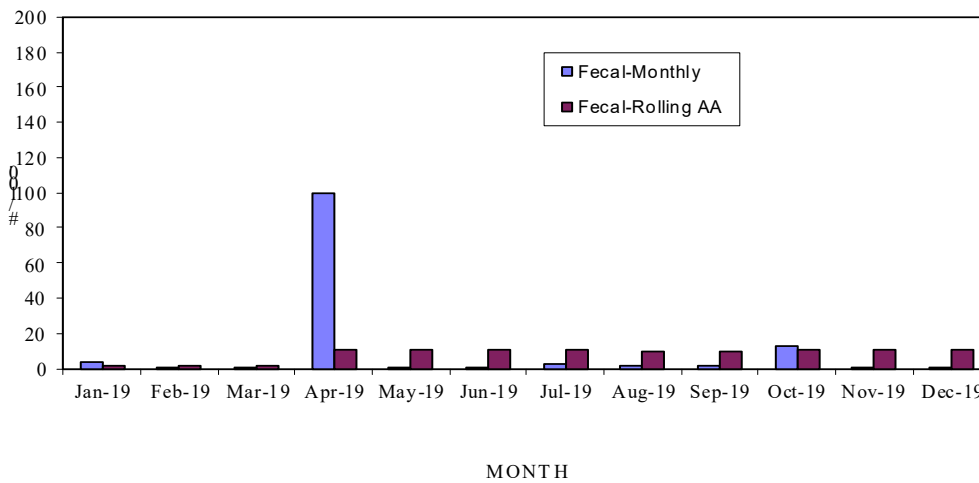
	Monthly	Rolling AA
	Fecal #/100	Fecal #/100
Jan-18	1.0	676.17
Feb-18	1.0	676.17
Mar-18	1.0	676.17
Apr-18	1.0	676.17
May-18	1.0	1.25
Jun-18	1.0	1.25
Jul-18	1.0	1.25
Aug-18	10.0	1.83
Sep-18	1.0	1.83
Oct-18	1.0	1.75
Nov-18	1.0	1.75
Dec-18	1.0	1.75



**Fecal Coliform (Effluent), Monthly & Rolling Annual Average January – Dec. 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

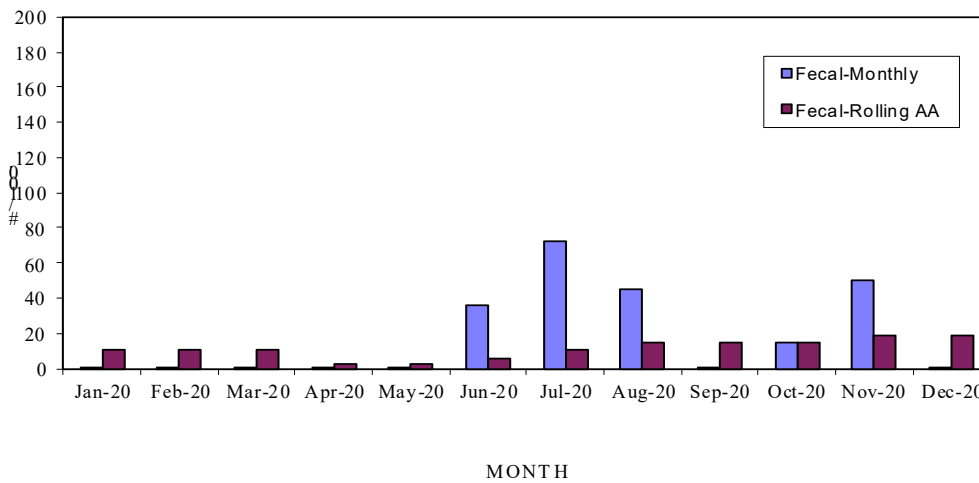
	Monthly	Rolling AA
	Fecal #/100	Fecal #/100
Jan-19	4.0	2.00
Feb-19	1.0	2.00
Mar-19	1.0	2.00
Apr-19	100.0	10.25
May-19	1.0	10.25
Jun-19	1.0	10.25
Jul-19	3.0	10.42
Aug-19	2.0	9.75
Sep-19	2.0	9.83
Oct-19	13.0	10.83
Nov-19	1.0	10.83
Dec-19	1.0	10.83



**Fecal Coliform (Effluent), Monthly & Rolling Annual Average January – Dec. 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

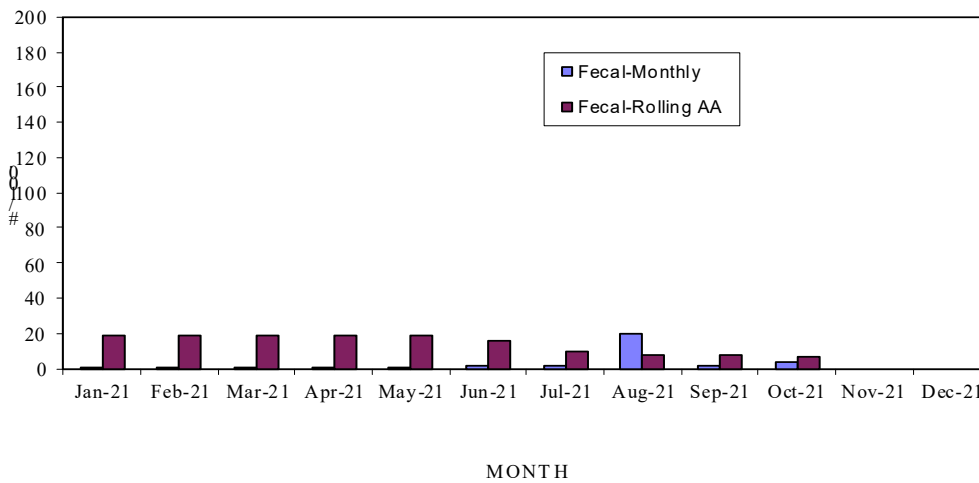
	Monthly	Rolling AA
	Fecal #/100	Fecal #/100
Jan-20	1.0	10.58
Feb-20	1.0	10.58
Mar-20	1.0	10.58
Apr-20	1.0	2.33
May-20	1.0	2.33
Jun-20	36.0	5.25
Jul-20	72.0	11.00
Aug-20	45.0	14.58
Sep-20	1.0	14.50
Oct-20	15.0	14.67
Nov-20	50.0	18.75
Dec-20	1.0	18.75



**Fecal Coliform (Effluent), Monthly & Rolling Annual Average January – October 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

	Monthly	Rolling AA
	Fecal #/100	Fecal #/100
Jan-21	1.0	18.75
Feb-21	1.0	18.75
Mar-21	1.0	18.75
Apr-21	1.0	18.75
May-21	1.0	18.75
Jun-21	2.0	15.92
Jul-21	2.0	10.08
Aug-21	20.0	8.00
Sep-21	2.0	8.08
Oct-21	4.0	7.17
Nov-21		
Dec-21		

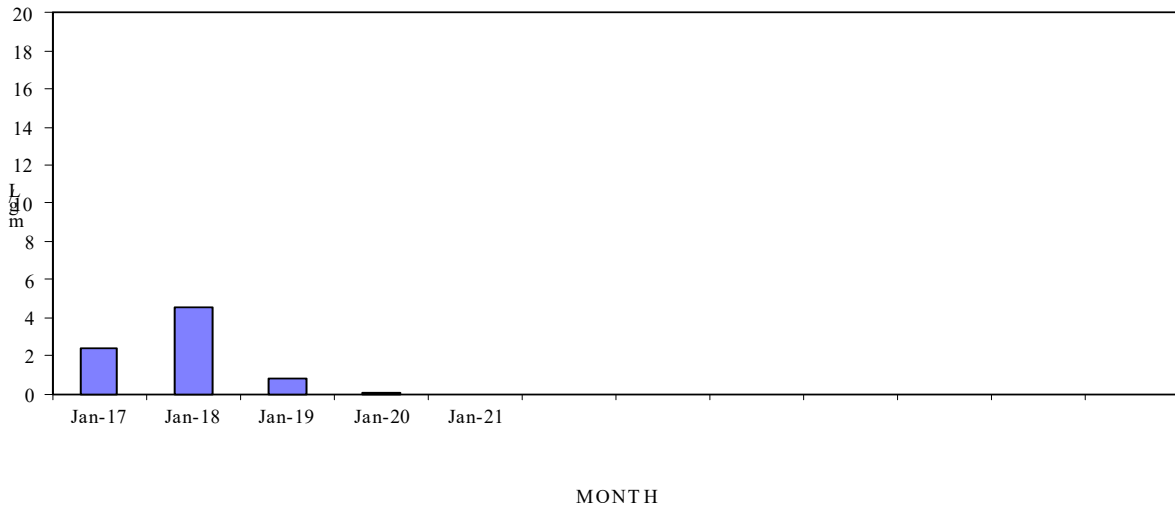




**Nitrate as N (Effluent), Annual January 2017 – October 2021**

The following information is taken from Monthly Operating Reports.

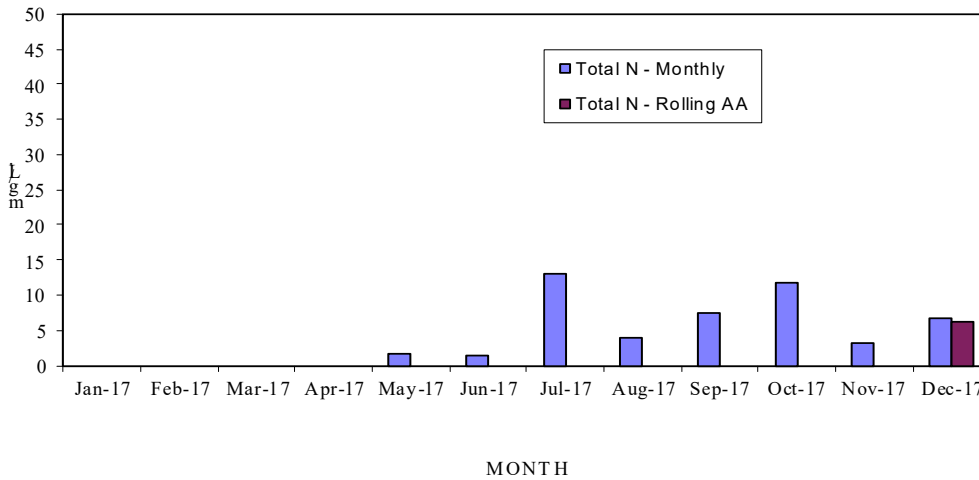
	Nitrate as N mg/L
Jan-17	2.43
Jan-18	4.49
Jan-19	0.80
Jan-20	0.10
Jan-21	



**Total Nitrogen (as N) (Effluent), Monthly & Rolling Annual Average January – Dec. 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

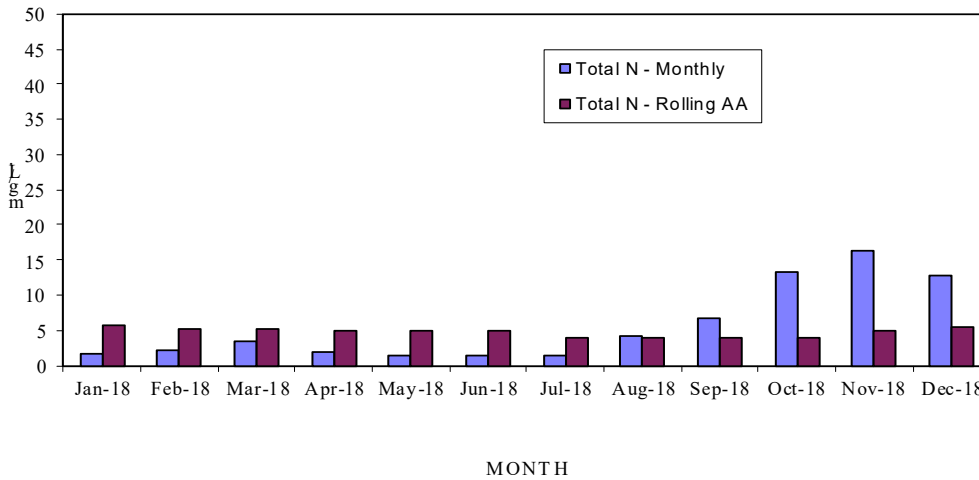
	Monthly	Rolling AA
	Total N mg/L	Total N mg/L
Jan-17		
Feb-17		
Mar-17		
Apr-17		
May-17	1.6	
Jun-17	1.3	
Jul-17	13.0	
Aug-17	3.9	
Sep-17	7.4	
Oct-17	11.9	
Nov-17	3.3	
Dec-17	6.6	6.11



**Total Nitrogen (as N) (Effluent), Monthly & Rolling Annual Average January – Dec. 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

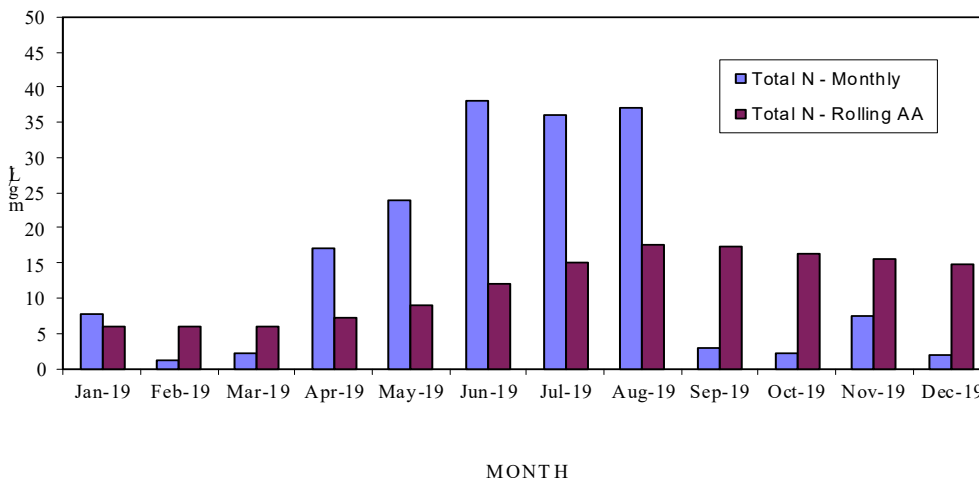
	Monthly	Rolling AA
	Total N mg/L	Total N mg/L
Jan-18	1.8	5.63
Feb-18	2.1	5.27
Mar-18	3.6	5.12
Apr-18	2.0	4.96
May-18	1.4	4.84
Jun-18	1.3	4.84
Jul-18	1.3	3.86
Aug-18	4.1	3.88
Sep-18	6.8	3.83
Oct-18	13.4	3.96
Nov-18	16.3	5.05
Dec-18	12.7	5.55



**Total Nitrogen (as N) (Effluent), Monthly & Rolling Annual Average January – Dec. 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

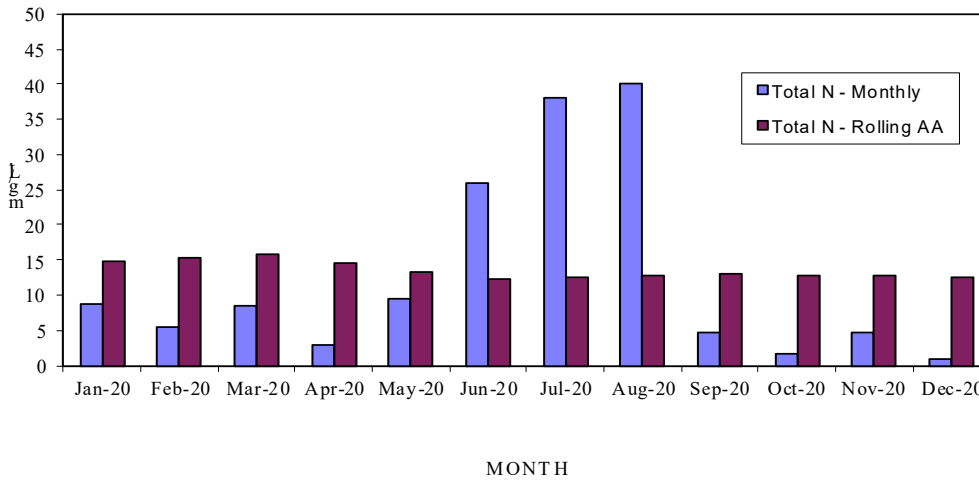
	Monthly	Rolling AA
	Total N mg/L	Total N mg/L
Jan-19	7.74	6.05
Feb-19	1.24	5.98
Mar-19	2.10	5.86
Apr-19	17.00	7.11
May-19	24.00	9.00
Jun-19	38.00	12.06
Jul-19	36.00	14.95
Aug-19	37.00	17.69
Sep-19	2.90	17.37
Oct-19	2.10	16.42
Nov-19	7.40	15.68
Dec-19	1.80	14.77



**Total Nitrogen (as N) (Effluent), Monthly & Rolling Annual Average January – Dec. 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

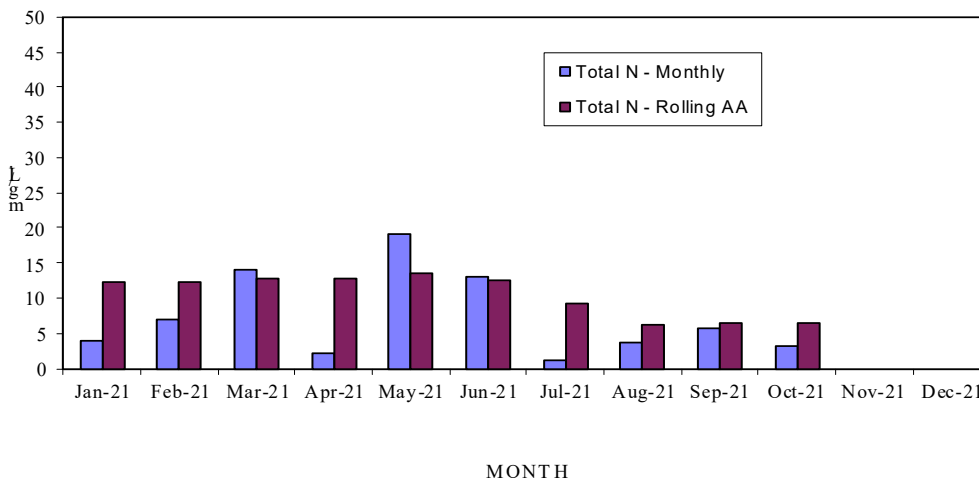
	Monthly	Rolling AA
	Total N mg/L	Total N mg/L
Jan-20	8.70	14.85
Feb-20	5.40	15.20
Mar-20	8.50	15.73
Apr-20	3.00	14.57
May-20	9.50	13.36
Jun-20	26.00	12.36
Jul-20	38.00	12.53
Aug-20	40.00	12.78
Sep-20	4.80	12.93
Oct-20	1.70	12.90
Nov-20	4.60	12.67
Dec-20	0.86	12.59



**Total Nitrogen (as N) (Effluent), Monthly & Rolling Annual Average January – Oct. 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

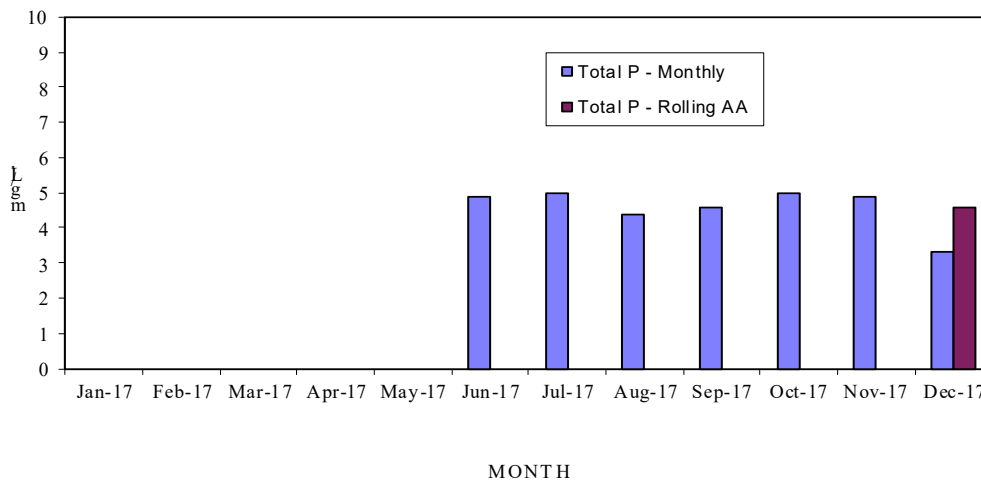
	Monthly	Rolling AA
	Total N mg/L	Total N mg/L
Jan-21	4.00	12.20
Feb-21	6.90	12.32
Mar-21	14.00	12.78
Apr-21	2.27	12.72
May-21	19.00	13.51
Jun-21	13.00	12.43
Jul-21	1.10	9.35
Aug-21	3.70	6.33
Sep-21	5.60	6.39
Oct-21	3.20	6.52
Nov-21		
Dec-21		



**Total Phosphorus (as P) (Effluent), Monthly & Rolling Annual Average Jan. – Dec. 2017**

The following information is taken from Monthly Discharge Monitoring Reports.

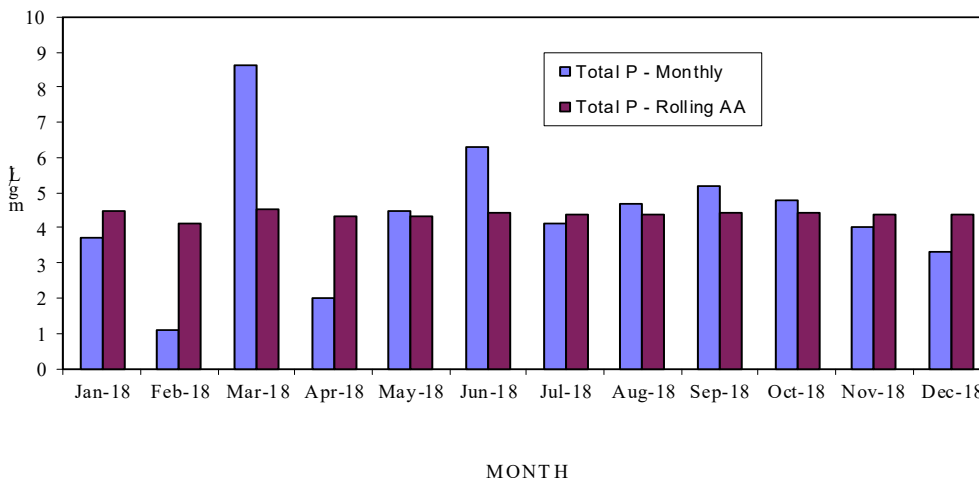
	Monthly	Rolling AA
	Total P mg/L	Total P mg/L
Jan-17		
Feb-17		
Mar-17		
Apr-17		
May-17		
Jun-17	4.90	
Jul-17	5.00	
Aug-17	4.40	
Sep-17	4.60	
Oct-17	5.00	
Nov-17	4.90	
Dec-17	3.30	4.59



**Total Phosphorus (as P) (Effluent), Monthly & Rolling Annual Average Jan. – Dec. 2018**

The following information is taken from Monthly Discharge Monitoring Reports.

	Monthly	Rolling AA
	Total P mg/L	Total P mg/L
Jan-18	3.70	4.48
Feb-18	1.10	4.10
Mar-18	8.60	4.55
Apr-18	1.99	4.32
May-18	4.50	4.33
Jun-18	6.30	4.45
Jul-18	4.10	4.37
Aug-18	4.70	4.40
Sep-18	5.20	4.45
Oct-18	4.80	4.43
Nov-18	4.00	4.36
Dec-18	3.30	4.36

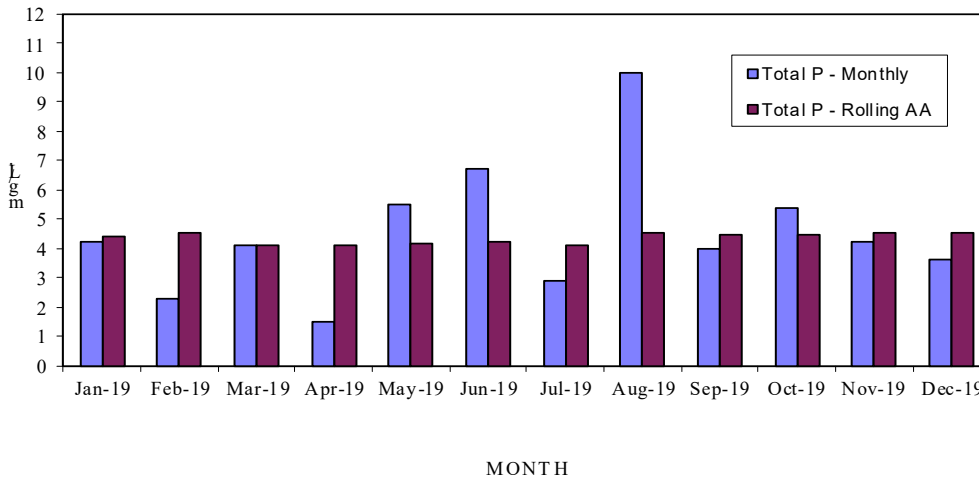




**Total Phosphorus (as P) (Effluent), Monthly & Rolling Annual Average Jan. – Dec. 2019**

The following information is taken from Monthly Discharge Monitoring Reports.

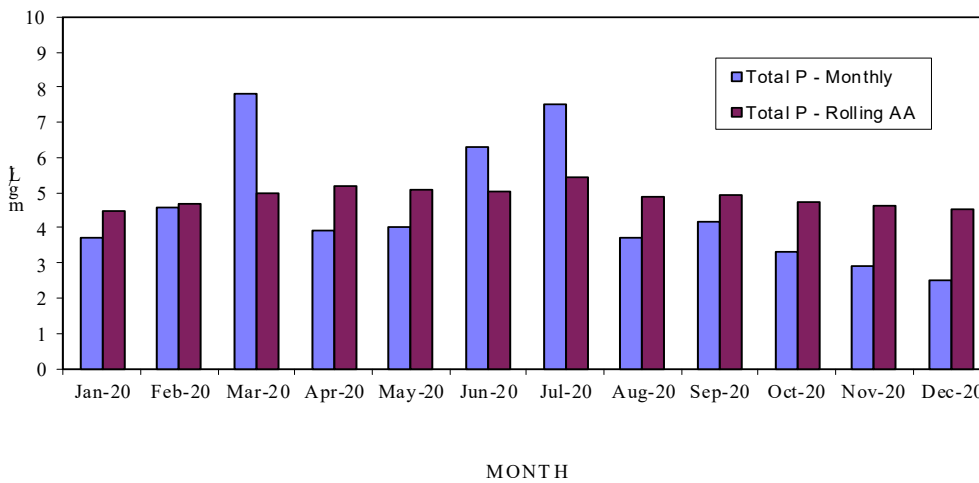
	Monthly	Rolling AA
	Total P mg/L	Total P mg/L
Jan-19	4.20	4.40
Feb-19	2.30	4.50
Mar-19	4.10	4.12
Apr-19	1.50	4.08
May-19	5.50	4.17
Jun-19	6.70	4.20
Jul-19	2.90	4.10
Aug-19	10.00	4.54
Sep-19	4.00	4.44
Oct-19	5.40	4.49
Nov-19	4.20	4.51
Dec-19	3.60	4.53



**Total Phosphorus (as P) (Effluent), Monthly & Rolling Annual Average Jan. – Dec. 2020**

The following information is taken from Monthly Discharge Monitoring Reports.

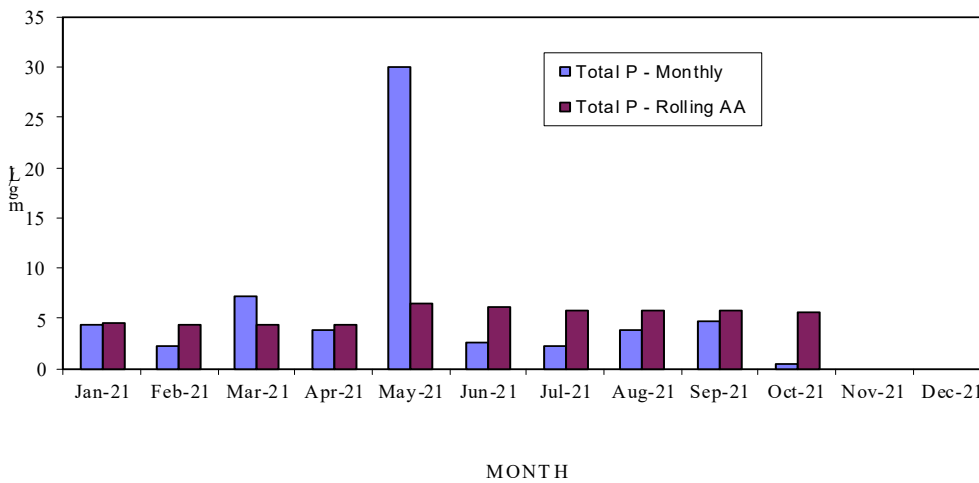
	Monthly	Rolling AA
	Total P mg/L	Total P mg/L
Jan-20	3.70	4.49
Feb-20	4.60	4.68
Mar-20	7.80	4.99
Apr-20	3.90	5.19
May-20	4.00	5.07
Jun-20	6.30	5.03
Jul-20	7.50	5.42
Aug-20	3.70	4.89
Sep-20	4.20	4.91
Oct-20	3.30	4.73
Nov-20	2.90	4.63
Dec-20	2.50	4.53



**Total Phosphorus (as P) (Effluent), Monthly & Rolling Annual Average Jan. – Oct. 2021**

The following information is taken from Monthly Discharge Monitoring Reports.

	Monthly	Rolling AA
	Total P mg/L	Total P mg/L
Jan-21	4.40	4.59
Feb-21	2.20	4.39
Mar-21	7.10	4.33
Apr-21	3.80	4.33
May-21	30.00	6.49
Jun-21	2.60	6.18
Jul-21	2.20	5.74
Aug-21	3.90	5.76
Sep-21	4.70	5.80
Oct-21	0.50	5.57
Nov-21		
Dec-21		



**UPDATED ORGANIC LOADING INFORMATION**

<b>Parameter</b>	<b>Design Loading (@ Permitted Capacity)</b>	<b>Current Loading January 2020</b>
CBOD <sub>5</sub>	240 mg/l	257 mg/l
TSS	240 mg/l	236 mg/l

Based upon *Recommended Standards For Wastewater Facilities, 1997 Edition*, the maximum organic loading rate is 15 lb. BOD<sub>5</sub>/d/1000 ft<sup>3</sup> for extended aeration. For this extended aeration wastewater treatment plant with 124,000+/- gallons in aeration volume, the design loadings are as follows:

$$\text{Maximum Organic Capacity} = 124,000 \text{ gallons/day} \div 7.48 \text{ gal/ ft}^3 = 16,577.5 \text{ ft}^3/\text{day} \text{ and } (16,577.5 \text{ ft}^3/\text{day}) \div (1000 \text{ ft}^3 / 15 \text{ lbs./day}) = \underline{248.66 \text{ lbs. @ 124,000 GPD}}$$

$$\text{CBOD}_5 \text{ \& TSS (@ Maximum Permitted Capacity of 0.099 MGD)} \\ \text{Max. Conc. (mg/l)} = 248.66 \text{ lbs.} \div (0.099 \text{ MGD} \times 8.34 \text{ lb/MG}) = \underline{301.2 \text{ mg/l}} \\ \underline{\text{@ 0.099 MGD}}$$

$$\text{CBOD}_5 \text{ \& TSS (@ July 2021 Annual Average Daily Flow of 0.0532 MGD)} \\ \text{Max. Conc. (mg/l)} = 248.66 \text{ lbs.} \div (0.0532 \text{ MGD} \times 8.34 \text{ lb/MG}) = \underline{560.4 \text{ mg/l}} \\ \underline{\text{@ 0.0532 MGD}}$$

Based upon the 2021 Annual Average Daily Flow of 0.0532 MGD, the maximum allowable organic loading rate at the wastewater treatment plant is approximately 560.4 mg/L. The Landfair WWTF is currently achieving CBOD<sub>5</sub> and TSS Percent Removal Efficiencies of 99.2% and 99.2%, respectively, based upon the effluent data reported on the October 2021 DMR and the influent data reported on the January 2020 DMR.

**FLOW MEASUREMENT**

In accordance with the current facility permit, flow measurements are to be taken from the effluent V-notch weir and totalizer flow meter (FLW-1) located at the chlorine contact chamber of WWTF. The Effluent V-notch Weir and Totalizing Flow Meter are to be calibrated at least annually.

**SURFACE WATER QUALITY**

Surface water monitoring is not required by the current permit.

**GROUND WATER QUALITY**

In accordance with Section III of Permit Number FLA010722, the subject facility is required to monitor for the following parameters on a semi-annual basis from the following existing Monitoring Wells:

- Meadowland Villas/M-1 (MWB-1)**
- Meadowland Villas/M-2 (MWC-2)**
- Meadowland Villas/M-3 (MWC-3)**

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

**Water Level: January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

<b>Sampling Period</b>	<b>MWB-1 Feet</b>	<b>MWC-2 Feet</b>	<b>MWC-3 Feet</b>
<b>1/1 - 6/30, 2017</b>	<b>DRY</b>	<b>72.35</b>	<b>67.88</b>
<b>7/1 - 12/31, 2017</b>	<b>DRY</b>	<b>68.94</b>	<b>DRY</b>
<b>1/1 - 6/30, 2018</b>	<b>DRY</b>	<b>77.16</b>	<b>68.83</b>
<b>7/1 - 12/31, 2018</b>	<b>DRY</b>	<b>78.04</b>	<b>69.88</b>
<b>1/1 - 6/30, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2021</b>	<b>DRY</b>	<b>72.48</b>	<b>60.47</b>
<b>7/1 - 12/31, 2021</b>	<b>DRY</b>	<b>76.91</b>	<b>70.32</b>

\*NSR - No Sample Results

**Nitrogen, Nitrate, Total (as N): January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

<b>Sampling Period</b>	<b>MWB-1 mg/L</b>	<b>MWC-2 mg/L</b>	<b>MWC-3 mg/L</b>
<b>1/1 - 6/30, 2017</b>	<b>DRY</b>	<b>0.17</b>	<b>3.05</b>
<b>7/1 - 12/31, 2017</b>	<b>DRY</b>	<b>0.87</b>	<b>DRY</b>
<b>1/1 - 6/30, 2018</b>	<b>DRY</b>	<b>0.05</b>	<b>1.79</b>
<b>7/1 - 12/31, 2018</b>	<b>DRY</b>	<b>0.07</b>	<b>1.96</b>
<b>1/1 - 6/30, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2021</b>	<b>DRY</b>	<b>0.10</b>	<b>3.66</b>
<b>7/1 - 12/31, 2021</b>	<b>DRY</b>	<b>0.50</b>	<b>2.93</b>

\*NSR - No Sample Results

**Total Dissolved Solids (TDS): January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

Sampling Period	MWB-1 mg/L	MWC-2 mg/L	MWC-3 mg/L
1/1 - 6/30, 2017	DRY	20	198
7/1 - 12/31, 2017	DRY	34	DRY
1/1 - 6/30, 2018	DRY	23	133
7/1 - 12/31, 2018	DRY	25	186
1/1 - 6/30, 2019	NSR	NSR	NSR
7/1 - 12/31, 2019	NSR	NSR	NSR
1/1 - 6/30, 2020	NSR	NSR	NSR
7/1 - 12/31, 2020	NSR	NSR	NSR
1/1 - 6/30, 2021	DRY	2.5	150
7/1 - 12/31, 2021	DRY	17.0	160

\*NSR - No Sample Results



**Chloride (as Cl): January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

<b>Sampling Period</b>	<b>MWB-1 mg/L</b>	<b>MWC-2 mg/L</b>	<b>MWC-3 mg/L</b>
<b>1/1 - 6/30, 2017</b>	<b>DRY</b>	<b>3.94</b>	<b>76.70</b>
<b>7/1 - 12/31, 2017</b>	<b>DRY</b>	<b>3.92</b>	<b>DRY</b>
<b>1/1 - 6/30, 2018</b>	<b>DRY</b>	<b>2.78</b>	<b>49.70</b>
<b>7/1 - 12/31, 2018</b>	<b>DRY</b>	<b>3.56</b>	<b>67.80</b>
<b>1/1 - 6/30, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2021</b>	<b>DRY</b>	<b>5.20</b>	<b>71.00</b>
<b>7/1 - 12/31, 2021</b>	<b>DRY</b>	<b>4.00</b>	<b>73.00</b>

\*NSR - No Sample Results

**Fecal Coliform: January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

<b>Sampling Period</b>	<b>MWB-1 #/100 mL</b>	<b>MWC-2 #/100 mL</b>	<b>MWC-3 #/100 mL</b>
<b>1/1 - 6/30, 2017</b>	<b>DRY</b>	<b>1.00</b>	<b>1.00</b>
<b>7/1 - 12/31, 2017</b>	<b>DRY</b>	<b>1.00</b>	<b>DRY</b>
<b>1/1 - 6/30, 2018</b>	<b>DRY</b>	<b>1.00</b>	<b>1.00</b>
<b>7/1 - 12/31, 2018</b>	<b>DRY</b>	<b>1.00</b>	<b>1.00</b>
<b>1/1 - 6/30, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2021</b>	<b>DRY</b>	<b>1.00</b>	<b>1.00</b>
<b>7/1 - 12/31, 2021</b>	<b>DRY</b>	<b>3.00</b>	<b>1.00</b>

\*NSR - No Sample Results

**pH: January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

<b>Sampling Period</b>	<b>MWB-1 s.u.</b>	<b>MWC-2 s.u.</b>	<b>MWC-3 s.u.</b>
<b>1/1 - 6/30, 2017</b>	<b>DRY</b>	<b>5.00</b>	<b>4.94</b>
<b>7/1 - 12/31, 2017</b>	<b>DRY</b>	<b>4.77</b>	<b>DRY</b>
<b>1/1 - 6/30, 2018</b>	<b>DRY</b>	<b>4.94</b>	<b>4.92</b>
<b>7/1 - 12/31, 2018</b>	<b>DRY</b>	<b>3.63</b>	<b>4.06</b>
<b>1/1 - 6/30, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2021</b>	<b>DRY</b>	<b>4.68</b>	<b>4.88</b>
<b>7/1 - 12/31, 2021</b>	<b>DRY</b>	<b>4.76</b>	<b>4.96</b>

\*NSR - No Sample Results

**Turbidity: January 2017 – October 2021**

The following information is taken from Ground Water Monitoring Well Reports.

<b>Sampling Period</b>	<b>MWB-1 NTU</b>	<b>MWC-2 NTU</b>	<b>MWC-3 NTU</b>
<b>1/1 - 6/30, 2017</b>	<b>DRY</b>	<b>4.90</b>	<b>0.75</b>
<b>7/1 - 12/31, 2017</b>	<b>DRY</b>	<b>14.00</b>	<b>DRY</b>
<b>1/1 - 6/30, 2018</b>	<b>DRY</b>	<b>8.10</b>	<b>0.60</b>
<b>7/1 - 12/31, 2018</b>	<b>DRY</b>	<b>1.70</b>	<b>0.65</b>
<b>1/1 - 6/30, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2019</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>7/1 - 12/31, 2020</b>	<b>NSR</b>	<b>NSR</b>	<b>NSR</b>
<b>1/1 - 6/30, 2021</b>	<b>DRY</b>	<b>6.80</b>	<b>5.10</b>
<b>7/1 - 12/31, 2021</b>	<b>DRY</b>	<b>5.50</b>	<b>0.65</b>

\*NSR - No Sample Results

## **OPERATION AND MAINTENANCE PROGRAM**

### ***GENERAL***

#### **Staffing**

The facility is adequately staffed with a certified operator in accordance with current Department rules. The operator's certification number is B-12483. The plant is staffed with a Class "C" or higher operator for a minimum of 1/2 hours/day for 5 days/week and one visit each weekend.

#### **Facility Programs**

The facility's maintenance, record keeping, and sampling programs are conducted by the operator in accordance with Department rules.

#### **Testing**

All laboratory tests required by the Department are performed by a certified laboratory. All on site tests for pH, dissolved oxygen, and chlorine residual are performed by a certified laboratory or under the direction of an operator certified in accordance with Chapter 62-602, F.A.C.

### ***RECORD DRAWINGS***

*Record drawings* were not available for review by DNM Engineering & Associates, Inc. at the Florida Department of Environmental Protection – Central District or at the facility.

### ***OPERATION AND MAINTENANCE MANUAL***

An *Operation and Maintenance Manual* for the wastewater treatment and effluent disposal facilities was available for review by DNM Engineering & Associates, Inc. at the wastewater treatment facility.

### **OPERATION AND MAINTENANCE LOG**

An up-to-date operation and maintenance log with the entries required by Rule 62-602.650(4), F.A.C. is maintained by the operator and available at the facility within a closed mailbox.

## **COLLECTION SYSTEM EVALUATION**

### ***INFILTRATION AND INFLOW***

#### **Collection System**

On August 8<sup>th</sup>, 2021; August 26<sup>th</sup>, 2021; and December 10, 2021, DNM Engineering & Associates, Inc. was on-site to evaluate the facility's sanitary sewer collection system for indications of infiltration or inflow. As per our discussions with the current facility operator, there appears to be indications of infiltration/inflow as wastewater flows are higher during rain events. However, the elapsed time meters at the lift stations are not operating and unable to determine which lift stations are being affected by infiltration/inflow.

#### **Septic Wastewater**

Septic conditions are not present at the wastewater treatment facility. Septic wastewater is not accepted at the wastewater treatment facility.

#### **Industrial Contributions**

The wastewater treatment facility does not receive industrial wastewater flows.

## DEFICIENCIES AND CORRECTIVE ACTIONS

### *NOTED CONSIDERATIONS*

#### **Items needing immediate attention**

During the preparation of this report the following items were noted as needing immediate attention and should be scheduled for evaluation or repair as soon as possible:

- 1. The elapsed time meters at the lift stations are not operating and need to be replaced in order to determine what lift stations are being affected by infiltration/inflow during rain events. Once completed, the facility operator will monitor the lift stations to determine which sanitary sewer collection systems need to be evaluated for infiltration/inflow repairs.**
- 2. Vegetation and solids within the facility's lined holding pond need to be removed. Currently the lined holding pond is being by-passed to allow the pond to dry which will allow the vegetation and solids to be removed and properly disposed.**
- 3. No "Record Drawings" of the Wastewater Treatment Facility were available for review at the facility. Permittee will be contacted to inquire whether record drawings are located elsewhere. If not, then as-built drawings of the facility will need to be prepared in order to comply with the existing operations permit.**
- 4. Several effluent sprinkler spray heads located within the rapid-rate infiltration basins need to be evaluated for repair/replacement.**

#### **Items to be scheduled for maintenance**

During the preparation of this report the following items were noted to be scheduled for maintenance.

1. Continue to perform regular maintenance of the rapid-rate infiltration basins (percolation/evaporation ponds).

### **SUMMARY**

The Landfair WWTF overall appears to be in good condition and based upon the review of the Monthly Discharge Monitoring Reports from January 2017 through October 2021, the facility has met the flow and effluent requirements under the current operating permit with the exception of the following effluent parameter exceedances:

#### **Effluent Sampling Point (EFA-1):**

- May 2017: Fecal Coliform concentration exceeded the single sample maximum concentration of 800/100mL (8,100/100mL).
- May 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- June 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- July 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).

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- Aug. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Sept. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Oct. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Nov. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.25/100mL).
- Dec. 2017: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.25/100mL).
- Jan. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Feb. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Mar. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Apr. 2018: Fecal Coliform concentration exceeded the annual average maximum concentration of 200/100mL (676.17/100mL).
- Aug. 2018: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (34.0 mg/L).
- Jan. 2019: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- July 2019: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- Jan. 2020: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- Feb. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (36.0 mg/L).
- Mar. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (117.0 mg/L).
- Mar. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.5 mg/L).
- Apr. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.67 mg/L).
- May 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (68.0 mg/L).
- May 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (29.08 mg/L).
- June 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (30.08 mg/L).
- July 2020: Semi-annual sampling results for Groundwater Monitoring Wells MWB-1, MWC-2, & MWC-3 were not reported.
- July 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (36.0 mg/L).



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- July 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (31.92 mg/L).
- Aug. 2020: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (80.0 mg/L).
- Aug. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.5 mg/L).
- Sept. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (38.08 mg/L).
- Oct. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Nov. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.67 mg/L).
- Nov. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Dec. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.59 mg/L).
- Dec. 2020: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (37.67 mg/L).
- Jan. 2021: Annual influent samples for CBOD<sub>5</sub>; TSS; Nitrogen, Nitrate, Total (as N) were not performed.
- Jan. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.20 mg/L).
- Jan. 2021: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (34.0 mg/L).
- Jan. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (40.17 mg/L).
- Feb. 2020: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.32 mg/L).
- Feb. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (38.83 mg/L).
- Mar. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.78 mg/L).
- Mar. 2021: TSS concentration exceeded the single sample maximum concentration of 30 mg/L (53.0 mg/L).
- Mar. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (33.50 mg/L).
- Apr. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.72 mg/L).
- Apr. 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (32.83 mg/L).
- May 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (13.51 mg/L).
- May 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (28.71 mg/L).

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- June 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (12.43 mg/L).
- June 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (27.38 mg/L).
- July 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (9.35 mg/L).
- July 2021: TSS concentration exceeded the annual average maximum concentration of 20 mg/L (24.54 mg/L).
- Aug. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.33 mg/L).
- Sept. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.39 mg/L).
- Oct. 2021: Total Nitrogen concentration exceeded the annual average maximum contaminant concentration of 3.0 mg/L (6.52 mg/L).

Fecal Coliform effluent exceedance violation appears to have been from an isolated incidence in May 2017 and has since been in compliance with the effluent requirement.

TSS exceedance violations appear to have been the result of improper solids management/build-up within the WWTF from February 2020 through May 2021 and appears to have been corrected by the current facility operator.

Total Nitrogen exceedance violations since November 2020 will require modification to the facility's existing extended aeration activated sludge process in order to meet the current Total Nitrogen maximum effluent concentration of 3.0 mg/L.

Items listed as noted considerations have been discussed with the permittee and the facility's operator and will be scheduled to be completed as soon as possible.

## RECOMMENDATIONS

The following are the recommendations to modify the treatment process of the existing Landfair WWTF from the Extended Aeration Activated Sludge Process to a Modified-Ludscak Ettinger (MLE) Activated Sludge Process in order to meet the current Total Nitrogen Maximum Annual Average Effluent Concentration of 3.0 mg/L:

- Modify the existing 62,000+/- gallon Aeration Basin No.: 1 into a 24,800+/- gallon Anoxic Basin No. 1 and a 37,200+/- gallon Aeration Basin by constructing an interior concrete divider wall within the existing basin. Anoxic Basin No. 1 to be equipped with a 15+/- HP Submersible Mixing Pump, Control Panel, and a Glycerin Solution Feed System.
- Modify the existing 62,000+/- gallon Aeration Basin No.: 2 into a 24,800+/- gallon Anoxic Basin No.2 and a 37,200+/- gallon Re-Aeration Basin by constructing an interior concrete divider wall within the existing basin. Anoxic Basin No. 2 to be equipped with a 15 HP Submersible Mixing Pump, Control Panel, and a Glycerin Solution Feed System. Re-Aeration Basin No. 2 to be equipped with a 10 HP Submersible Nitrogen Recycling Pumps and Duplex Control Panel to recycle mixed liquor from the basin back to Anoxic Zone No. 1.

# **BIOSOLIDS STORAGE PLAN**

**BIOSOLIDS STORAGE PLAN**

**FOR THE**

**LANDFAIR**

**WASTEWATER TREATMENT PLANT**

**MIDPOINT OF N.W. 77<sup>th</sup> LOOP**  
**OCALA, MARION COUNTY, FLORIDA**

<b>Permit Number:</b>	<b>FLA010722</b>
<b>PA File Number:</b>	<b>FLA010722-007-DW3P</b>
<b>Expiration Date:</b>	<b>April 9, 2022</b>

**Prepared by:**

**DNM Engineering & Associates, Inc.**  
**P.O. Box 42**  
**Ocala, Florida 34478**

**December 28, 2021**

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## GENERAL

This is the Biosolids Storage Plan for the wastewater treatment facility that serves the following properties located in Ocala, Marion County, Florida:

- 1) **Landfair Multi-Family Subdivision**  
Intersection of N.E. 78<sup>th</sup> Street & N.E. Jacksonville Road  
  
Seventy-six (76) Multi-Family Duplexes ( 2 Bedroom/2 Bath)  
Community Center
- 2) **Hilltop Manor Apartments**  
7334 N.E. Jacksonville Road  
  
33 - 2 Bedroom/1 Bath Apartments  
4 - 1 Bedroom/1 Bath Apartments  
Office, Laundry Facility, Storage
- 3) **Hilltop Manor II Apartments**  
7334 N.E. Jacksonville Road  
  
30 - 2 Bedroom/1 Bath Townhouses  
15 – 1 Bedroom/1 Bath Townhouses  
Laundry Facility
- 4) **Penny Park Estates MHP**  
1001 N.E. 77<sup>th</sup> Street  
  
27 Mobile Home Spaces (20 vacant spaces)
- 5) **Villages of Ocala East MHP**  
751 N.E. 77<sup>th</sup> Lane  
  
105 Mobile Home Spaces (63 vacant spaces)  
Recreation Building  
Office
- 6) **Villages of Ocala West MHP**  
370 N.E. 76<sup>th</sup> Lane  
  
65 Mobile Homes Spaces (37 vacant spaces)
- 7) **Marathon Convenience Store/Retail Gas Station**  
7025 N.E. Jacksonville Road  
  
3,200+/- Square feet Convenience Store

The Landfair Wastewater Treatment Facility is located within the Landfair Multi-Family Subdivision at the midpoint of N.W. 77<sup>th</sup> Loop which intersects N.E. 22<sup>nd</sup> Terrace. The current permit expires on April 9, 2022.

In accordance with Chapter 62-640.300(4)(a), F.A.C., the permittee of a domestic wastewater treatment facility which generates, treats, or manages biosolids shall prepare a biosolids storage plan “to demonstrate that storage capacity is available to provide retention of biosolids under adverse weather conditions, harvesting conditions, or other conditions which preclude land application or the use or disposal of the facility’s biosolids.”

## DESCRIPTION OF FACILITIES

### WASTEWATER TREATMENT PLANT

The domestic wastewater treatment plant (WWTP) consists of a 0.099 MGD concrete modular package plant. The WWTP consists of a flow equalization basin, aeration, secondary clarification, chlorination and aerobic digestion of residuals. The permitted capacity of the WWTP is currently limited to 0.099 MGD Annual Average Daily Flow (AADF). The WWTP is an activated sludge process, which utilizes an extended aeration system. The components of the plant are as follows:

- (1) Influent Bar Screen
- (2) Flow equalization basin with a total volume of 10,000+/- gallons with Flow Splitter Box and duplex submersible equalization pumps and controls.
- (2) 20.0 HP, 3-Phase (208-230V/460V), 1760 RPM Motor and Roots Model 68-URAI blower assemblies for the delivery of air mixing and oxygen requirements.
- (2) Aeration basins with a total volume of 124,000+/- gallons.
- (1) Settling basin with a total volume of 26,000+/- gallons w/ sludge hopper, scum removal and effluent weir.
- (1) Aerobic sludge holding tanks with a total volume of 10,400+/- gallons.
- (1) Chlorine contact basin with a total volume of 5,500+/- gallons for disinfection.
- (1) Stevens Model #61R Effluent Flow Meter & V-Notch Weir.
- (1) Stenner 17 GPD, 115V Chemical Feeder Pump for the delivery of sodium hypochlorite solution for disinfection purposes.

### RECLAIMED/REUSE WATER LAND APPLICATION OF EFFLUENT

The treated effluent is applied to the 0.099 MGD AADF on-site rapid rate land application system consisting of the following:

- (2) Percolation/evaporation ponds with total bottom area of 100,188+/- ft<sup>2</sup> (2.3+/- Acres).

### RESIDUALS DISPOSAL

Aerated sludge storage is provided to accommodate daily sludge production. Supernatant from the holding tank is returned to the aeration basin, via portable pump, to increase solids concentration within the tank. As needed, American Pipe and Tank d/b/a/ 412 Biosolids Processing Facility removes residuals from the aerobic sludge holding tank and hauls them off-site to be treated at a permitted Type II Residuals Management Facility (Permit No.: FLA356697-001-DW2S) by lime stabilization and land applied or disposed of in a Class I or II solid waste landfill.

## AEROBIC DIGESTER CAPACITY

### DESIGN CAPACITY & POPULATION EQUIVALENT (PE)

The design capacity of the Landfair WWTF is 0.099 MGD.

$$\text{Population Equivalent (PE)} = (99,000 \text{ GPD}) / (100 \text{ GPD/PE}) = 990$$

### TANK VOLUME CALCULATIONS

$$\text{WWTF's Permitted Capacity (PC)} = \underline{0.099 \text{ MGD (99,000 GPD)}}$$

$$\text{WWTF's Aeration Volume (ft}^3\text{)} = (124,000 \text{ GPD})(1 \text{ ft}^3 / 7.48 \text{ gallons}) = \underline{16,577.5 \text{ ft}^3}$$

$$\text{Design Organic Loading Rate} = \underline{15 \text{ lb BOD}_5 / 1000 \text{ ft}^3\text{-Day}} \text{ (Metcalf \& Eddy, Table 10-5)}$$

$$\text{WWTF's Organic Capacity} = (15 \text{ lb BOD}_5 / 1000 \text{ ft}^3\text{-Day})(16,577.5 \text{ ft}^3) = \underline{248.7 \text{ lb/day}}$$

$$\text{Max. BOD}_5 \text{ Conc. @ PC (mg/L)} = (248.7 \text{ lb/day}) / (0.099 \text{ MGD})(8.34 \text{ lb/MG}) = \underline{301.2 \text{ mg/L}}$$

$$\text{Mean Cell Residence Time (MCRT)(day)} = \underline{25 \text{ Days}} \text{ (Metcalf \& Eddy, Table 10-5)}$$

$$\text{Mixed Liquor Suspended Solids (MLSS) Conc.} = \underline{2,500 \text{ mg/L}} \text{ (Metcalf \& Eddy, Table 10-5)}$$

$$\begin{aligned} \text{Mixed Liquor Volatile Suspended Solids (MLVSS)} &= 80\% \text{ of MLSS} \\ &= (2,500 \text{ mg/L})(0.80) = \underline{2,000 \text{ mg/L}} \end{aligned}$$

$$\text{MLVSS Concentration (lb/day)} = (2,000 \text{ mg/L})(8.34 \text{ lb/MG})(0.099 \text{ MGD}) = \underline{1,651.3 \text{ lb/day}}$$

$$\text{Food/Mass (F/M) Ratio} = \underline{0.10} \text{ (Metcalf \& Eddy, Table 10-5)}$$

$$\text{Waste Activated Sludge (WAS) Concentration} = \underline{6,000 \text{ mg/L}} \text{ (Operation of WWTPs, Volume II)}$$

$$\begin{aligned} \text{WAS to maintain MCRT} &= (\text{MLVSS, lb/day}) / (\text{MCRT, days}) = (1,651.3 \text{ lb/day}) / (25 \text{ days}) \\ &= \underline{66.05 \text{ lbs}} \end{aligned}$$

$$\begin{aligned} \text{WAS Volume} &= [(\text{Aeration Volume, gal.})(\text{MLSS, mg/L}) / (\text{MCRT, day})(\text{WAS Conc., mg/L})] \\ &= [(124,000 \text{ gal})(2500 \text{ mg/L}) / (25 \text{ Days})(6,000 \text{ mg/L})] = \underline{2,066.7 \text{ GPD}} \end{aligned}$$

$$\text{Density of Water } (\gamma_w) = \underline{62.4 \text{ lb/ft}^3}$$

$$\text{Specific Gravity of Sludge (SG)} = \underline{1.015} \text{ (Assumed)}$$

**Volume of Solids Produced (assume 2% solids):**

$$\begin{aligned} &= [(\text{WAS to maintain MCRT, lb/day})(7.48 \text{ gal/ft}^3) / (\gamma_w)(\text{SG})(\% \text{ solids})] \\ &= [(66.05 \text{ lb/day})(7.48 \text{ gal/ft}^3) / (62.4 \text{ lb/ft}^3)(1.015)(0.02)] = \underline{390.0 \text{ GPD}} \end{aligned}$$



***Sludge Storage Production Period*** = 30 days

***Sludge Storage Volume Required for Production Period:***

= (Volume of Solids Produced, GPD)(Production Period, days)

= (390.0 GPD)(30 Days) = 11,700.8 Gallons

***Additional Sludge Storage Volume Required For Supernatant Separation\*:***

= (25%) (Sludge Storage Volume Required for Production, gal.)

= (0.25) (11,700.8 gallons) = 2,925 gallons

\*Section 85.31 of Recommended Standards For Wastewater Facilities, 1997 Edition)

***Total Sludge Storage Volume Required*** = (11,701 gal.) + (2,925 gal.) = **14,626 Gallons**

***Total Sludge Storage Volume Provided*** = **10,400 gallons**

## **ADDITIONAL SLUDGE STORAGE VOLUME CALCULATIONS**

If the Landfair WWTF was operating at its current permitted capacity of 0.099 MGD then the existing aerobic sludge digester would not have any additional storage capacity available to provide the retention of biosolids under adverse weather conditions or any other condition which may preclude transferring the biosolids to the *412 Biosolids Processing RMF* for stabilization and land application.

In the event where adverse weather conditions are predicted, it is recommended to have the digester pumped out prior to the arrival of the adverse weather conditions in order to provide the necessary volume required until normal operating conditions can be maintained.

## **SLUDGE DIGESTION AND SOLIDS HANDLING**

### **NEED FOR SLUDGE DIGESTION**

The raw sludge and sludges from activated sludge processes are most commonly pumped to a sludge digester for treatment. The Landfair WWTF currently utilizes an aerobic sludge digester treatment system where bacteria decompose the sludges to simpler forms prior to ultimate disposal of the sludges or reuse of the Biosolids. (the word “Biosolids” refers to a primarily organic solid product produced by wastewater treatment processes that can be beneficially recycled. The word Biosolids is replacing the word sludge when referring to treated waste. After sludge is treated, the resulting solids are ready for disposal or recycling and are called “Biosolids.”) The following discusses the operation of aerobic sludge digesters.

### **AEROBIC SLUDGE DIGESTION**

Aerobic digestion of solids occurs, whether intentional or not, in any conventional secondary treatment processes. In the extended aeration process, the aerobic digestion process is continued almost to the maximum obtainable limit of volatile matter reduction. A separate aerobic digester is intended mainly to ensure that residual solids from aerobic biological treatment processes are digested to the extent that they will not cause objectionable odors during disposal. An aerobic digester is commonly used to avoid the problems encountered when a waste aerobic activated sludge with low solids content is placed in an anaerobic digester. For this facility, the aerobic digester is used to treat only waste activated sludge pumped from the final sedimentation basin/secondary clarifier. The aerobic digester is a separate operation following other processes. Its purpose is to extend decomposition of solids and regrowth of organisms to a point where available energy in active cells and storage of waste materials are low enough and the material is stable enough for ultimate disposal.

#### *Advantages of Aerobic Sludge Digestion:*

- 1. Has lower equipment costs, but operating costs are higher, mainly because of energy requirements.*
- 2. Tends to produce fewer noxious odors.*
- 3. Produces liquids that usually are easier to treat when returned to the plant.*
- 4. Generates major digestion products consisting of residual solids, carbon dioxide, water, sulfate, and nitrate compounds. Most of these products are close to the final stabilization stage.*

5. *May achieve nitrogen removal by stopping aeration long enough to allow the conversion of nitrate to nitrogen gas. Aeration must be restarted before sulfate compounds are converted to sulfide (H<sub>2</sub>S).*
6. *Tends to work better on partially stabilized solids from secondary processes that are difficult to treat by the anaerobic digestion process.*
7. *Produces a sludge that has a higher water content. Aerobic sludges are difficult to concentrate higher than 4 percent solids.*
8. *Uses oxygenation and mixing provided by aeration process equipment.*
9. *Has fewer hazardous cleaning and repairing tasks.*
10. *Works by aerobic decay, which produces fewer odors when operated properly.*

### ***Process Description***

The facility's aerobic digestion tank is a partially covered rectangular pre-cast basin. The tank utilizes diffused air from the facility's aeration equipment to maintain aerobic conditions. The tank is equipped with a sludge (WAS) air eductor feed line from the final sedimentation basin/secondary clarifier and located above the high water level of the tank. A portable pump is utilized to draw off supernatant liquid from the upper half of the tank. When necessary, solids are removed from the aerobic sludge digester by American Pipe & Tank and transferred off-site to be treated at a permitted Type II Biosolids Treatment Facility (BTF) (Permit No.: FLA356697-001-DW2S).

Detention time depends on the origin of the sludge being treated. Twenty days will provide sufficient digestion time for sludges from an extended aeration process where sludges are already well digested.

### ***Operation***

Aerobic digesters are operated under the principle of extended aeration from the activated sludge process, relying on the mode or region called Endogenous Respiration. Aerobic digestion consists of continuously aerating the sludge without the addition of new food, other than the sludge itself, so the sludge is always in the endogenous region. Aeration continues until the volatile suspended solids are reduced to a level the sludge is reasonably stable, does not create a nuisance or odors, and will readily dewater.

To place the aerobic digester(s) into service, fill the digester with primary effluent to within three feet of the normal water level and start the aeration equipment. Pump to the aerobic digestion process whenever sludge is pumped. Waste aerobic sludge from the final sedimentation

basin/secondary clarifier will provide the seed to start the process. Maintain a dissolved oxygen level near 1.0 mg/L in aerobic digester.

When the aerobic digester has filled to normal water level, turn off aeration equipment and allow the solids to settle to the bottom of the tank. This will leave a supernatant above the solids. Do not leave the aeration equipment off too long because odors will start to develop.

After the solids have settled, draw off a foot or two of water from the upper portion of the tank. Sufficient water should be removed from the digester to accommodate another 24-hour flow of sludges from the final sedimentation basin/secondary clarifier. Restart the aeration equipment when sufficient water has been removed. Water withdrawn from the aerobic digester may be returned to the headworks of the treatment process.

On the next day, repeat the process of stopping aeration, allowing settling, and removing a portion of the supernatant liquor to make room for another day's pumping of sludge. After a week or two, the solids level will build up to occupy approximately 50 percent of the tank volume during the settling period with a suspended solids concentration of 10,000 to 15,000 mg/L. Dissolved oxygen levels in aerobic digester should be maintained between 1.0 and 2.0 mg/L throughout the tank.

Repeat the above process after sludge is withdrawn from the aerobic digester by the MCPS Sludge Hauling Personnel for ultimate disposal.

### ***Operation During Abnormal Conditions***

Based upon the variable resident population at the Landfair WWTF Service Area, the existing aerobic sludge digesters should have additional storage capacity available to provide the retention of biosolids under adverse weather conditions or any other condition which may preclude American Pipe & Tank from transferring the biosolids off-site to be treated at a permitted Type II Biosolids Treatment Facility (BTF) (Permit No.: FLA356697-001-DW2S) for stabilization and land application. In order to ensure storage capacity is available during these abnormal conditions, it is recommended to maintain approximately 2 to 2.5 feet of freeboard within the aerobic digester just in case this volume is needed to retain sludge during abnormal events where the sludge cannot be removed from the tank. In the event when severe weather conditions are predicted (tropical depressions, tropical storms, and hurricanes), it is advised to have the sludge within the aerobic digester removed and transferred to the RMF as soon as

possible prior to the event or inspect the facility to ensure adequate volume in the aerobic digester is available.

### ***Operational Records***

Successful operation requires the operator to measure and record the following information:

#### DAILY

1. Volume of raw and secondary sludges transferred to the aerobic digester(s).
2. Volume of supernatant liquor withdrawn from the aerobic digester(s).

#### WHEN SLUDGE IS WITHDRAWN

1. Volume of sludge withdrawn for dewatering.

### ***Operational Problems***

#### SCUM:

The aerobic digesters will have to be skimmed periodically to remove floating grease and other material that will not digest. This material should be disposed of properly.

#### ODORS:

Odors should not be a problem in aerobic digestion unless insufficient oxygen is supplied or a shock load reaches the aerobic digestion tank(s).

#### FLOATING SLUDGE:

Floating sludge may become quite thick in the tank when aeration is stopped during removal of the supernatant. Scum and solids must be removed from the supernatant to prevent interference with other treatment processes and degradation of the plant effluent.

### ***Maintenance Problems***

Usually, this process requires very little maintenance. Routinely hose the side walls of open tanks for appearance and fly control.

#### DIFFUSER MAINTENANCE:

If diffused air is used for aeration, only open orifice or nozzle-type diffusers should be installed because the daily stopping of air flow during supernatant removal tends to increase plugging of other types of diffusers.

## REFERENCES

1. Chapter 64E-6, F.A.C., Latest Revision.
2. Chapter 62-640, F.A.C., Latest Revision.
3. U.S. EPA *Process Design Manual for Sludge Treatment and Disposal*, EPA 625/1-79-011, September 1979.
4. Recommended Standards For Wastewater Facilities, 1997 Edition.
5. Metcalf and Eddy, Inc.; *Wastewater Engineering Treatment, Disposal, and Reuse, Third Edition*.
6. California State University, Sacramento; *Operation of Wastewater Treatment Plants, Volume II, Seventh Edition*.

# **CALIBRATIONS**

**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: Land Fair Homes  
 FACILITY LOCATION: NE 28<sup>th</sup> Place and NE 23<sup>rd</sup> Court

ID: FLA010722  
 Anthony, Fla. Marion County

**PRIMARY DEVICE**

V-NOTCH WEIR	PARSHALL FLUME	RECTANGULAR WEIR
DEGREE OF V-NOTCH	WIDTH OF THROAT (IN)	CREST LENGTH (FT)
45	N/A	N/A

Gauge setting comparison using staff gauge:

Satisfactory  Unsatisfactory

Physical inspection of primary device approach, device and discharge:

Satisfactory  Unsatisfactory

**SECONDARY DEVICE**

TYPE: Flow Recorder  
 MAKE/MODEL/SERIAL: Stevens Serial # 121518-86  
 DATE OF LAST CALIBRATION: 5-20-2020

	LOW FLOW	MODERATE FLOW	HIGH FLOW
STAFF GAGE READING (ft)	0.0	.11	.21
ACTUAL FLOW (gpm)	0.0	1.86	9.39
TOTALIZER OR RECORDER READING(gpm)	0.0	1.90	9.58
PERCENT DIFFERENCE (%)	0%	2%	2%

Physical Inspection of Secondary Device:  
 Totalizer Accuracy Check Using Stopwatch:

Satisfactory  Unsatisfactory  
 Satisfactory  Unsatisfactory

COMMENTS: I hereby certify that the above test was performed in accordance with the best available technology.

TECHNICIAN SIGNATURE:



DATE: 11-19-2021

Timothy Plymel FRWA 1-800-872-8207



# **SLUDGE HAULER AGREEMENT**

## AGREEMENT FOR TRANSPORTATION, TREATMENT AND DISPOSAL OF DOMESTIC WASTEWATER RESIDUALS

This AGREEMENT by and between AMERICAN PIPE & TANK, INC. 418 Cypress Road, Ocala, FL 34472 D/B/A/ 412 BIOSOLIDS PROCESSING FACILITY (hereinafter 412 BPF) and

CFAT/H2O/LANFAIR whose address is PO BOX 5220, OCALA, FL 34478

(hereinafter referred to as CLIENT).

### WITNESSETH THAT

WHEREAS, 412 BPF is the owner and operator of a Type I Residuals Management Facility, File #FLA356697-001-DW2S and Agricultural Use Site, and

WHEREAS, sufficient capacity shall be maintained and

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

WHEREAS, the CLIENT owns and operates the domestic wastewater treatment plant permitted as FLA010722

hereinafter referred to as "SOURCE" and has the need to dispose of the waste residual generated by the "SOURCE" and

WHEREAS, the CLIENT and 412 BPF both operate treatment facilities in compliance with Chapter 62-600 FAC, the degree of treatment at the plants determined according to said Chapter the true identity (treatment plant) referred to as "GENERATOR". For the ease of permitting 412 BPF will be referred to as "GENERATOR".

WHEREAS, as a condition precedent to the obtaining a valid operating permit for the SOURCE, FDEP requires the GENERATOR to file an Agricultural Use Plan whereby the SOURCE certifies that his residuals shall meet the chemical criteria for residuals suitable for land application.

NOW THEREFORE, for and in consideration of the mutual 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 frequency and schedule stated in Chapter 62-640, FAC.
2. The CLIENT hereby covenants and agrees:
  - A. If the CLIENT stabilizes the residuals to Class "B" or above, none of said residuals can be mixed with unstabilized materials. If mixing has occurred, the entire load will be required to be stabilized at the 412 BPF Plant.
  - B. The CLIENT shall pay for the transportation, treatment and disposal as dictated in the AGREEMENT PAY SCHEDULE "A" attached to this contract.
  - C. The CLIENT warrants that the residuals 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.
3. 412 BPF hereby covenants and agrees:
  - A. To maintain, monitor and operate the lime stabilization plant and residuals disposal site in compliance with Chapter 62-640, FAC.
  - B. To accept all responsibility for the proper measurement, stabilization and land application for the proper disposal of the residuals as required by Chapter 62-640, FAC.

- C. To maintain a record of the total quantity of residuals land applied and file with FDEP an annual summary of the total quantity of residuals, heavy metals and nitrogen land applied, in which the CLIENT is a contributor thereof, to meet the GENERATOR'S certification requirements of the Agricultural Use Plan for this 412 BPF.
4. It is further understood by both parties that:
- A. Both parties understand that this Agreement is subject to the rules, regulations and directives of the regulatory agencies and agree that in the event such rules, regulations and directives require modification of the Agreement, they will negotiate in good faith to make such modification.
- B. Upon arrival onsite for treatment, residuals from the CLIENT'S plant, 412 BPF 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 material.
5. It is specifically agreed and understood by all parties hereto, that the rate stated in the Agreement Pay Schedule "A" is for the proper treatment, transportation and disposal of residuals delivered by AMERICAN PIPE & TANK, INC. to the 412 BPF site and proper disposal of the same.
6. Payment shall be made by Customer within thirty (30) days after receipt of an Invoice from Contractor. In the event that any payment is not made when due, Contractor at its sole option, may, at any time, terminate this Agreement on notice to Customer and the Department of Environmental Protection. Contractor may impose and Customer agrees to pay a late fee not to exceed the maximum rate allowed by applicable law for all past due payments.
7. Contractor shall not be responsible for damage to CLIENT'S pavement or other driving surface resulting from the weight of Contractor's vehicles servicing the wastewater treatment plant on routes designated by Customer.
8. Changes in the Schedule of Charges, capacity and type of equipment may be agreed to orally or in writing by the parties. Consent to oral changes shall be evidenced by the actions and practices of the parties.
9. Since disposal related charges and fuel costs are a significant portion of the cost of Contractor's services provided hereunder, Contractor may increase the unit price of the Schedule of Charges in an amount equal to any equivalent unit increase in disposal or fuel costs.
10. The term of this Agreement shall be for three (3) years 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. In the event the CLIENT terminates this Agreement other than as provided above, CLIENT shall pay to Contractor as liquidated damages, a sum calculated as follows: (a) if the remaining term under this Agreement is six months or more, CLIENT shall pay its most recent monthly charge multiplied by six (6); (b) if the remaining term under this Agreement is less than six months, CLIENT shall pay its most recent charge multiplied by the number of remaining months in the term.
11. That 412 BPF shall assume responsibility for the proper transport and spill contingency for residuals from the CLIENT once loaded into Company owned tankers.
12. In the event of a breach of this Agreement by either party, the breaching party shall pay all reasonable attorney's fees, collection fees and costs of the other party incident to any action brought to enforce this Agreement.

This AGREEMENT shall be binding on the parties and their successors and assigns.

IN WITNESS WHEREOF, the parties have caused these present to be executed this 28<sup>th</sup> day of OCTOBER, 2021.

Cindy E. Notaro  
 Witness

By:   
 George Conomos/ President  
 412 BIOSOLIDS PROCESSING FACILITY

Witness

Client Signature/Title

Print Name

# **RESIDUAL HAULING SUMMARY**

RE: Landfair WWTF

From : Cindy Notaro <office@americanpipeandtankinc.com> Thu, Oct 28, 2021 11:49 AM
Subject : RE: Landfair WWTF 2 attachments
To : Dnm Engineering assoc inc <dnengineering@embarqmail.com>
Cc : debbie@alternativephone.com

Good morning, Doug,

Attached is the Agreement for Landfair. As always we will need it signed and returned. I am copying Debbie @ CFAT also. Below is the report.

Oct 28, 2021
11:45 am

AMERICAN PIPE & TANK, INC
Order Entry Invoice Detail Report
Customers CFAT to CFAT
All invoices

Table with 4 columns: Inv. #, Customer ID, Name/Invoice Description, Invoice Information. It lists multiple invoice entries for C.F.A.T./H20 INC. with details on invoice dates and order dates.

Order #:	115977	7100 G/Landfair	Ord Date:	06/11/21
Rep:	84877 CFAT	C.F.A.T./H2O INC.	Inv date:	07/02/21
Order #:	116271	7100 G/ Landfair	Ord Date:	07/01/21
Rep:	85087 CFAT	C.F.A.T./H2O INC.	Inv date:	07/26/21
Order #:	116285	7100 G/Landfair	Ord Date:	07/26/21
Rep:	85313 CFAT	C.F.A.T./H2O INC.	Inv date:	08/20/21
Order #:	117525	7100 G/Landfair	Ord Date:	08/19/21
Rep:	85778 CFAT	C.F.A.T./H2O INC.	Inv date:	10/08/21
Order #:	117078	7100 G/Landfair	Ord Date:	10/07/21

Have a great day!

*Cindy Notaro*

Office Manager  
 American Pipe & Tank Inc  
 418 Cypress Road  
 Ocala, FL 34472  
 Office: 352-687-4281




---

**From:** Dnm Engineering assoc inc <dnmengineering@embarqmail.com>  
**Sent:** Thursday, October 28, 2021 10:20 AM  
**To:** Cindy Notaro <office@americanpipeandtankinc.com>  
**Subject:** Landfair WWTF

Cindy,

Do you emailing an updated sludge hauling agreement and residual hauling summary for the the past 12 months for the Landfair WWTF (FLA010722) located in Ocala, Marion County, Florida?

Thanks and have a great day!

Sincerely,

Douglas A. VanDeursen, P.E.  
 DNM Engineering & Associates, Inc.

# **PERMITTEE INFORMATION**



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

## Detail by Entity Name

Florida Profit Corporation  
C.F.A.T. H2O, INC.

### Filing Information

<b>Document Number</b>	P93000075313
<b>FEI/EIN Number</b>	65-0445576
<b>Date Filed</b>	11/01/1993
<b>Effective Date</b>	10/28/1993
<b>State</b>	FL
<b>Status</b>	ACTIVE

### Principal Address

1552 SW 7th Rd  
OCALA, FL 34471

Changed: 03/21/2013

### Mailing Address

P.O BOX 5220  
OCALA, FL 34478

Changed: 01/24/2006

### Registered Agent Name & Address

DEMENZES, CHARLES  
1552 SW 7th Rd  
OCALA, FL 34471

Name Changed: 01/09/2004

Address Changed: 03/21/2013

### Officer/Director Detail

#### **Name & Address**

Title DPS

DEMENZES, CHARLES  
PO BOX 5220  
OCALA, FL 34478

Title VP



DILLON, DEBORAH  
 PO BOX 5220  
 OCALA, FL 34478

### **Annual Reports**

<b>Report Year</b>	<b>Filed Date</b>
2019	02/07/2019
2020	01/18/2020
2021	01/27/2021

### **Document Images**

<a href="#">01/27/2021 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/18/2020 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/07/2019 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/16/2018 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/13/2017 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/01/2016 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/16/2015 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/26/2014 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/21/2013 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/23/2012 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/10/2011 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/28/2010 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/24/2009 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/31/2008 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/12/2007 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/24/2006 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/02/2005 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/09/2004 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/08/2003 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">03/11/2002 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/03/2001 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">04/03/2000 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">07/09/1999 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">05/13/1998 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">04/28/1997 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">04/30/1996 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">05/01/1995 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>



**Jimmy H. Cowan, Jr., CFA**  
**Marion County Property Appraiser**

501 SE 25th Avenue, Ocala, FL 34471 Telephone: (352) 368-8300 Fax: (352) 368-8336

**2021 Property Record Card**

**14503-000-03**

[GOOGLE Street View](#)

Prime Key: 2255722

[Beta MAP IT+](#)

Current as of 9/16/2021

[Property Information](#)

C F A T H2O INC  
 PO BOX 5220  
 OCALA FL 34478-5220

[Taxes / Assessments:](#)

Map ID: 193

[Millage:](#) 9001 - UNINCORPORATED

[M.S.T.U.](#)

[PC:](#) 91

Acres: 1.81

Situs: 7721 NE 22ND TER OCALA

[Current Value](#)

Land Just Value	\$9,919
Buildings	\$36,049
Miscellaneous	\$2,052
Total Just Value	\$48,020
Total Assessed Value	\$48,020
Exemptions	\$0
Total Taxable	\$48,020

[Ex Codes:](#)

[History of Assessed Values](#)

Year	Land Just	Building	Misc Value	Mkt/Just	Assessed Val	Exemptions	Taxable Val
2020	\$7,693	\$37,232	\$2,052	\$46,977	\$46,977	\$0	\$46,977
2019	\$7,693	\$36,515	\$2,052	\$46,260	\$46,260	\$0	\$46,260
2018	\$7,693	\$35,787	\$2,052	\$45,532	\$45,532	\$0	\$45,532

[Property Transfer History](#)

Book/Page	Date	Instrument	Code	Q/U	V/I	Price
<a href="#">2052/0594</a>	07/1994	06 SPECIAL WARRANTY	8 ALLOCATED	U	V	\$23,000
<a href="#">NA92/0569</a>	12/1992	EI E I	0	U	I	\$27,755
<a href="#">1776/1749</a>	10/1991	31 CERT TL	0	U	V	\$100
<a href="#">LL88/0641</a>	02/1989	EI E I	0	U	V	\$55,466
<a href="#">1395/1321</a>	12/1986	07 WARRANTY	0	U	V	\$100

[Property Description](#)

SEC 15 TWP 14 RGE 22  
 PLAT BOOK Y PAGE 053  
 LANDFAIR UNIT 1  
 TRACTS F.G &  
 COM AT THE SE COR OF TR F LANDFAIR UNIT 1 (Y-53) TH  
 N 00-15-39 W 60 FT TO THE POB TH CONT N 00-15-39 W 20 FT TH  
 N 89-44-21 E 15 FT TH S 00-15-39 E 20 FT TH S 89-44-21 W 15  
 FT TO THE POB

**Parent Parcel:** 14503-000-00

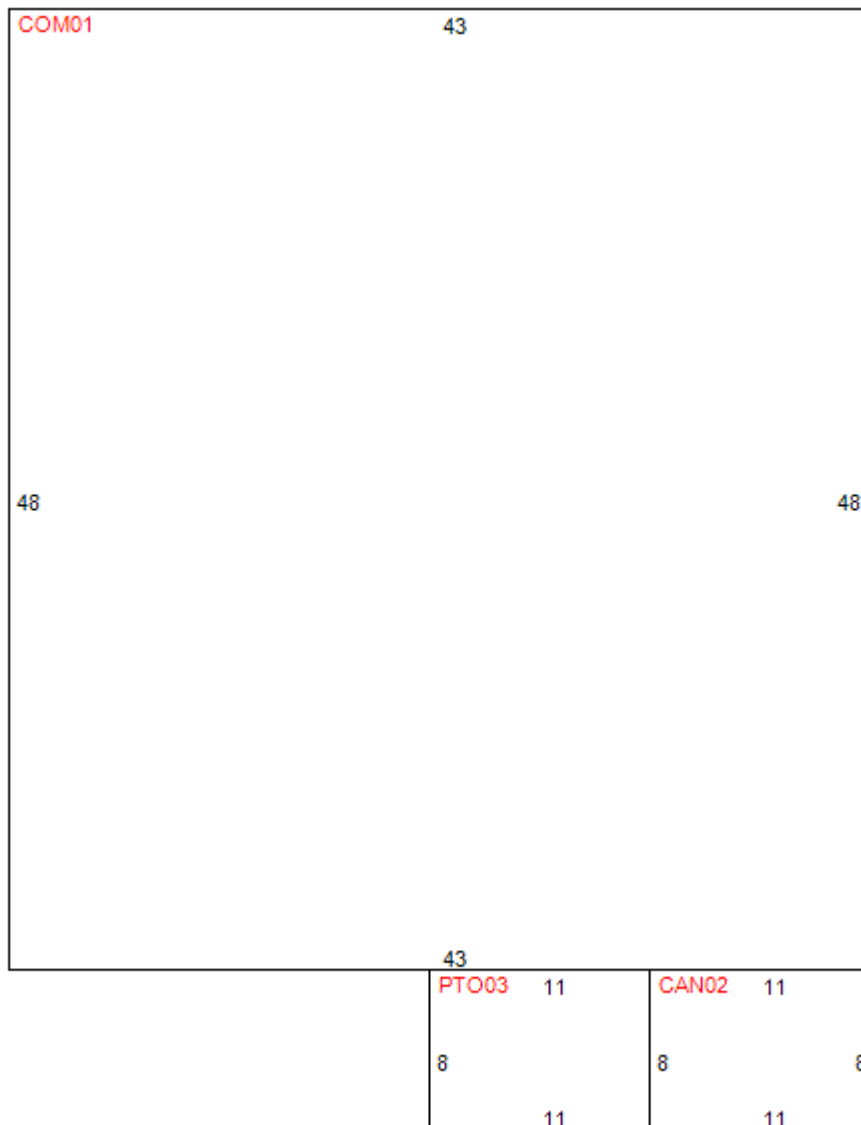
[Land Data - Warning: Verify Zoning](#)

Use	CUse	Front	Depth	Zoning	Units	Type	Rate	Loc	Shp	Phy	Class Value	Just Value
0001		125.0	379.0	RPUD	1.11	AC	8,000.0000	1.00	1.37	0.50	6,083	6,083
9155		125.0	244.0	RPUD	.70	AC	8,000.0000	1.00	1.37	0.50	3,836	3,836
Neighborhood 0874 - ACREAGE E OF JAX RD TO RR											Total Land - Class \$9,919	
Mkt: 3 70											Total Land - Just \$9,919	

[Traverse](#)

**Building 1 of 1**

COM01=L43U48R43D48.  
 CAN02=L11D8R11U8.L11  
 PTO03=L11D8R11U8.



[Building Characteristics](#)

**Structure** 4 - MASONRY NO PILAST  
**Effective Age** 5 - 20-24 YRS

**Year Built** 1987  
**Physical Deterioration** 0%

**Condition** 3  
**Quality Grade** 400 - FAIR  
**Inspected on** 7/28/2016 by 187

**Obsolescence: Functional** 0%  
**Obsolescence: Locational** 0%  
**Base Perimeter** 182

**Exterior Wall** 40 PRECAST PANEL

Section	Wall Height	Stories	Year Built	Basement %	Ground Flr Area	Interior Finish	Sprinkler	A/C
1	9.0	1.00	1987	0	2,064	M00 MINIMUM FINISH	100 %	N N
2	9.0	1.00	1987	0		88 CAN CANOPY-ATTACHD	100 %	N N
3	1.0	1.00	1987	0		88 PTO PATIO	100 %	N N

**Section: 1**

**Elevator Shafts:** 0      **Aprtments:** 0      **Kitchens:** 0      **4 Fixture Baths:** 0      **2 Fixture Baths:** 0  
**Elevator Landings:** 0      **Escalators:** 0      **Fireplaces:** 0      **3 Fixture Baths:** 0      **Extra Fixtures:** 0

Miscellaneous Improvements

Type	Nbr Units	Type	Life	Year In	Grade	Length	Width	
105 FENCE CHAIN LK	649.00	LF	20	1987	2	0.0	0.0	
184 RETAIN WALL	515.00	SF	50	1987	1	0.0	0.0	
Total Value - \$2,052								

Appraiser Notes

TRACT E= LIFT STATION/WRA  
 TRACT G= WRA BY SEWAGE PLANT  
 TRACT F= SEWAGE TREATMENT PLANT

Planning and Building

\*\* Permit Search \*\*

Permit Number	Amount	Issued Date	Complete Date	Description
MA5441	\$10,200	6/1/1987	10/1/1987	BLDG01=WATER PLANT BLDG.

Cost/Market Summary

Buildings R.C.N.	\$59,098	2/8/2012				
Total Depreciation	(\$23,049)					
Bldg - Just Value	\$36,049		<b>Bldg Nbr</b>	<b>RCN</b>	<b>Depreciation</b>	<b>Depreciated</b>
Misc - Just Value	\$2,052	10/20/2016	1	\$59,098	(\$23,049)	\$36,049
Land - Just Value	\$9,919	4/14/2021				
Total Just Value	\$48,020	.				



**Jimmy H. Cowan, Jr., CFA**  
**Marion County Property Appraiser**

501 SE 25th Avenue, Ocala, FL 34471 Telephone: (352) 368-8300 Fax: (352) 368-8336

**2021 Property Record Card**

**14503-000-05**

Prime Key: 2715286

[Beta MAP IT+](#)

Current as of 9/16/2021

[Property Information](#)

C F A T H2O INC  
 PO BOX 5220  
 Ocala FL 34478-5220

[Taxes / Assessments:](#)

Map ID: 193

[Millage:](#) 9001 - UNINCORPORATED

[M.S.T.U.](#)

[PC:](#) 91

Acres: 5.00

[Current Value](#)

Land Just Value	\$250
Buildings	\$0
Miscellaneous	\$0
Total Just Value	\$250
Total Assessed Value	\$250
Exemptions	\$0
Total Taxable	\$250

[Ex Codes:](#)

[History of Assessed Values](#)

Year	Land Just	Building	Misc Value	Mkt/Just	Assessed Val	Exemptions	Taxable Val
2020	\$250	\$0	\$0	\$250	\$250	\$0	\$250
2019	\$250	\$0	\$0	\$250	\$250	\$0	\$250
2018	\$250	\$0	\$0	\$250	\$250	\$0	\$250

[Property Transfer History](#)

Book/Page	Date	Instrument	Code	Q/U	V/I	Price
<a href="#">2052/0594</a>	07/1994	06 SPECIAL WARRANTY	8 ALLOCATED	U	V	\$1,050

[Property Description](#)

SEC 15 TWP 14 RGE 22  
 COM 630 FT N OF SW COR TH E 330 FT TH N 660 FT TH W  
 330 FT TH S 660 FT TO POB TOGETHER WITH INGRESS & EGRESS  
 MAINTENANCE AND UTILITY EASEMENT

**Parent Parcel:** 14503-000-00

[Land Data - Warning: Verify Zoning](#)

Use	CUse	Front	Depth	Zoning	Units	Type	Rate	Loc	Shp	Phy	Class	Value	Just Value
9699		.0	.0	RPUD	5.00	AC	50.0000	1.00	1.00	1.00	250	250	
Neighborhood 0874 - ACREAGE E OF JAX RD TO RR												Total Land - Class	\$250
Mkt: 3 70												Total Land - Just	\$250

[Miscellaneous Improvements](#)

Type	Nbr Units	Type	Life	Year In	Grade	Length	Width
Total Value - \$0							
<a href="#">Appraiser Notes</a>							
SEWER PERCOLATION POND							
<a href="#">Planning and Building</a> <b>** Permit Search **</b>							
Permit Number	Amount	Issued Date	Complete Date	Description			
<a href="#">Cost/Market Summary</a>							
Buildings R.C.N.	\$0	1/1/1800					
Total Depreciation	\$0						
Bldg - Just Value	\$0						
Misc - Just Value	\$0	3/11/2011		<b>Bldg Nbr</b>	<b>RCN</b>	<b>Depreciation</b>	<b>Depreciated</b>
Land - Just Value	\$250	4/14/2021					
Total Just Value	\$250	.					

**PRELIMINARY ENGINEERING  
REPORT**

# ATTACHMENT B

Wastewater Inspection Report - 2021





# 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

December 20, 2021

Charles DeMenzes, Owner  
CFAT H2O Inc.  
7745 NE 22<sup>nd</sup> Terrace  
Ocala, FL 34479  
[charlie@altfo.com](mailto:charlie@altfo.com)

Re: Warning Letter  
Landfair WWTF  
DW facility id # FLA010722  
Marion County

Dear Mr. DeMenzes:

A Compliance Evaluation Inspection was conducted at your facility on November 16, 2021. During this inspection, possible violations of Chapter 403, F.S., Chapter 62-160, Florida Administrative Code (F.A.C.), Chapter 62-600 and Chapter 62-620, F.A.C. were observed.

During the inspection Department personnel noted the following:

- The permit renewal application has not been received by the Department.
- The Chlorine Contact Chamber wall was leaking effluent.
- The Operation and Maintenance Manual was not on site.
- The flow meter calibration was past due.

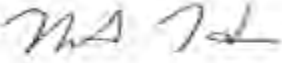
Violations of Florida Statutes or administrative rules may result in liability for damages and restoration, and the judicial imposition of civil penalties, pursuant to Sections 403.121, Florida Statutes.

Please contact Carolyn Hall, at (407) 897-4114, within **7 days** of receipt of this Warning Letter to arrange a meeting to discuss this matter. The Department is interested in receiving any facts you may have that will assist in determining whether any violations have occurred. You may bring anyone with you to the meeting that you feel could help resolve this matter.

Please be advised that this Warning Letter is part of an agency investigation, preliminary to agency action in accordance with Section 120.57(5), Florida Statutes. We look forward to your cooperation in completing the investigation and resolving this matter.

Landfair WWTF; Facility ID No.: FLA010722  
Warning Letter  
Page 2 of 2  
December 20, 2021

Sincerely,



*On behalf of:*

Aaron Watkins, Director  
Central District  
Florida Department of Environmental Protection

AW/ch

Enclosures: Inspection Report (with attachments)  
Exhibit A

cc: Reuben Law, [randkenvironmental@outlook.com](mailto:randkenvironmental@outlook.com)  
Debbie Dillon, [debbie@alternativephone.com](mailto:debbie@alternativephone.com)



## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION WASTEWATER COMPLIANCE INSPECTION REPORT



### Facility Details

<b>Facility Name</b>	Landfair WWTF			<b>WAFR ID</b>	FLA010722		
<b>Physical Address</b>	7745 NE 22 <sup>nd</sup> Terrace			<b>City, State, Zip</b>	Ocala, FL 34479		
<b>County</b>	Marion			<b>Facility Phone #</b>	352-622-4949		
<b>Permit Issued:</b>	4/10/2017			<b>Permit Expiration:</b>	4/9/2022		
<b>Facility Type</b>	Domestic Wastewater			<b>Is the Facility NPDES (Y/N)</b>		No	
<b>Latitude</b>	<b>Degrees °</b>	29	<b>Minutes ‘</b>	16	<b>Seconds “</b>	4.99	
<b>Longitude</b>	<b>Degrees °</b>	82	<b>Minutes ‘</b>	6	<b>Seconds “</b>	16.48	

### Inspection Details

<b>Inspection Type</b>	<b>Entry Date</b>		<b>Exit Date</b>		
CEI	11/16/2021		11/16/2021		
	<b>Entry Time (HH:MM AM/PM)</b>		<b>Exit Time (HH:MM AM/PM)</b>		
Choose an item.	8:55 am		9:41 am		
<b>Sampling Taken (Y/N)</b>	No	<b>RQ#</b>	N/A	<b>QA Conducted (Y/N)</b>	Yes
<b>Name(s) and Title of Field Representatives(s)</b>	<b>Operator Certification</b>		<b>Email</b>		<b>Phone Number</b>
Reuben Law	B-0012483		<a href="mailto:randkenvironmental@outlook.com">randkenvironmental@outlook.com</a>		352-661-8952
Charlie DeMenzes	n/a		<a href="mailto:charlie@altfo.com">charlie@altfo.com</a>		352-843-7790
<b>Name(s) and address of Permittee / Designated Rep.</b>	<b>Title</b>		<b>Email</b>		<b>Phone Number</b>
Charles DeMenzes CFAT H2O Inc. P.O. Box 5220 Ocala, FL 34478	Owner n/a		<a href="mailto:charlie@altfo.com">charlie@altfo.com</a> n/a		352-843-7790 n/a

### Inspector Information

<b>Name(s) and Signature(s) of Inspectors(s)</b>	<b>District Office/Phone Number</b>	<b>Date</b>
Carolyn Hall 	CD 407-897-4114	12/6/2021
n/a	n/a	n/a
<b>Name and Signature of Reviewer</b>	<b>District Office/Phone Number</b>	<b>Date</b>
David Smicherko 	CD 407-897-4344	12/17/2021

### Facility Compliance Eval Areas

<i>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 “*”</i>							
<b>Overall Compliance Determination</b>				Out of Compliance			
NC	*Permit	IC	Laboratory	NC	Facility Site Review	NC	*Effluent Quality
IC	*Compliance Schedules	NC	Sampling	NC	Flow Measurement	IC	*Effluent Disposal
NC	*Records & Reports	IC	Biosolids	IC	*Operation & Maintenance	NC	*Groundwater
IC	SSO Survey	NA	Other	NA	Nutrient Management Plan	NA	Access Control
NA	Site Restrictions & Setbacks	NA	Odor/Nuisance	NA	Site Monitoring	NA	MLPW Disposal
NA	Manure Solids						

<b>Clear Report</b>	<b>Hide/Unhide Place holders</b>	<b>Generate Blank Rows (for field paper setup)</b>	<b>Generate Deficiency &amp; Observation Rows</b>	<b>Finish Inspection Report Form</b>
---------------------	----------------------------------	--	---	--------------------------------------

## 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 checked="" type="checkbox"/>	Permit	Permit Violations - Failure to Submit Timely Permit Renewal Application	The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.	PFSA
<input type="checkbox"/>	Laboratory	Management Practice Violations - Laboratory Not Certified	The laboratory was not certified by the National Environmental Laboratory Accreditation Conference (NELAC).	LNCE
<input type="checkbox"/>	Sampling	Monitoring Violations - Analysis not Conducted	The facility failed to collect and/or analyze samples as required by permit or enforcement action.	ANCV
<input type="checkbox"/>	Sampling	Monitoring Violations - Failure to Monitor for Toxicity Requirements	The facility failed to collect and/or analyze routine or follow-up toxicity samples.	FTOX
<input type="checkbox"/>	Records and Reports	Management Practice Violations - Failure to Develop Adequate SPCC Plan	The facility failed to develop or maintain their Spill Prevention Control and Countermeasures (SPCC) plan.	FSPC
<input type="checkbox"/>	Records and Reports	Management Practice Violations - Failure to Maintain Records	The facility failed to maintain records for the required retention period.	FMRR
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to Notify	The permittee failed to notify the department of any event or activity that requires notification as required by permit or rule.	RSWP
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to Submit DMRs	The permittee failed to submit any DMR required by rule, permit, or enforcement action in a timely manner.	FDMR
<input type="checkbox"/>	Records and Reports	Reporting Violations - Failure to submit required report (non-DMR, non-pretreatment)	The facility failed to submit any report required by rule, permit, enforcement action or inspection activity except for DMRs.	FRPT
<input type="checkbox"/>	Facility Site Review	Management Practice Violations - Improper Land Application (non-503, non-CAFO)	The land application system was not being maintained.	LASN
<input type="checkbox"/>	Flow Measurement	Monitoring Violations - No Flow Measurement Device	The facility failed to install a flow measurement device, an approved flow measurement device, or a working flow measurement device.	NOFL
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - Improper Operation and Maintenance	The facility failed to follow their operation and maintenance plan/manual.	IONM
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - Inflow/Infiltration (I/I)	The facility had an inflow and infiltration problem causing collection system issues and/or operational issues.	ININ
<input type="checkbox"/>	Operation and Maintenance	Management Practice Violations - No Licensed/Certified Operator	The facility was being operated without a certified operator or by an operator that is not licensed for the size of plant.	ONCO
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute toxicity has been documented through follow-up tests.	EATX
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent chronic toxicity has been documented through follow-up tests.	ECTX
<input type="checkbox"/>	*Effluent Quality	Effluent Violations - Failed Toxicity Test	Persistent acute or chronic toxicity has been documented in the effluent through the use of routine and follow-up tests.	ETOX
<input checked="" 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(I)(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

## Permit

<b>Compliance Rating</b>	Out of Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
*Is the permit current?	Yes			
Is a copy of the permit available onsite?	Yes			
Is the facility operated in accordance with the permit?	Yes			
*Was the facility constructed or modified with an appropriate or valid permit issued by the Department?	N/A			
Has the facility submitted the permit renewal application 180 days prior to the expiration date?	No			
If the permittee for the facility has changed did the department receive notification of this change?	N/A			
If the permit is accompanied by a Consent Order or Administrative Order are, they abiding by the conditions of the order?	Yes			
Is wastewater from a portion of the treatment process diverted with Department approval?	Yes			
*Is the facility discharging to waters of the state with an appropriate FDEP permit?	N/A			
*Was the facility free from unpermitted discharge, bypass, collection system, or residuals with a high potential for water quality or health impacts?	Yes			
Is the facility free from any Permit violation not listed above that needs to be addressed?	N/A			
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*”</i></li> <li>• <i>Questions with “No” responses indicate deficiencies</i></li> <li>• <i>Questions with “N/A” responses do not apply to the facility</i></li> </ul>				
<b>Deficiencies &amp; Corrective Actions:</b>				
The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration. [62 620.335(1) F.A.C., 62-620.410(5) F.A.C., PFSA]	Deficiency: (Narrative) <b>The permit renewal application was due by October 11, 2021 and has not been submitted.</b>			
	Corrective Action(s): (Narrative) Submit the permit application by December 31, 2021.			
<b>Observations:</b>				
A copy of the current permit was available on site. The facility is under Consent Order 21-0360 for failure to meet effluent limit requirements of Total Suspended Solids (TSS) and Total Nitrogen (TN) limits.				

## Compliance Schedule

<b>Compliance Rating</b>	In Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
If the facility has a compliance schedule in a permit, Administrative Order or Enforcement Action are they in compliance with the schedule?	Yes			
*Are the Compliance Date(s), Construction Milestone(s), Enforcement Order Schedule(s) or Final Compliance Date started/completed within 90 days of the due date?	N/A			
Has the facility completed construction and submitted a Notification of Completion of Construction for Wastewater Facilities or Activities (Form 62-620.910(12)), if required?	N/A			

Has the Notification of Availability of Record Drawings and Final Operation and Maintenance Manuals (Form 62-620.910(13)) been submitted as required?	N/A
If the facility is under a Toxicity Corrective Action Plan, are they in compliance with the plan?	N/A
Is the facility free from any Compliance Schedule violation not listed above that needs to be addressed?	Yes
<ul style="list-style-type: none"> <li>• Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</li> <li>• Questions with "No" responses indicate deficiencies</li> <li>• Questions with "N/A" responses do not apply to the facility</li> </ul>	
<b>Observations:</b>	
At the time of inspection, the facility has a compliance schedule to use EZ DMR and it is being used.	

## Laboratory

<b>Compliance Rating</b>	In Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
Is there a current copy of the laboratory certification onsite?	Yes			
If the facility has an onsite laboratory does it have a Florida Department of Health Environmental Laboratory Certification Program certification?	N/A			
Facility DOH Certification #	Click or tap here to enter text. N/A			
Contract Lab Name and DOH Certification #	Aqua Pure E83265 Yes			
Does the onsite laboratory use sample analysis methods prescribed in 40 CFR part 136 or a test method that has gone through the EPA alternative method approval process?	N/A			
Does the facility have standard operating procedures that follow the methods set in 62-620.10(18) F.A.C. including 40 CFR Part 136; including required instrumentation, glassware cleaning, reagent/standard use, and troubleshooting procedures?	N/A			
Does the facility have a QA/QC program with a written QA/QC manual as required by 40 CFR 122.41 that is up to date and available for review?	N/A			
Does the facility follow the procedures set in the QA/QC manual; including instrument calibration/maintenance, checks on standard solutions, sample analysis precision/accuracy limits on a prescribed bases and QC samples (duplicate, spiked, blank in at least 10%)?	N/A			
Is the detailed record complete and available for review for each set of analyses performed including the order of calibration, QA/QC, bracketing, and samples analyzed?	N/A			
Does the facility have QA/QC records on the reagent preparation, instrument calibration/maintenance, incubator temperature and purchase of laboratory supplies?	N/A			
Does the facility's laboratory documentation of the sample results use qualifier codes when sample QA/QC fall outside acceptable precision and accuracy limits set in the QA/QC manual?	N/A			
Does the facility's laboratory take and record corrective actions or trouble shooting steps when data falls out of the precision and accuracy limits?	N/A			
Are records of standard(s) and reagent(s) preparation maintained at the laboratory?	N/A			
Is the laboratory maintaining adequate records for reagent preparation(s)?	N/A			
Does the laboratory have a system for uniformly recording, correcting, processing and reporting data; including formulas, significant figures, rounding rules, units, cross-checking calculations?	N/A			

Is the facility's laboratory adequate for analyzing samples; including pure water, clean bench space for instrument use/storage free of contamination, necessary equipment, vibration free area, ventilation, humidity and temperature control?	N/A
Does the Laboratory meet NELAC and EPA standards including; dry and clean sample storage locations, sample custodian(s) to ensure upon receipt of samples, proper sample storage, preservation and custody documentation?	N/A
Does the facility use appropriate standards that are prepared in volumetric glassware, checked against reliable primary standards, labeled properly, stored in clean containers, and discarded when expired or degraded?	N/A
Does the facility's laboratory analyst(s) demonstrate competency and appropriate training; including ability to follow procedures, ability to meet precision and accuracy limits, knowledge of equipment and analytical methods.	N/A
If the facility test requires temperature measurement, is there a thermometer present that is routinely calibrated against NIST thermometer within calibration date range?	N/A
Is the sample refrigerator temperature correct to meet the preservation requirements for the samples stored within?	N/A
Is the facility free from any Laboratory violation not listed above that needs to be addressed?	N/A
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</i></li> <li>• <i>Questions with "No" responses indicate deficiencies</i></li> <li>• <i>Questions with "N/A" responses do not apply to the facility</i></li> </ul>	
<b>Quality Assurance Evaluation: Lab Report QA Audit Checklist</b>	
No deficiencies were noted during the Lab Report QA review conducted on 12/08/2021.	
<b>Observations:</b>	
The facility does not have an onsite laboratory, samples are collected and sent to Aqua Pure.	

## Sampling

<b>Compliance Rating</b>	Out of Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
In facility log books or other documentation, are the daily records appropriately recorded, including composite sampler or other temperatures, and daily calibration of meters.	No			
Does the facility maintain records of their daily calibration of their pH meter, chlorine meter, dissolved oxygen meter?	Yes			
Does the facility maintain records of their daily checks of their in-line meter(s) with their field meter(s)?	N/A			
Do field sheets document that the collection and analysis of field tests were analyzed within the 15-minute holding time.	Yes			
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (calibration frequency and sample bracketing for pH, total residual chlorine (TRC), turbidity, DO)	No			
Are all the primary and secondary standards used to calibrate and verify meters, used prior to expiration dates and verified against primary standards appropriate for pH, TRC, turbidity, DO?	Yes			
Are the inline meters reading within established limits compared to the bench meters? (TRC ≤ 20%, Turbidity ≤ 20%, pH 0.2 SU)	N/A			

Were safe access points for obtaining representative influent/effluent samples available?	Yes
Are influent sampling points put prior to internal facility return lines including supernatant, filter backwash and return activated sludge (RAS)?	Yes
Are samples being collected and analyzed as required by the permit or enforcement action; including location, type (grab/composite), time, and frequency?	Yes
Are samples being collected in the proper containers, preserved and analyzed in appropriate hold times in accordance with 40 CFR Part 136, Table II?	Yes
If the facility has a composite sampler with cooling system at the influent/effluent sampling location is there a thermometer present in the sampler that is annually checked against NIST thermometers?	N/A
Is composite sampling being conducted appropriately; including purging, sampling velocity at least 2fps, clean tubing, individual sample volume of at least 100 mL, sample storage of <6°C preservation, hold times and representative samples?	N/A
Did the facility have their Chain of Custody records?	Yes
If sampling was conducted and observed during the inspection did the sampling follow DEP SOP requirements?	N/A
Did the facility collect and/or analyze routine or follow-up toxicity samples as required by permit or enforcement action?	N/A
Is the facility free from any Sampling violation not listed above that needs to be addressed?	Yes
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*”</i></li> <li>• <i>Questions with “No” responses indicate deficiencies</i></li> <li>• <i>Questions with “N/A” responses do not apply to the facility</i></li> </ul>	
<b>Deficiencies &amp; Corrective Actions:</b>	
In facility log books or other documentation are the daily records appropriately recorded including; composite sampler or other temperatures, and daily calibration of meters.[62-160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., DEP SOP FD 1000-6000]	Deficiency: (Narrative) <b>The following items were noted during the QA review preformed on 12/8/21 for Field Sheets, Chain of Custody (COC), and Sampling Calibration/Verification Records:</b> - time is not documented for calibrations - units are not documented for standards - acceptance criteria is not documented for pH and TRC - no indication if verification or calibration passed - no notes section documenting maintenance or corrective actions -pH is not bracketed. pH readings are above 7 s.u. and a buffer of 10 s.u. should be used to bracket the data and ensure meter accuracy. - matrix (GW, WW, etc.) is not indicated on the COC - sample kits are provided and there is no sample kit ID or lot numbers of preservatives documented on the COC.
	Corrective Action(s): (Narrative) An example calibration/verification field sheet was provided to the operating company on 12/9/21 along with a list of the findings to update the calibration records. No further action will be required at this time.
Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (calibration frequency and sample bracketing for pH, total residual chlorine (TRC), turbidity, DO)[62-	Deficiency: (Narrative) pH bracketing is not complete as required by DEP SOP FT 1100.
	Corrective Action(s): (Narrative) Include the use of a buffer of 10 s.u. to bracket the pH readings from 4 s.u. to 10. s.u..



160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., DEP SOP FT 1000 ]	
<b>Quality Assurance Evaluation: Field Sheets and Chain of Custody &amp; Sampling Calibration Verification Log QA Audit Checklists</b>	
See the above deficiencies found during the QA review completed 12/8/2021.	
<b>Observations:</b>	
See the above deficiencies found during the QA review completed 12/8/2021.	

## Records and Reports

<b>Compliance Rating</b>	Out of Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
Are the entries in the operator logbook clear, concise, informative and relevant?	Yes			
Was copy of the current O&M manual available at the time of the inspection?	No			
Is there a current operator license?	Yes			
Is there a current RPZ certification?	Yes			
Is there a copy of the current Operating Protocol for Part 3 Reuse?	N/A			
Does the facility have and maintain their Spill Prevention Control and Counter measurement (SPCC) Plan?	Yes			
Are all required documents and reports available at the plant well organized and complete?	Yes			
Does the facility maintain the records onsite for the required retention period?	Yes			
Discharge Monitoring Reports (DMRs) Review Period	09/01/2020-09/30/2021 Yes			
Are the discharge monitoring reports completed properly?	Yes			
Are the DMRs submitted on the proper form?	Yes			
Is an authorized representative signing the DMRs?	Yes			
Has the permittee submitted an annual Reclaimed Water and/or Effluent Analysis Report?	N/A			
Does the facility submit their monitoring results for Giardia and Cryptosporidium in a timely manner?	N/A			
A review of the last toxicity test did not reveal any deficiencies?	N/A			
Has the facility submitted all report(s) during the review period that are required by rule, permit, enforcement action or inspection activity, other than DMRs?	Yes			
*Has the facility timely submitted DMRs as required by rule, permit, or enforcement action? (If either reports are >30 days late meets SNC criteria)	Yes			
Has the facility submitted all final compliance schedule reports as required by rule, permit, or enforcement action?	Yes			
Has the permittee notified the Department of any event or activity that requires notification as required by permit or rule?	Yes			
*Are records or reports free from falsified data?	N/A			
Is the facility free from any Records and Reports violation not listed above that needs to be addressed?	Yes			

- Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “\*”
- Questions with “No” responses indicate deficiencies
- Questions with “N/A” responses do not apply to the facility

**Deficiencies & Corrective Actions:**

Was copy of the current O&M manual available at the time of the inspection?[62-600.720 F.A.C., 62-620.350 F.A.C.]	Deficiency: (Narrative) <b>At the time of inspection, a copy of the Operation and Maintenance Manual was not on site.</b>
	Corrective Action(s): (Narrative) Please provide a copy of the operation and maintenance manual to the department by email.

**Quality Assurance Evaluation: DMR Part A, DMR Part B and Groundwater DMR QA Audit Checklists**

No errors were found during the QA review completed on 11/15/2021.

**Observations:**

The RPZ certification was done by Ocala Back Flow and Prevention on 2/21/21. The operator certification for Ruben Law was on site (B-0012483) The operator’s logbook was bound and numbered, with relevant sampling and maintenance logged.

## Facility Site Review

Compliance Rating	Out of Compliance			
Does this section apply to the facility?	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
Questions				
The headworks was free from excessive corrosion.	Yes			
The headwork is free from evidence of recent overflows.	Yes			
Is the odor control system operational at the headworks?	N/A			
Is the comminutor operational at the headworks?	N/A			
Is the grit separator operational at the headworks?	N/A			
Is the bar screen cleaned on a routine basis?	Yes			
Is the mechanical bar screen functioning as intended?	N/A			
Are screenings and grit being collected from the headworks in suitable containers?	Yes			
Rags, grit and/or screening are being disposed of properly.	Yes			
Are screenings and grit from the headworks being disposed at a Class I Landfill?	Yes			
Are records of the disposal of the screenings and grit collected at the headworks available?	N/A			
The leachate from the screening dumpster(s) is piped to the headworks and not onto the ground.	N/A			
Is the clarifier free from solids discharging over the weir(s)?	Yes			
Is the clarifier free from excessive sand and/or grit accumulation?	Yes			
Is the clarifier free from excessive scum, algae and/or trash overflowing the weir?	Yes			
Does the skimmer appear to be functional in the clarifier?	Yes			
Is the sludge collector and pump functional in the clarifier?	Yes			
Are the clarifier weir(s) level?	Yes			
Is the clarifier free from short circuiting with loss over the weir?	Yes			
Are the aeration basins diffusers free from clogs and providing adequate mixing?	Yes			
Was the time clock or manual controls for the aeration system operational at the time of the inspection?	Yes			

Is the RAS line properly located?	Yes
The RAS line was free from excessive splashing that could cause solids to be discharged outside the tank.	Yes
The mixed liquor (MLSS) in the oxidation ditch was appropriately colored with no black coloring.	N/A
Is even distribution of air observed in the aeration basin?	Yes
Are the air line(s) to the aeration basin(s) free from leaks?	Yes
The brushes and paddles in the oxidation ditch were all in good working order.	N/A
Is the velocity in the oxidation ditch sufficient to prevent settling of solids?	N/A
Are dual blower motors present as required by rule?	Yes
Are the blower motors equipped with belt guards?	Yes
The blower motors are free from excessive noise.	Yes
Are all the blower motors present and operational at the time of the inspection?	Yes
Are spare parts and a second standby blower motors stored onsite?	N/A
Is the electrical box wiring for the blower motors adequately protected?	Yes
Were the tank contents in the aerobic digester(s) well mixed?	Yes
Are the digester(s) free from excessive odors and/or foaming?	Yes
Is the digester at the appropriate operational capacity?	Yes
Are there two functioning pumps in the surge tank(s)?	Yes
What was the biomass color of the trickling filter at the time of the inspection?	Click or tap here to enter text. N/A
Is trickling filter media free from excessive ponding?	N/A
Are center columns and distribution arms of the trickling filter free from leaks?	N/A
Are the distribution arm orifices free from clogs, trash and/or scum resulting in uneven distribution of flow on the trickling filter media?	N/A
Is the RBC free from black biomass indicating solids and/or BOD loading?	N/A
Is the RBC free from white biomass indicating the presence of bacteria, which feed on sulfur compounds?	N/A
Is the RBC free from excessive grinding/whining noise(s) from the motor, drive shaft, and bearings?	N/A
Are all RBC rotating disks and/or paddles present and in good working?	N/A
Is the RBC unit drive shaft free from excessive vibration?	N/A
Are all the aerators in the lagoon operational at the time of the inspection?	N/A
Is the base of the lagoon free from lateral seepage at the time of the inspection?	N/A
Does the treatment lagoon have adequate freeboard space?	N/A
Is the treatment lagoon properly secured to prevent unauthorized access?	N/A
Is the treatment lagoon free from excessive foaming?	N/A
Are the treatment lagoon berms properly stabilized?	N/A
Is the Chlorine Contact Chamber (CCC) effluent clear and free from scum, solids accumulation and debris?	Yes
Are the baffles in the CCC functioning as intended?	Yes
Does the chlorine injection point provide optimal mixing to occur in the CCC?	Yes
Is the CCC chlorine pump operational, providing adequate chlorine supply for disinfection and at the permitted location?	Yes
Is the chlorine storage area protected from the elements?	Yes
Is the alarm indicator for the chlorine system operational?	N/A
Is the chlorine supply covered in frost indicating an issue with the system?	N/A
Is the fan inside the chlorine room operational?	N/A
Are the chlorine scales operational?	N/A
Is an operational Self-Contained Breathing Apparatus (SCBA) available for the chlorine room?	N/A

Are the chlorine gas cylinders properly secured?	N/A
Is a fresh supply of ammonia available to test for leaks in the gas chlorination system?	N/A
Do the UV ballast control boxes have adequate ventilation?	N/A
Does the plant staff have access to UV protective eyeglasses?	N/A
Is the facility maintaining adequate records of UV lamp operating hours?	N/A
Are the UV lamps and ballast being cleaned in accordance with the manufacturer's recommendation?	N/A
Does the facility have an adequate inventory of spare parts for the UV system?	N/A
Is the facility conducting routine performance checks on the UV system?	N/A
Is the UV intensity monitoring equipment operational?	N/A
Is the stilling well free from a thick layer of sludge and/or trash?	Yes
Is the chlorine contact chamber providing a minimum contact time of 15 minutes?	Yes
Chlorine and SO2 cylinders marked with empty/full tags?	N/A
Is the automatic SO2 feed operational within de-chlorination process?	N/A
Is the SO2 system free from frost within de-chlorination process?	N/A
Are the bisulfite (SO2) gas cylinders properly secured for de-chlorination?	N/A
Was there adequate ventilation in the SO2 room?	N/A
Is the filter media free from solids that could cause plugging and/or overflow?	N/A
Is the land application system being maintained?	Yes
If an injection well was plugged or abandoned, was it completed appropriately with DEP approval?	N/A
If a well was constructed, was it permitted prior to beginning construction and constructed as required by permit?	N/A
Is the injection well Operation and Maintenance done satisfactorily?	N/A
Is there adequate access to all monitoring locations?	Yes
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?	No
Are the facility grounds clean and well maintained?	Yes
Is the required signage adequate?	Yes
The facility was free from odors emanating from the facility.	Yes
The facility was free from excessive noise which could be heard beyond the boundaries of the facility.	Yes
Is the facility providing safety measures at all times including adequate lighting?	Yes
The facility is disposing of sludge appropriately, with no sludge being disposed of on the facility grounds.	Yes
Was an alternative power source available at the facility?	N/A
Is the onsite generator tested under load on a monthly basis?	N/A
Are records available for the testing of the generator?	N/A
Is the area around the lift station(s) maintained?	Yes
Are there warning signs with emergency contact information on and/or around the lift station(s)?	N/A
Does the facility have a fence around their lift station(s)?	N/A
Is the gate around the lift station and the cover to the lift station locked?	N/A
Is the cover to the lift station(s) free from safety hazards?	Yes
Are there two functioning pumps that alternate?	Yes
Is the electrical panel in good working order and free from needed repair and/or replacement?	Yes
Was the collection system or lift station free from offsite objectionable odors?	Yes
The lift station visual and audio alarm operating satisfactory?	Yes
Are the potable water supply lines and the facility free from cross connections?	Yes
Is an RPZ in place and free of leaks on all potable water supply lines?	Yes
Is there a record of testing available on the RPZ?	Yes

Is the facility free from any Facility Site Review violation not listed above that needs to be addressed?	Yes
<ul style="list-style-type: none"> <li>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</li> <li>Questions with "No" responses indicate deficiencies</li> <li>Questions with "N/A" responses do not apply to the facility</li> </ul>	
<b>Deficiencies &amp; Corrective Actions:</b>	
Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?[62-600.410 F.A.C., 62-620.300 (5) F.A.C., 62-620.610(7) F.A.C.]	Deficiency: (Narrative) <b>At the time of inspection, the chlorine contact chamber was weeping.</b>
	Corrective Action(s): (Narrative) Repair the leak and provide photos to the department by email
<b>Observations:</b>	
<p>At the time of inspection the facility is fenced, locked, and advisory signs are present. The facility has 6 operational lift stations throughout the community, with 2 pumps per station. Influent enters through a manual barscreen into the surge tank. Screening are cleaned at each site visit and disposed of in a covered screening container. There are 2 operational pumps in the surge tank with a splitter box diverting flow to one of two aeration basins. The aeration basins appeared to have adequate mixing. There are 2 operational blowers that run the aeration basins housed. There is one clarifier present with some ashing on top. The skimmer was working, and the stilling well was clean. No pop ups were observed. The weirs were level and effluent leaving the weir was clear. There is one chlorine contact chamber with baffles present. One sodium hypochlorite pump was present and operational. Effluent leaving the chlorine contact chamber was clear. There is one digester present that was recently hauled. Storage was available and no odors or vectors were detected.</p>	

## Flow Measurement

<b>Compliance Rating</b>	Out of Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
Is there easy access to flow meter?	Yes			
Is the flow meter in the correct location?	Yes			
Is the flow measuring device installed properly?	Yes			
Is the flow meter calibrated at least annually and is it current?	No			
When was the flow meter last calibrated?	2020 Yes			
Is the flow measurement device operating within +/- 10% of the actual flow?	N/A			
Is the flow meter operating properly at the time of the inspection?	Yes			
The chart recorder and/or totalizer for the flow meter was operational at the time of the inspection.	N/A			
The elapsed time meters on the lift station pumps were functioning.	N/A			
The flow entering the convergence section of the Parshall Flume was free of excessive turbulence.	N/A			
Is the facility free from any Flow Measurement violation not listed above that needs to be addressed?	Yes			
<ul style="list-style-type: none"> <li>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</li> <li>Questions with "No" responses indicate deficiencies</li> <li>Questions with "N/A" responses do not apply to the facility</li> </ul>				
<b>Deficiencies &amp; Corrective Actions:</b>				
	Deficiency: (Narrative)			

Is the flow meter calibrated at least annually and is it current?[ 62-600.200(25) F.A.C.]	<b>The flow meter calibration was past due.</b>
	Corrective Action(s): (Narrative) A copy of the flow calibration was provided on 12/15/2021 by Reuben Law.
<b>Observations:</b>	
See deficiency above.	

## Operations and Maintenance

<b>Compliance Rating</b>	In Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
Does the facility have adequate plant staffing?	Yes			
Is a certified operator operating the wastewater treatment facility with the appropriate license level for the size of the plant?	Yes			
Is the operator performing treatment plant operation and maintenance duties in a responsible and professional manner?	Yes			
Is the plant O&M log maintained in a hard-bound book with consecutive page numbering, or another approved format?	N/A			
Does the facility have an O&M manual, and does the facility's O&M manual reflect the current configuration of the facility?	N/A			
*Is the facility operated in accordance with the O & M Manual? (If there is a high potential for water quality or health impacts meets SNC criteria)	N/A			
Is the facility maintaining a log that documents routine equipment maintenance?	Yes			
Is the plant free of any treatment components that are in disrepair that would provide for unsafe operation?	Yes			
Is the facility without an inflow and infiltration problem which would cause collection system and/or operational issues?	Yes			
*Does the facility replace malfunctioning equipment, which can result in a high potential for water supply quality or health impacts?	Yes			
Dike berms appeared to be in satisfactory condition.	N/A			
Hand rails/catwalks/ladders were in good working order providing for safe conditions.	Yes			
The liner(s) in the containment pond(s) appeared to be functioning as intended.	N/A			
The plant operator is fulfilling the minimum site requirements as required by the Permit.	Yes			
Preventative maintenance is being performed in the accordance with the manufacturer's recommendations.	N/A			
The facility maintains an adequate spare parts inventory.	N/A			
Swales were being maintained.	N/A			
Is the facility free from any Operations and Maintenance violation not listed above that needs to be addressed?	Yes			
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</i></li> <li>• <i>Questions with "No" responses indicate deficiencies</i></li> <li>• <i>Questions with "N/A" responses do not apply to the facility</i></li> </ul>				
<b>Observations:</b>				

The O&M manual could not be evaluated since it was not on site at the time of inspection. See deficiency under records and reports section.

## Effluent Quality

<b>Compliance Rating</b>	Out of Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	<b>Yes</b>	<input type="radio"/>	<b>No</b>
<b>Questions</b>				
DMR review period:				09/01/2020-09/30/2021 <b>Yes</b>
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).				TSS and TN <b>Yes</b>
*Did the effluent limits exceed the Technical Review Criteria less than two times in six months?				<b>Yes</b>
*Are the effluent limits without exceedances four out of six months (chronic criteria)?				<b>Yes</b>
*Did the total residual chlorine levels meet disinfection limits? (If below required minimum 10% or more of the time in a rolling 6 month period, meets SNC criteria)				<b>Yes</b>
Was the facility free of a discharge of wastewater that resulted in a fish kill?				<b>Yes</b>
*Is persistent acute toxicity documented through follow-up tests?				<b>N/A</b>
*Is persistent chronic toxicity documented through follow-up tests?				<b>N/A</b>
*Is persistent acute or chronic toxicity documented in the effluent through the use of routine and follow-up tests?				<b>N/A</b>
Does the facility meet the permit or enforcement narrative effluent limitation(s)? (Non-DMR visible sheen defined as iridescence present so as to cause taste or odor, or otherwise interfere with the beneficial use of the receiving water)				<b>No</b>
Is the effluent free from excessive (suspended solids, foam, grease, scum) in the discharge stream?				<b>Yes</b>
*Was the facility free from any other violation with a high potential for water quality or health impacts?				<b>Yes</b>
Is the facility free from any Effluent Quality violation not listed above that needs to be addressed?				<b>Yes</b>
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</i></li> <li>• <i>Questions with "No" responses indicate deficiencies</i></li> <li>• <i>Questions with "N/A" responses do not apply to the facility</i></li> </ul>				
<b>Deficiencies &amp; Corrective Actions:</b>				
The facility violated a permit or enforcement narrative effluent limit. [ 403.161(1)(b) F.S., 62-600.420 F.A.C, 62-600.440 F.A.C, 62-600.445 F.A.C, 62-600.510 F.A.C., 62-600.520 F.A.C. , XNEV]	Deficiency: (Narrative) <b>The facility is not meeting the Total Nitrogen interim limits of Consent Order 21-0360. See the attached Exhibit A for the tables of exceedances.</b>			
	Corrective Action(s): (Narrative) The facility continues to not demonstrate the ability to meet the final permit limits. The interim limits of the Consent Order (21-0360) executed on 5/11/2021 will be revised in an amendment to the CO.			
<b>Observations:</b>				

The facility is in compliance with the interim TSS limits of Consent Order 21-0360 however they are not in compliance with the final permit limits of permit (FLA010722-007-DW3P) for TSS annual average.

## Effluent Disposal

<b>Compliance Rating</b>	In Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
Are discharge location(s) as per permit?	Yes			
What type of reuse is the facility approved for?	Click or tap here to enter text. N/A			
Has a cross connection control program been implemented within the areas where reclaimed water is provided for use (Part III, VII)?	N/A			
Is all reclaimed water piping and equipment color-coded Pantone purple (522C)?	N/A			
Hose bibbs met access restrictions and other requirements.	N/A			
Reclaimed water valves and outlets were appropriately tagged and /or labeled.	N/A			
Are advisory signs posted in English and Spanish in areas where non-potable Public Access Reuse water is being applied (Part III, VII)?	N/A			
Is the reclaimed water retained on the application site?	N/A			
No significant ponding was observed on the reclaimed water application site.	N/A			
There was no aerosol mist leaving the boundaries of the land application?	N/A			
There was no evidence of solids loss in the treatment process or from the plant?	Yes			
The RIBs and/or percolation ponds were free from excessive vegetation and sludge?	Yes			
The percolation ponds were free from accumulated sludge.	N/A			
Does the percolation ponds have at least 3 ft of freeboard?	Yes			
The absorption field was free from excessive vegetation.	N/A			
Do the reclaimed water storage ponds have adequate freeboard?	Yes			
Are RIBs well maintained and free from excessive vegetation?	Yes			
There was no evidence of a bypass or failure at the effluent storage and/or disposal site(s)?	Yes			
Are all effluent disposal areas such as RIBs, ponds, and sprayfields being loaded and rested per permit conditions?	Yes			
The disposal pond berms were free from excessive growth or vegetation.	Yes			
There was no evidence of a bypass or failure from the storage ponds observed during the inspection.	Yes			
No unauthorized discharge to waters of the state was observed during the inspection.	Yes			
Are the sprinklers functioning as intended for the absorption field(s) or sprayfield(s)?	N/A			
The facility is meeting the minimum setback distances.	Yes			
Does the facility maintain a supply of spare parts for the absorption field(s) or sprayfield(s)?	N/A			
The effluent disposal and/or storage area was free from sinkholes.	Yes			
Are the sprayfields free from grazing dairy cattle?	N/A			
The sprayfield was free from ponding.	N/A			
The sprayfield was free from excessive vegetation.	N/A			
Edible food crops were being properly irrigated with reclaimed water.	N/A			
What cover crop and/or vegetation is planted on the reclaimed water area(s)?	Click or tap here to enter text. N/A			



*The disposal system was being operated as designed with a low potential for water quality or health impacts.	<b>Yes</b>
*There was no unauthorized operation or modification of the disposal system.	<b>Yes</b>
Fencing around the effluent disposal site for access control was complete and in good repair.	<b>Yes</b>
There were no dead animals observed in the discharge stream.	<b>Yes</b>
Is the facility free from any Effluent Disposal violation not listed above that needs to be addressed?	<b>Yes</b>
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*”</i></li> <li>• <i>Questions with “No” responses indicate deficiencies</i></li> <li>• <i>Questions with “N/A” responses do not apply to the facility</i></li> </ul>	
<b>Observations:</b>	
The facility is currently bypassing the holding pond with department authorization to clean out the holding pond of vegetation and buildup of solids. This removal is also ordered in Consent Order 21-0360. The facility has 2 RIBs near the water plant. Access is controlled and vegetation is maintained. RIBs are loaded with sprayheads, sprayheads are popped off on one RIB for loading of the pond with the bypass. There is sufficient freeboard in each RIB.	

## Biosolids

<b>Compliance Rating</b>	In Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	<b>Yes</b>	<input type="radio"/>	<b>No</b>
<b>Questions</b>				
Does the facility's method of biosolids use or disposal match what is allowed in the facility permit (i.e., landfill, land application, distribution and marketing, transfer to another facility, biofuel/bioenergy)?	<b>N/A</b>			
Does the permittee keep records of biosolids quantities for five years, as applicable (quantities generated, received from source facilities, treated, distributed and marketed, land applied, used as a biofuel or for bioenergy, transferred to another facility, or landfilled)?	<b>Yes</b>			
Are biosolids quantities reported on the facility RMP-Q DMR?	<b>Yes</b>			
Are the biosolids quantities reported on the RMP - Q DMRs correct and accurate?	<b>Yes</b>			
The facility's treatment, management, transportation, use, land application, or disposal of biosolids does not result in objectionable odors, i.e., does not result in a violation of the odor prohibition in subsection 62-296.320(2)	<b>N/A</b>			
If there is an objectionable odor, please describe the odors characteristics, frequency, duration, and migration, etc.	Click or tap here to enter text. <b>N/A</b>			
Is the storage of biosolids or other solids at this facility in accordance with the Facility Biosolids Storage Plan?	<b>N/A</b>			
Does the treatment facility ensure no biosolids are spilled from or tracked off the treatment facility property by the hauling vehicle?	<b>N/A</b>			
The biosolids for this facility are classified as _____: (AA, A, and/or B)	Click or tap here to enter text. <b>N/A</b>			
Does the class of biosolids produced for beneficial use match the authorized class in the facility permit (Class AA, A, or B)?	<b>N/A</b>			
Does the facility use the biosolids pathogen reduction alternative option identified in the permit?	<b>N/A</b>			
Are all the operational and process parameters monitored to demonstrate compliance for pathogen reduction?	<b>N/A</b>			
Do the biosolids meet the treatment requirements for pathogen reduction option used?	<b>N/A</b>			
Does the facility use the biosolids vector attraction reduction option identified in the permit?	<b>N/A</b>			

Are all the operational and process parameters monitored to demonstrate compliance for vector attraction reduction?	N/A
Do the biosolids satisfactorily meet the treatment requirements for vector attraction reduction?	N/A
If the Specific Oxygen Uptake Rate (SOUR) test is used for vector attraction reduction, is it conducted within 15 minutes of sample collection by a certified laboratory or under the direction of an operator certified in accordance with Chapter 62-602, F.A.C?	N/A
Does treatment of biosolids or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements take place at the permitted facility (e.g., not in the tank of a hauling vehicle)?	N/A
Are the biosolids monitored at the frequency required by the permit?	N/A
Are the biosolids monitoring results reported on the facility DMR (RMP-AA, RMP-A, or RMP-B)?	N/A
Are the biosolids monitored for all the required parameters for the class of biosolids?	N/A
Do the Class AA, A, or B biosolids comply with the ceiling pollutant limits?	N/A
Are the correct analysis methods used for biosolids?	N/A
Is a certified laboratory used for the analysis of the biosolids?	N/A
Are all biosolids samples representative and taken after final treatment of the biosolids but before land application or distribution and marketing, unless otherwise approved?	N/A
Are all biosolids samples taken at the location specified in the facility permit?	N/A
Are the correct sample types properly taken for the type of biosolids (POTW Sludge Sampling Manual)?	N/A
Are the Class AA biosolids monitored monthly?	N/A
Do the Class AA biosolids meet the Class AA parameter limits?	N/A
Are Class AA biosolids that are stored for more than 45 days re-sampled for fecal coliform or Salmonella sp. at the frequency specified in the permit, if required?	N/A
For distribution and marketing, does the facility have a fertilizer license, sell or given-away to someone with a fertilizer license, or is enrolled in the US Composting Council's Seal to Testing Assurance program (USCC STA program does not apply in the Lake Okeechobee, St. Lucie River, and Caloosahatchee River watersheds)?	N/A
If the facility discovered that distributed and marketed biosolids did not meet Class AA standards, did the facility notify, within 24 hours, the Department and all persons to whom they delivered or distributed and marketed the Class AA biosolids?	N/A
Does the facility make available to users by product labels or other means the following information - fertilizer label or equivalent information; name and address of the facility; statement that the biosolids meet subsection 62-640.700(5), F.A.C.; recommend application rates; and, recommendations for storage (including the more than one dry ton/seven-day provision)?	N/A
Are all the sites where biosolids are land applied listed on the Treatment Facility Biosolids Plan form (DEP Form 62-640.219(2)(a))?	N/A
If a permitted site not listed in the Treatment Facility Biosolids Plan was used, did the permittee notify DEP at least 24 hours prior to land application at the site and submit a revised form within 30 days after using the site?	N/A
Did the facility only used permitted sites - i.e., no unpermitted sites were used for land application (i.e., the site did not have a valid DEP permit)?	N/A
Does the permittee maintain hauling records for shipments to land application sites and do they contain the required information?	N/A
Does the permittee provide a copy of the hauling records to the biosolids site manager, were records free of any discrepancies regarding the quantities delivered, and any discrepancies were reported to DEP within 24 hours of discovery?	N/A
Did all biosolids sent to sites meet pathogen reduction, vector attraction reduction, and pollutant limits?	N/A

If biosolids not meeting standards were sent to a site, did the permittee notify DEP, the site manager, the site permittee within 24 hours of discovery?	N/A
Does the permittee maintain copies for each site used of the Biosolids Application Site Annual Summary forms received from the site permittees indefinitely?	N/A
Has the permittee submitted Treatment Facility Biosolids Annual Summary reports to DEP by February 19 each year?	N/A
Was the information in the Treatment Facility Biosolids Annual Summary accurate?	N/A
Is any incineration or use of biosolids as a biofuel or for bioenergy in accordance with DEP's air regulations and RCRA?	N/A
Does the permittee keep the required hauling records to track transport of biosolids between facilities?	N/A
If the facility receives biosolids from a source facility, did the permittee report any discrepancies in the quantities of biosolids to DEP within 24 hours of discovery?	N/A
If the facility is a source facility and sends biosolids to another facility, does the permittee provide a copy of their hauling records for each shipment to the receiving facility?	N/A
If the facility receives biosolids from a source facility, does the receiving facility permit allow receipt of biosolids from other facilities?	N/A
Does the facility have copies of the required written agreement(s) between the receiving and source facility?	N/A
Did the permittee (source or receiving facility) submit all new written agreements to DEP within 30 days before transporting biosolids (unless approval given otherwise)?	N/A
Is operator staffing requirements met?	N/A
Are the biosolids receiving and handling operations satisfactory?	N/A
Are grit and screenings, etc., from the headworks properly disposed of in a landfill?	N/A
Is the facility free from any Biosolids violation not listed above that needs to be addressed?	Yes
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a "*"</i></li> <li>• <i>Questions with "No" responses indicate deficiencies</i></li> <li>• <i>Questions with "N/A" responses do not apply to the facility</i></li> </ul>	
<b>Observations:</b>	
14, 200 gallons of biosolids were last hauled by American Pipe and Tank on 11/8/21.	

## Groundwater

<b>Compliance Rating</b>	Out of Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
DMRs review period	09/01/2020-09/30/2021 Yes			
Are the groundwater monitoring results sent to the Department on Discharge Monitoring Report, Form 62-620.910(10), F.A.C. and submitted by the DMR due date?	Yes			
After a review of the Discharge Monitoring Reports, are the compliance well parameters meeting the groundwater standards in the time period reviewed (12 months or greater)?	Yes			
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	pH 06/2021 No			

Do the facilities purging logs on DEP Form FD 9000-24 indicate that purging was done properly; including sufficient volume, purge rate, depth to water, and stability criteria (pH, Temperature, Conductivity, Dissolved Oxygen, Turbidity)?	Yes
Is the groundwater monitoring report complete and accurate, including analysis method, laboratory method detection limits, static water level, purging logs, sample collection procedures and treatment?	Yes
Do the groundwater monitoring wells meet DEP requirements including; tamper-proof locks, unique well label(s), concrete well pad with protective bumpers not containing numerous cracks, and is free of clutter for sampling purposes?	Yes
If or when new well construction was completed did the facility plug and properly abandoned the existing well and submit Monitoring well completion Report, Form 62-520.900(3) to DEP within 60 days?	N/A
If a monitoring well became damaged or inoperable was maintenance conducted and notification sent to DEP within 2 days of discovery?	N/A
Is the well(s) that the facility is sampling at part of the approved groundwater monitoring plan?	Yes
Are the monitoring wells operable to the extent that sampling is possible?	Yes
Are groundwater samples being collected and analyzed as required by the permit or enforcement action; including location, well type, sample type (grab/composite), time, and frequency?	Yes
If sampling was observed were the sample collection activities being performed in accordance with DEP SOP FS 2200?	N/A
If sampling was observed was equipment in satisfactory condition?	N/A
If sampling was not observed is the description of sample collection activities being performed in accordance with DEP SOP FS 2200?	Yes
Is the facility free from any Groundwater violation not listed above that needs to be addressed?	No
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*”</i></li> <li>• <i>Questions with “No” responses indicate deficiencies</i></li> <li>• <i>Questions with “N/A” responses do not apply to the facility</i></li> </ul>	
<b>Deficiencies &amp; Corrective Actions:</b>	
A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).	Deficiency: (Narrative) <b>The pH was exceeded on MWC-2 and MWC-3 for the month of 06/2021.</b>
	Corrective Action(s): (Narrative) The pH was 4.68 and 4.88, outside of the range of 6-8.5 currently the pH exceedance appears to be isolated. The pH of the well is not historically low. No further action is required at this time.  Rule 62-620.610(18)(a), F.A.C. - Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
Is the facility free from any Groundwater violation not listed above that needs to be addressed?[See Deficiency Narrative for Specific Rule Violated]	Deficiency: (Narrative) <b>During the QA review of the groundwater monitoring reports conducted on 11/17/2021 it was found the Lab reported the nitrate as .50u (undetected) but Nitrate was reported incorrectly as .50 mg/L.</b>
	Corrective Action(s): (Narrative) Lab results reported as undetected should be reported as < lab MDL. This was reviewed with the operator. No further action is required at this time.  Rule 62-620.610(18)(a), F.A.C. - Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.

<b>Observations:</b>
See deficiencies above.

## SSO Survey

<b>Compliance Rating</b>	In Compliance			
<b>Does this section apply to the facility?</b>	<input checked="" type="radio"/>	Yes	<input type="radio"/>	No
<b>Questions</b>				
Does the facility have an Operation and Maintenance Manual for their collection system?	Yes			
How often is the Operation and Maintenance Manual updated?	As needed Yes			
Does the O&M manual reflect the current collection system configuration?	Yes			
Are procedures available for minimizing spills in either the Operation and Maintenance Manual or in a separate document?	Yes			
Does the facility have a Sewer Overflow Response Plan/procedures for minimizing spills?	Yes			
Did the facility collect and/or analyze bacteriological samples as outlined in their SORP?	N/A			
Does the facility have a map of its collection system?	N/A			
Are the SORP and collection system maps immediately available to SSO response staff, including during power failures?	Yes			
Did the facility collect and/or analyze bacteriological samples for sewage spills that reached surface waters?	N/A			
Does the facility perform routine preventative maintenance to keep the collection/transmission system in good working order?	Yes			
Does the facility maintain a ready-to-use supply of equipment, tools and materials for responding to SSOs?	N/A			
How many lift stations have permanent emergency back-up power generators?	none N/A			
In the last 12 months, was the facility free from sewage spills or abnormal event from any part of a collection/transmission system or treatment plant that discharged to the ground or did not make it to surface waters, i.e., stormwater collection system, drainage ditch, stream, pond, or lake?	Yes			
Does the facility report the spill(s) to the Department within 24 hours of discovery?	Yes			
Does the facility follow up on spills?	Yes			
Does the facility keep routine documentation and reporting records of spills, and/or operation and maintenance activities on the collection/transmission system(s)?	Yes			
In the last 12 months, was the facility free from sewage spills or abnormal events from any components of a collection/transmission system or from a treatment plant that reached surface waters including stormwater conveyance system or drainage ditch?	Yes			
Is the facility free from any SSO violation not listed above that needs to be addressed?	Yes			
<ul style="list-style-type: none"> <li>• Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*”</li> <li>• Questions with “No” responses indicate deficiencies</li> <li>• Questions with “N/A” responses do not apply to the facility</li> </ul>				
<b>Observations:</b>				
No other observations are noted.				

## Other

<b>Compliance Rating</b>	Not Applicable			
<b>Does this section apply to the facility?</b>	<input type="radio"/>	<b>Yes</b>	<input checked="" type="radio"/>	<b>No</b>
<b>Questions</b>				
*Is the facility free from any violation not listed above, or pattern of noncompliance, resulting in a high potential for water quality or health impacts <i>(Any violations considered significant by the Secretary, Deputy Secretary, Director of District Management, or the Division Director meet SNC criteria)</i>	<b>N/A</b>			
Please describe any potential Non-wastewater violations (i.e. hazardous waste, stormwater, SLERP, Air and Storage Tanks) that were referred.	Click or tap here to enter text. <b>N/A</b>			
<ul style="list-style-type: none"> <li>• <i>Significant Non-Compliance Criteria per Program Guidance Memo OWM-00-01 Should be Reviewed when Checklist Items Deficiencies are Noted and Marked by a “*”</i></li> <li>• <i>Questions with “No” responses indicate deficiencies</i></li> <li>• <i>Questions with “N/A” responses do not apply to the facility</i></li> </ul>				
<b>Observations:</b>				
Not applicable.				

## Deficiencies Summary

<b>Evaluation Area: Permit</b>	
<p>The permittee failed to submit an application to renew the existing permit at least 180 days prior to expiration.</p> <p>[62 620.335(1) F.A.C., 62-620.410(5) F.A.C., PFSA]</p>	<p>Deficiency: (Narrative) The permit renewal application was due by October 11, 2021 and has not been submitted.</p> <p>Corrective Action(s): (Narrative) Submit the permit application by December 31, 2021.</p>

<b>Evaluation Area: Sampling</b>	
<p>In facility log books or other documentation are the daily records appropriately recorded including: composite sampler or other temperatures, and daily calibration of meters.</p> <p>[62-160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., DEP SOP FD 1000-6000]</p>	<p>Deficiency: (Narrative) The following items were noted during the QA review performed on 12/8/21 for Field Sheets, Chain of Custody (COC), and Sampling Calibration/Verification Records:</p> <ul style="list-style-type: none"> <li>- time is not documented for calibrations</li> <li>- units are not documented for standards</li> <li>- acceptance criteria is not documented for pH and TRC</li> <li>- no indication if verification or calibration passed</li> <li>- no notes section documenting maintenance or corrective actions</li> <li>-pH is not bracketed. pH readings are above 7 s.u. and a buffer of 10 s.u. should be used to bracket the data and ensure meter accuracy.</li> <li>- matrix (GW, WW, etc.) is not indicated on the COC</li> <li>- sample kits are provided and there is no sample kit ID or lot numbers of preservatives documented on the COC.</li> </ul>

	<p>Corrective Action(s): (Narrative)</p> <p>An example calibration/verification field sheet was provided to the operating company on 12/9/21 along with a list of the findings to update the calibration records. No further action will be required at this time.</p>
<p>Are meters calibrated and sample analysis conducted at the facility done in accordance with DEP SOP and NELAC guidelines? (calibration frequency and sample bracketing for pH, total residual chlorine (TRC), turbidity, DO)</p> <p>[62-160.210(1) F.A.C., 62-160.800(1)(a) F.A.C., DEP SOP FT 1000 ]</p>	<p>Deficiency: (Narrative)</p> <p>pH bracketing is not complete as required by DEP SOP FT 1100.</p>
	<p>Corrective Action(s): (Narrative)</p> <p>Include the use of a buffer of 10 s.u. to bracket the pH readings from 4 s.u. to 10. s.u..</p>

### Evaluation Area: Records and Reports

<p>Was copy of the current O&amp;M manual available at the time of the inspection?</p> <p>[62-600.720 F.A.C., 62-620.350 F.A.C.]</p>	<p>Deficiency: (Narrative)</p> <p>At the time of inspection, a copy of the Operation and Maintenance Manual was not on site.</p>
	<p>Corrective Action(s): (Narrative)</p> <p>Please provide a copy of the operation and maintenance manual to the department by email.</p>

### Evaluation Area: Facility Site Review

<p>Is the exterior of the tanks, wall, and/or pipes of the facility free from leaks?</p> <p>[62-600.410 F.A.C., 62-620.300 (5) F.A.C., 62-620.610(7) F.A.C.]</p>	<p>Deficiency: (Narrative)</p> <p>At the time of inspection, the chlorine contact chamber was weeping.</p>
	<p>Corrective Action(s): (Narrative)</p> <p>Repair the leak and provide photos to the department by email</p>

### Evaluation Area: Flow Measurement

<p>Is the flow meter calibrated at least annually and is it current?</p> <p>[ 62-600.200(25) F.A.C.]</p>	<p>Deficiency: (Narrative)</p> <p>The flow meter calibration was past due.</p>
	<p>Corrective Action(s): (Narrative)</p> <p>A copy of the flow calibration was provided on 12/15/2021 by Reuben Law.</p>

### Evaluation Area: Effluent Quality

<p>The facility violated a permit or enforcement narrative effluent limit.</p> <p>[ 403.161(1)(b) F.S., 62-600.420 F.A.C, 62-600.440 F.A.C, 62-</p>	<p>Deficiency: (Narrative)</p> <p>The facility is not meeting the Total Nitrogen interim limits of Consent Order 21-0360. See the attached Exhibit A for the tables of exceedances.</p>
	<p>Corrective Action(s): (Narrative)</p> <p>The facility continues to not demonstrate the ability to meet the final permit limits. The interim limits of the Consent Order (21-0360) executed on 5/11/2021 will be revised in an amendment to the CO.</p>

600.445 F.A.C, 62-600.510 F.A.C., 62-600.520 F.A.C. , XNEV]	
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**Evaluation Area: Groundwater**

<p>A review of the Discharge Monitoring Reports revealed the following effluent exceedance(s).</p>	<p>Deficiency: (Narrative) The pH was exceeded on MWC-2 and MWC-3 for the month of 06/2021.</p> <p>Corrective Action(s): (Narrative) The pH was 4.68 and 4.88, outside of the range of 6-8.5 currently the pH exceedance appears to be isolated. The pH of the well is not historically low. No further action is required at this time.</p> <p>Rule 62-620.610(18)(a), F.A.C. - Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.</p>
<p>Is the facility free from any Groundwater violation not listed above that needs to be addressed? [See Defficiency Narritive for Specific Rule Violated]</p>	<p>Deficiency: (Narrative) During the QA review of the groundwater monitoring reports conducted on 11/17/2021 it was found the Lab reported the nitrate as .50u (undetected) but Nitrate was reported incorrectly as .50 mg/L.</p> <p>Corrective Action(s): (Narrative) Lab results reported as undetected should be reported as &lt; lab MDL. This was reviewed with the operator. No further action is required at this time.</p> <p>Rule 62-620.610(18)(a), F.A.C. - Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.</p>





**EXHIBIT A**

Table of Exceedances for Total Nitrogen in reference to Consent Order 21-0360.

Hall, Carolyn X

<b>Date</b>	<b>Parameter</b>	<b>Monitoring Location</b>	<b>Result</b>	<b>Interim Limit until October 31, 2022</b>	<b>Permit Limit</b>
09/2021	Total Nitrogen Annual Avg	EFA-1	6.39 mg/L	6.0 mg/L	3.0 mg/L
08/2021	Total Nitrogen Annual Avg	EFA-1	6.3 mg/L	6.0 mg/L	3.0 mg/L
07/2021	Total Nitrogen Annual Avg	EFA-1	9.35 mg/L	6.0 mg/L	3.0 mg/L
06/2021	Total Nitrogen Annual Avg	EFA-1	12.4 mg/L	6.0 mg/L	3.0 mg/L

# ATTACHMENT C

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

Noah Valenstein  
Secretary

May 11, 2021

Charles DeMenzes, Owner  
CFAT H2O Inc.  
7745 NE 22nd Terrace  
Ocala, FL 34479  
[charlie@altfo.com](mailto:charlie@altfo.com)

Re: Landfair WWTF  
DW Facility ID #FLA010722  
OGC Case No: 21-0360

Dear Mr. DeMenzes:

Enclosed is the executed Consent Order to resolve the above referenced case. This copy is for your records.

Should you have any questions or comments, please contact Carolyn Hall at 407-897-4114 or via e-mail at [Carolyn.X.hall@FloridaDEP.gov](mailto:Carolyn.X.hall@FloridaDEP.gov).

Your cooperation in this matter will be appreciated.

Sincerely,

A handwritten signature in black ink, appearing to read "AW", is written over a faint, larger signature.

*On behalf of:*

Aaron Watkins  
Director, Central District

Enclosure

cc: Lea Crandall, OGC  
Zoey Carr, Central District  
Daun Festa, Central District

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. 21-0360
	)	
CFAT H2O INC.	)	
_____	)	

**CONSENT ORDER**

This Consent Order (Order) is entered into between the State of Florida Department of Environmental Protection (Department) and CFAT H2O 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 Landfair WWTF, an existing 0.099 mgd annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of aeration, secondary clarification, chlorination, and aerobic digestion of biosolids with an existing 0.099 MGD annual average daily flow permitted capacity rapid infiltration basin system. R-001 is a reuse system which consists of a lined holding pond and two (2) rapid infiltration basins (Facility). The Facility is operated under Wastewater Permit No. FLA010722 (Permit), which was issued on April 10, 2017 and will expire on April 9, 2022. The Facility is located at 7721 NE 22<sup>nd</sup> Terrace, Ocala, in Marion County, Florida (Property). Respondent owns the Property on which the Facility is located.

4. The Department finds that the following violation(s) occurred:

a) The facility has chronic effluent violations that generated a significant out of compliance with TSS limits exceeding four out of six months

b) During an inspection on February 16, 2021 the lined holding pond had a buildup of solids.

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:

a) Effective immediately, the Respondent shall continue to maintain the lined holding pond including all vegetation and the removal of solids buildup.

b) Respondent shall comply with the interim limit (“Interim Limit”), the discharge monitoring, and reporting requirements in the table below for discharges to the sprayfield system at the Facility. All of the other parameter limits in the Permit remain the same and Respondent shall comply with all of the other conditions of the Permit. The Interim Limit shall become effective upon the first day of the month following the effective date of this Consent Order. The Interim Limit shall remain in effect until October 31, 2022.

Parameter	Units	Max./Min	Reclaimed Water Limitations		Monitoring Requirements			Notes
			Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	
Solids, Total Suspended	mg/L	Max	<b>40.0</b>	Annual Average	Monthly	Grab	EFA-1	
		Max	<b>40.0</b>	Monthly Average				
		Max	<b>45.0</b>	Weekly Average				
		Max	<b>60.0</b>	Single Sample				
Nitrogen, Nitrate, Total (as N)	mg/L	Max	<b>6.0</b>	Annual Average	Annually	Grab	EFA-1	
Nitrogen, Total	mg/L	Max Max	<b>Report Report</b>	Annual Average Monthly Average	Monthly	Grab	EFA-1	

6. Within 30 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 paragraphs 4 above.

7. Within 30 days of the due date for submission of the evaluation in paragraph 6, 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 paragraphs 4 above and ensure the Facility and effluent disposal system will function in full and consistent compliance with all applicable rules.

8. Within 60 days of the due date for submission of the design modification(s) in paragraph 7, Respondent shall submit a complete application for a Department wastewater permit to construct the modifications submitted pursuant to paragraph 7, 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.

9. Within 365 days after issuance of the wastewater permit referenced in paragraph 8 above, or if no permit is required, within 180 days of the approval of the design modification(s) in paragraph 7, Respondent shall complete construction of the modification(s) submitted pursuant to paragraph 7.

10. 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 7.

11. Every calendar 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.

12. Within 90 days of the effective date of this Order, Respondent shall submit to the Department a detailed Operation and Maintenance Performance Report meeting all of the requirements of Rule 62-600.735, F.A.C.

13. Notwithstanding the time periods described in the paragraphs above, Respondent shall complete all corrective actions required by paragraphs 5,6,7, and8, within 395 days of the effective date of this Order and be in full compliance with Rule 62-600, F.A.C., regardless of any intervening events or alternative time frames imposed in this Order.

14. Within 30 days of the effective date of this Order, Respondent shall pay the Department \$3,000.00 in settlement of the regulatory matters addressed in this Order. This amount includes \$2,750.00 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 penalties are apportioned as follows: \$2,000.00 for violation of Rule 403.121(5), F.A.C.; \$750.00 for violation of Rule 403.121(4)(f), F.A.C.

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) 5,6,7, and 8 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 Compliance Assurance Program, Department of Environmental Protection, Central District, 3319 Maguire Blvd. Suite 232, Orlando, FL 32803-3767 or by email at [DEP\\_CD@dep.state.fl.us](mailto:DEP_CD@dep.state.fl.us).

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 OGC Number assigned to this Consent Order;
- b) The name, address, and telephone number of each petitioner; 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;
- c) An explanation of how the petitioner's substantial interests will be affected by the Consent Order;
- d) A statement of when and how the petitioner received notice of the Consent Order;
- e) Either a statement of all material facts disputed by the petitioner or a statement that the petitioner does not dispute any material facts;
- f) A statement of the specific facts the petitioner contends warrant reversal or modification of the Consent Order;
- g) A statement of the rules or statutes the petitioner contends require reversal or modification of the Consent Order; and
- h) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Consent Order.

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 3319 Maguire Blvd, Suite 232, Orlando, FL 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:

Charles DeMenzes  
Charles DeMenzes  
CFAT H2O INC, Owner

5/10/2021  
Date

DONE AND ORDERED this 11 day of May, 2021, in Orange County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

Aaron Watkins on behalf of  
Aaron Watkins  
District Director  
Central District

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

William Hill  
Clerk

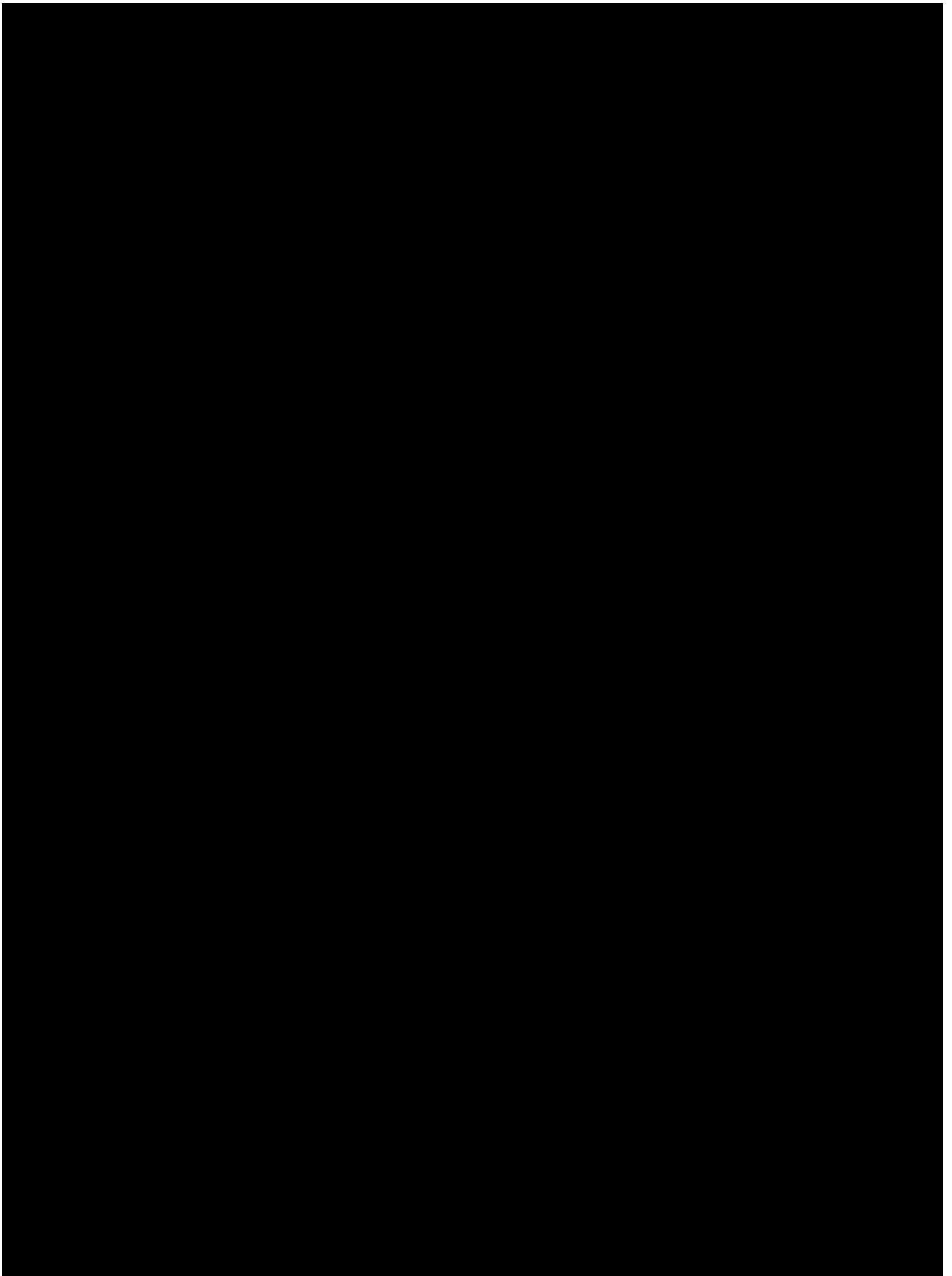
May 11, 2021  
Date

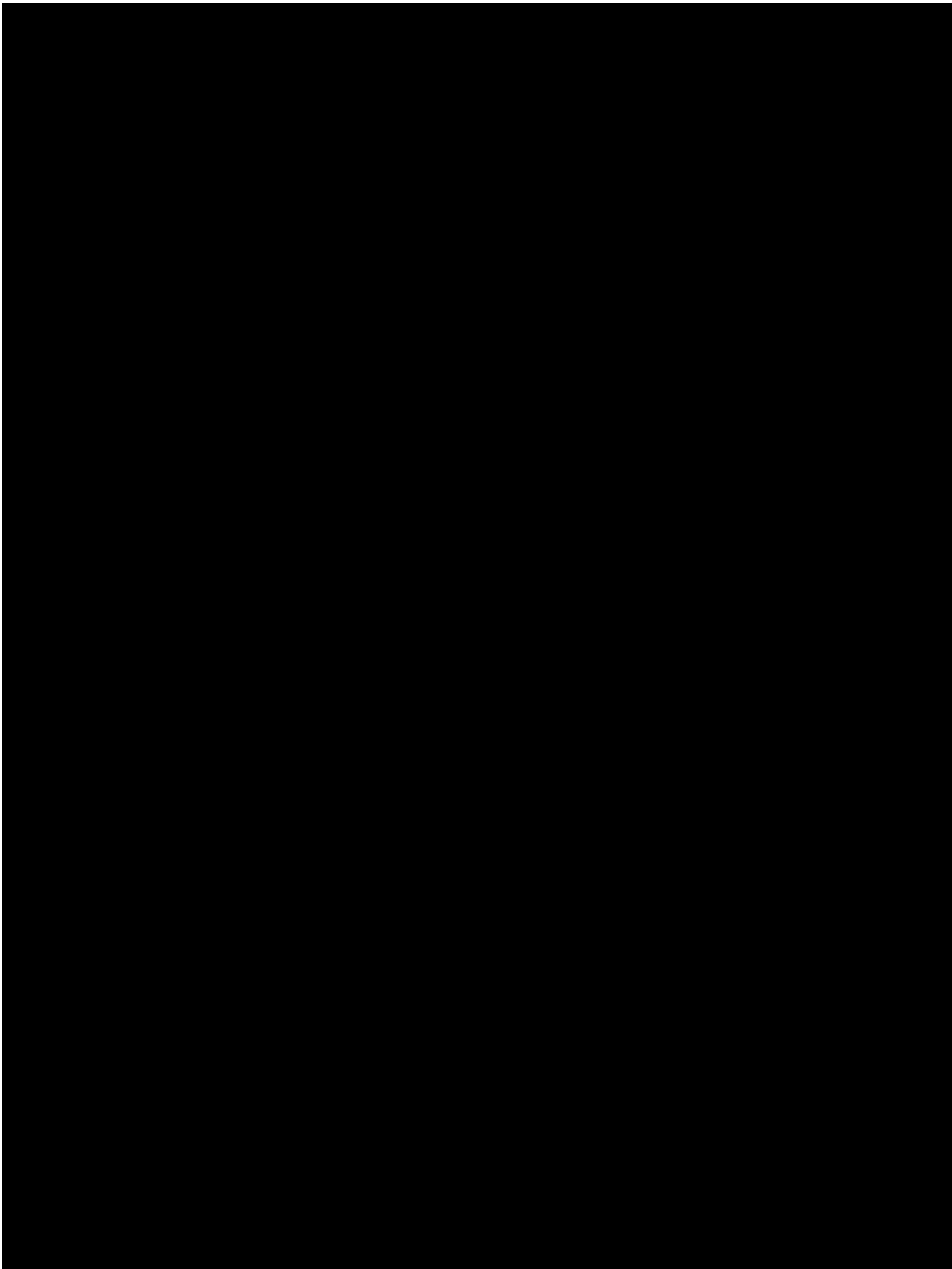
Copies furnished to:

Lea Crandall, Agency Clerk  
Mail Station 35

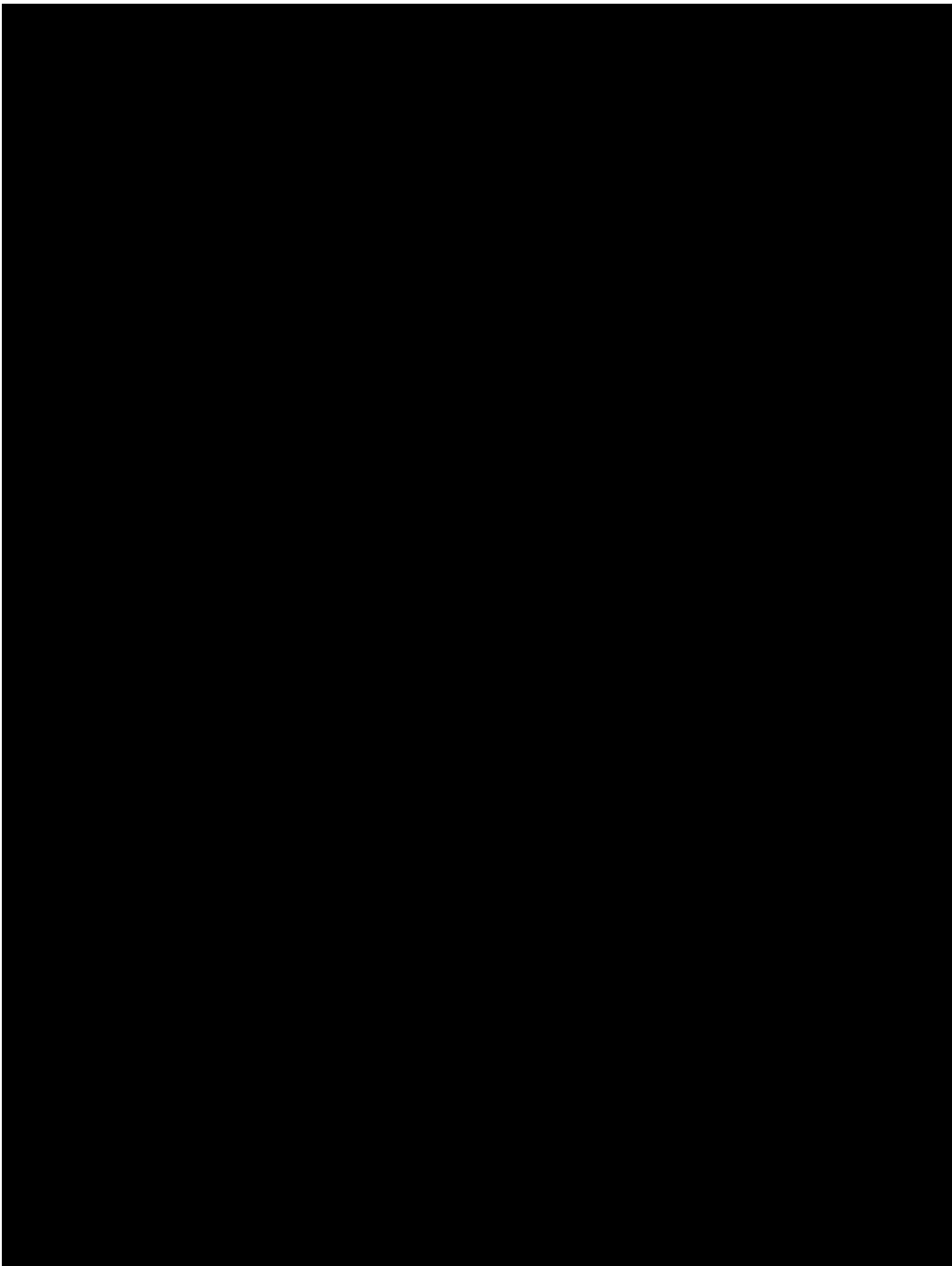
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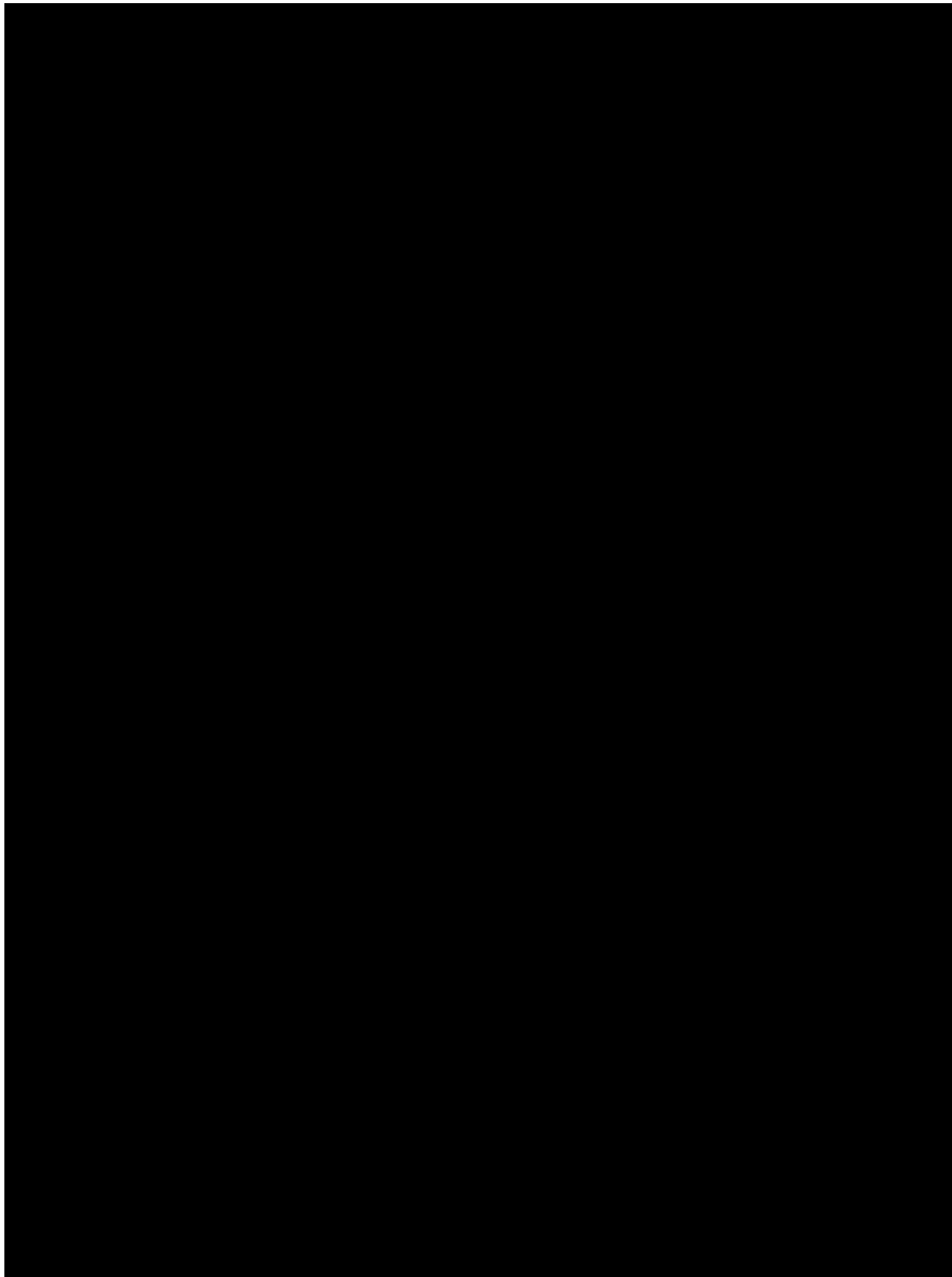
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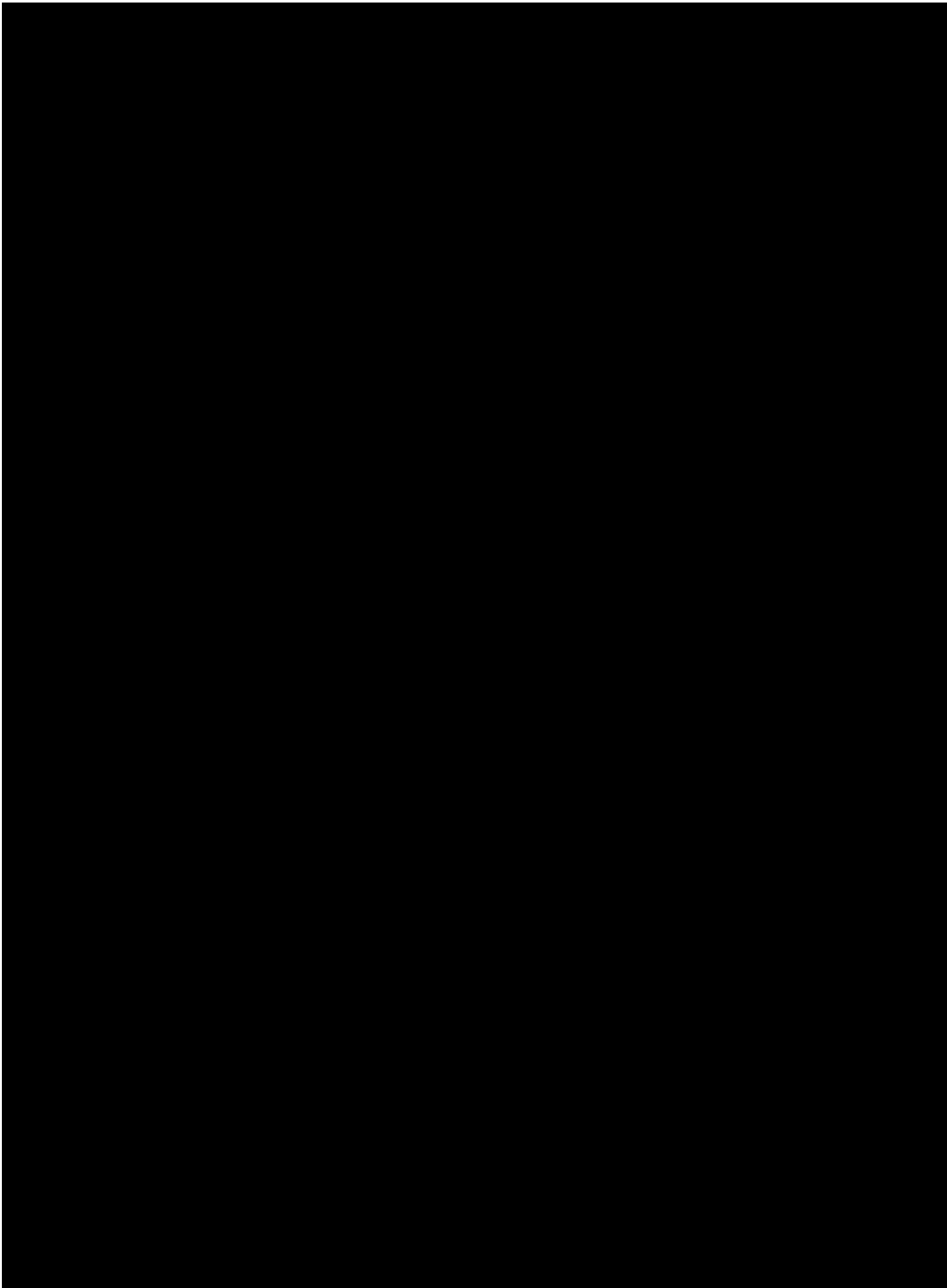


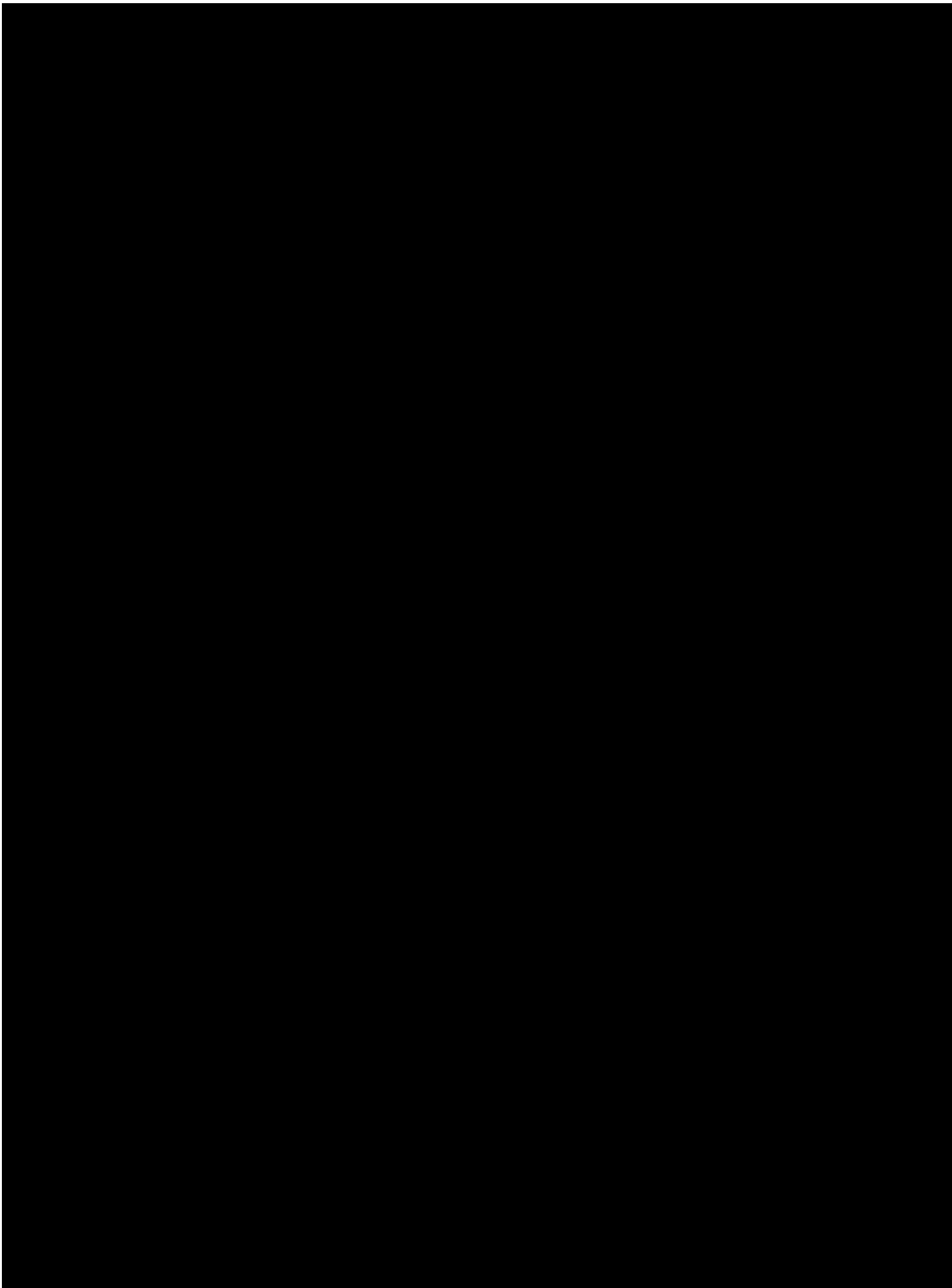


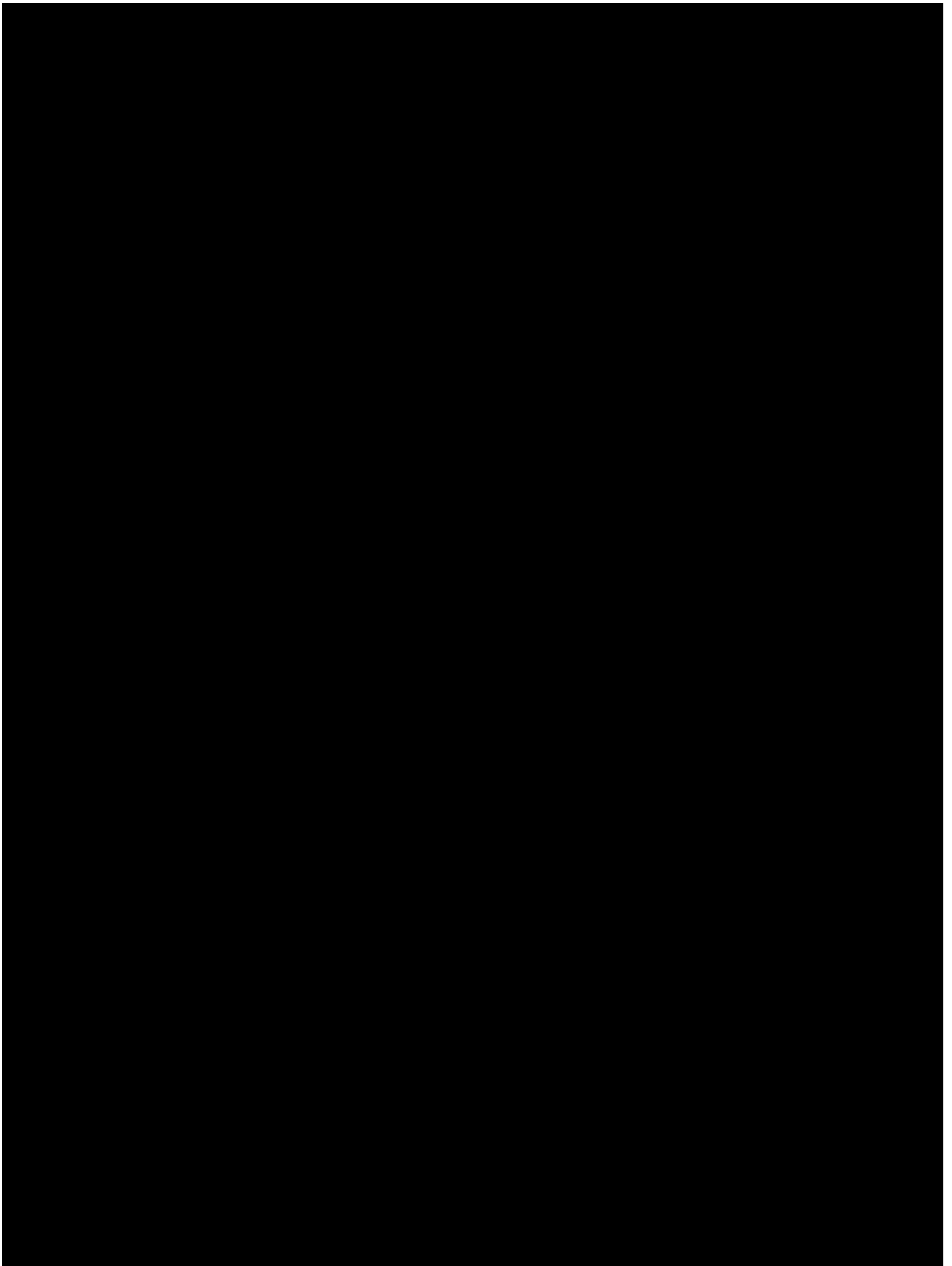


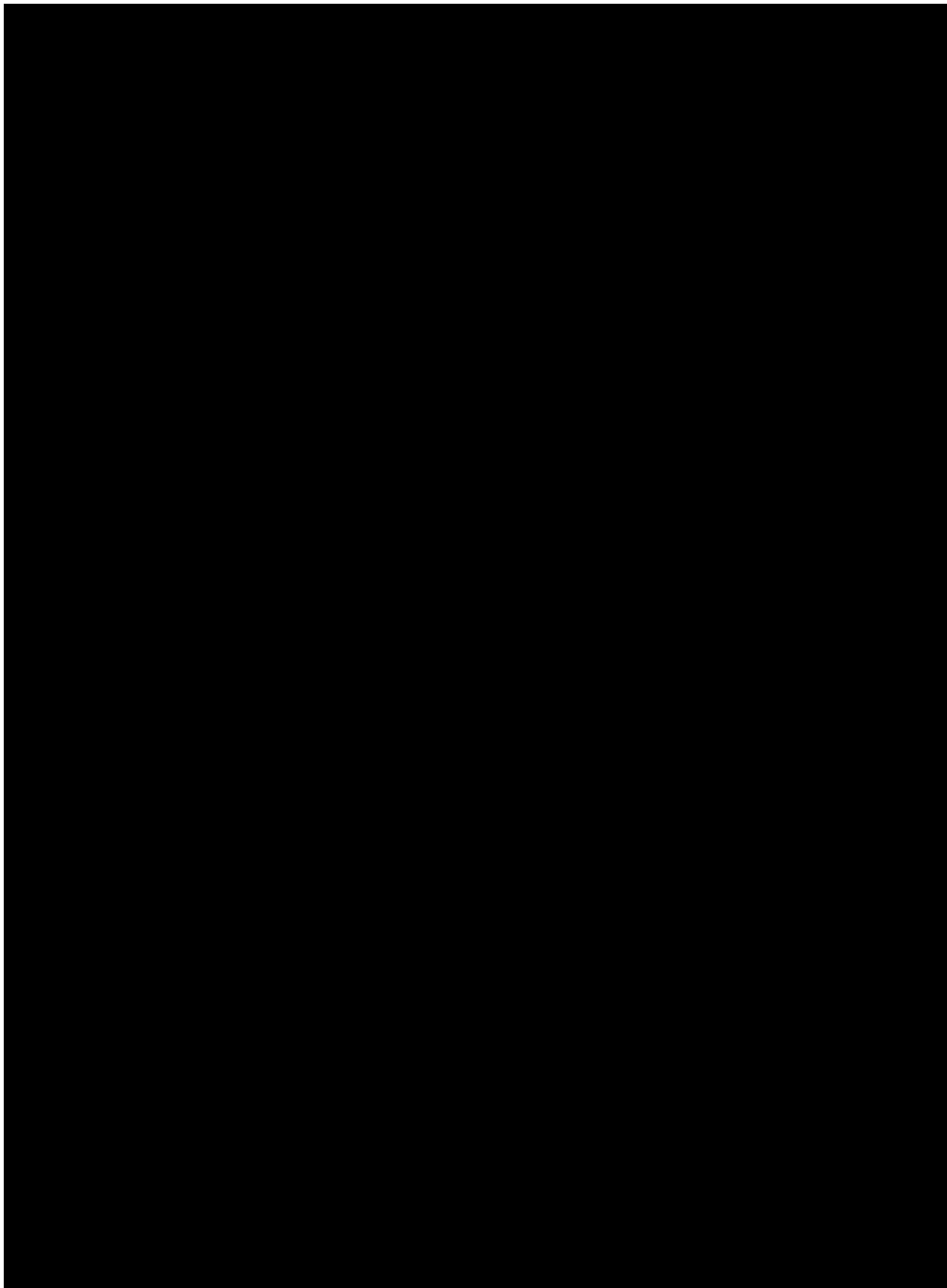


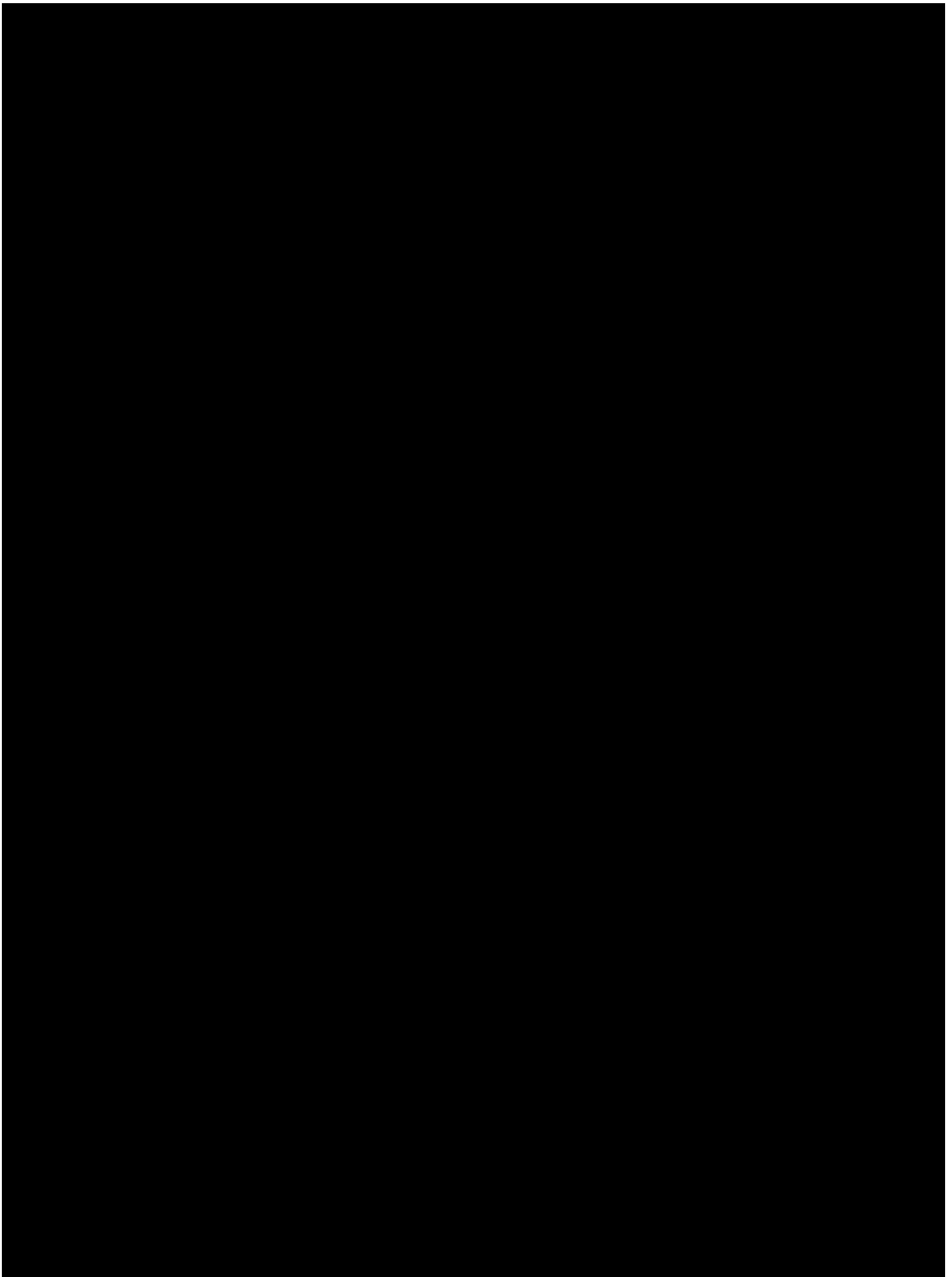


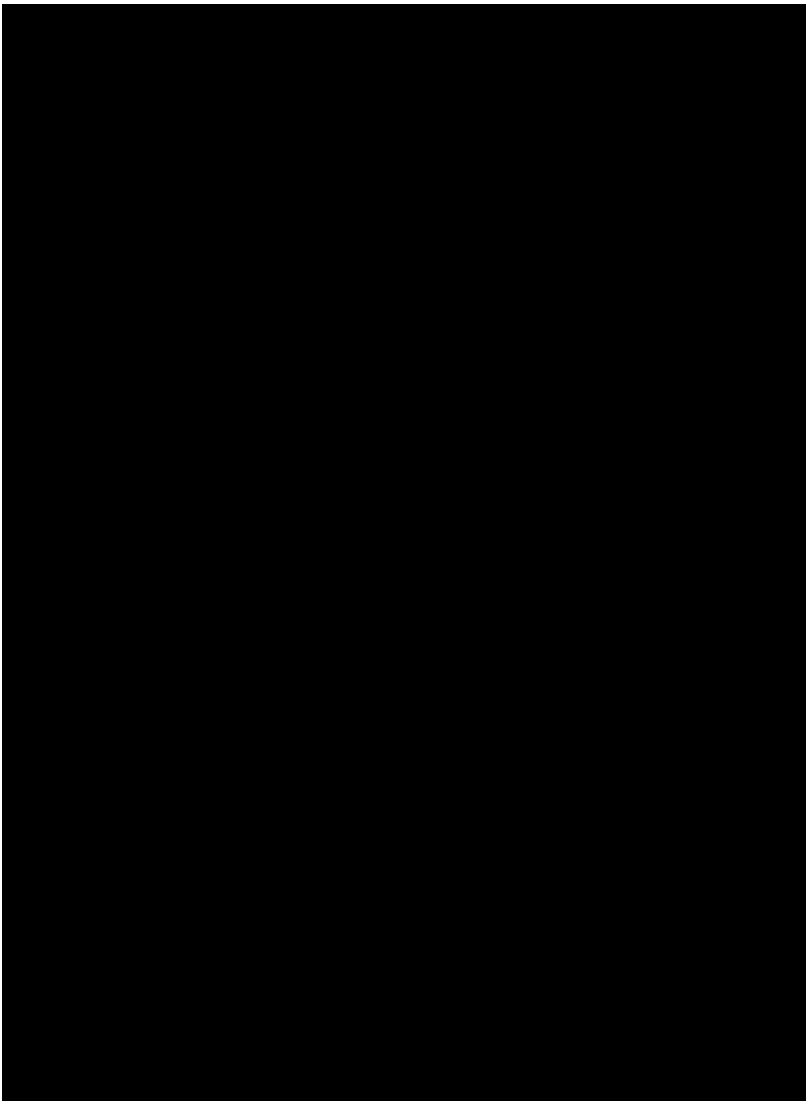














**ATTACHMENT E**  
**Local Vendor Recommendations**

- a. Recommendations for local vendors
  - i. O&M Companies; US Water Services  
Two-Fold
  - ii. Labs or Testing Companies; Aqua Pure (352)355-2383  
Plant Technicians
  - iii. Sludge Haulers; American Pipe & Tank (352)615-1114
  - iv. General Contractors; ESI-Engineering Solution Inc. (352)789-0389  
Blake Utilities (352)625-0269  
Oxford Pipeline
  - v. Well Drillers
  - vi. Electricians; Interstate Electric (352)732-6332

# **EXHIBIT 2**

# WATER FACILITY REPORT

CFAT H2O, INC.

## LOCATION:

MARION COUNTY, FLORIDA

## PREPARED FOR:

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

## DATE:

March 2022

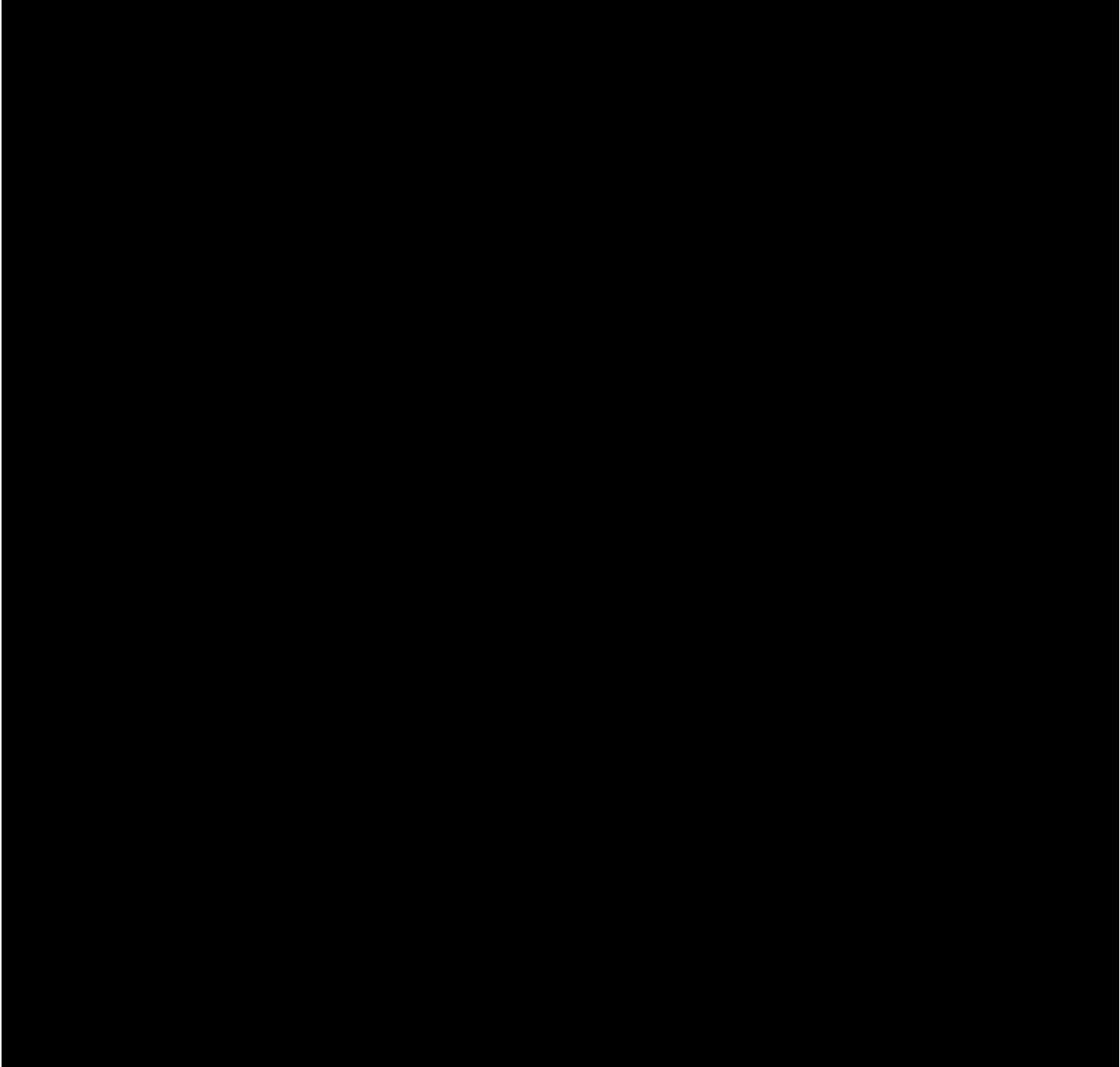


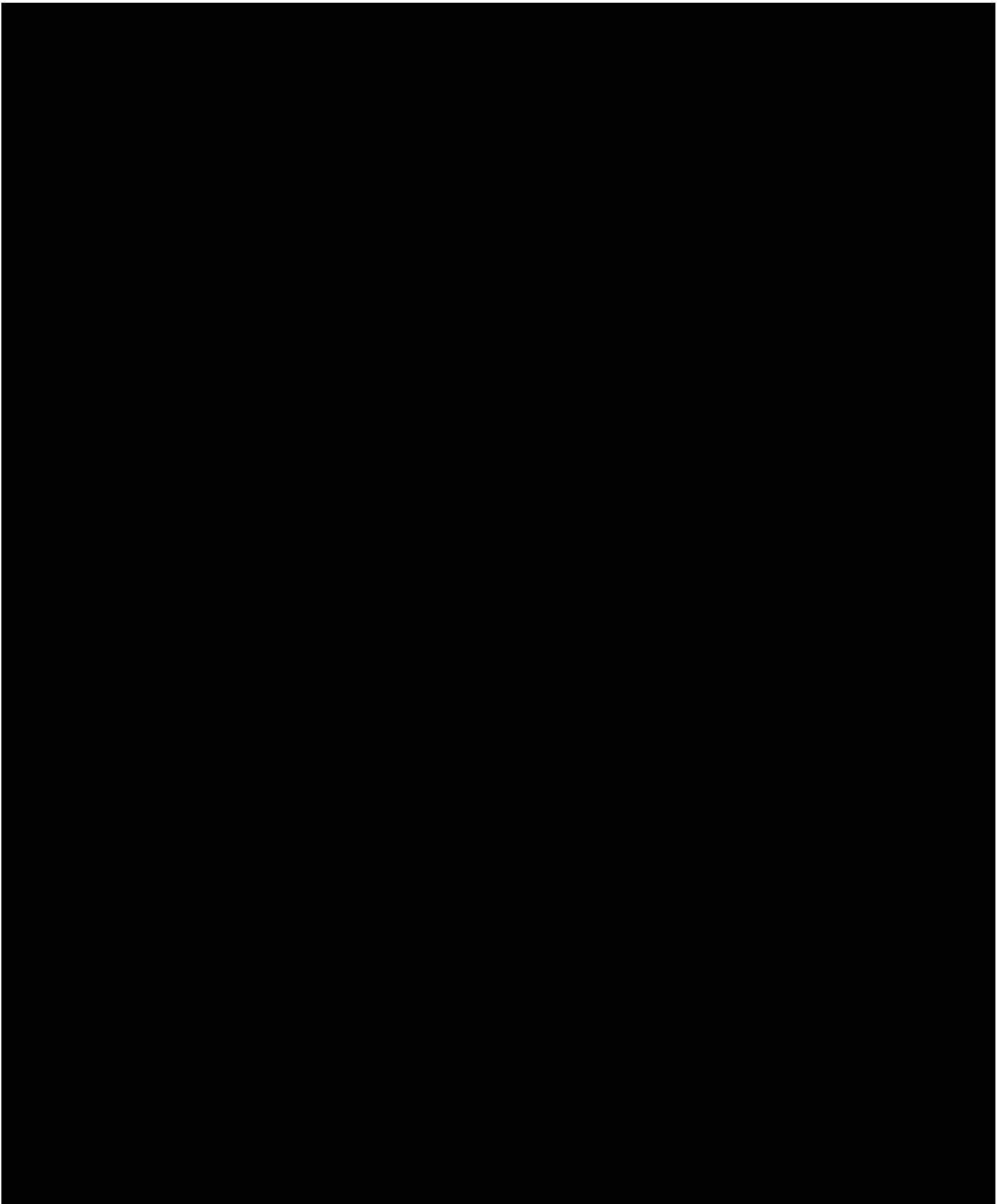
## PREPARED BY:

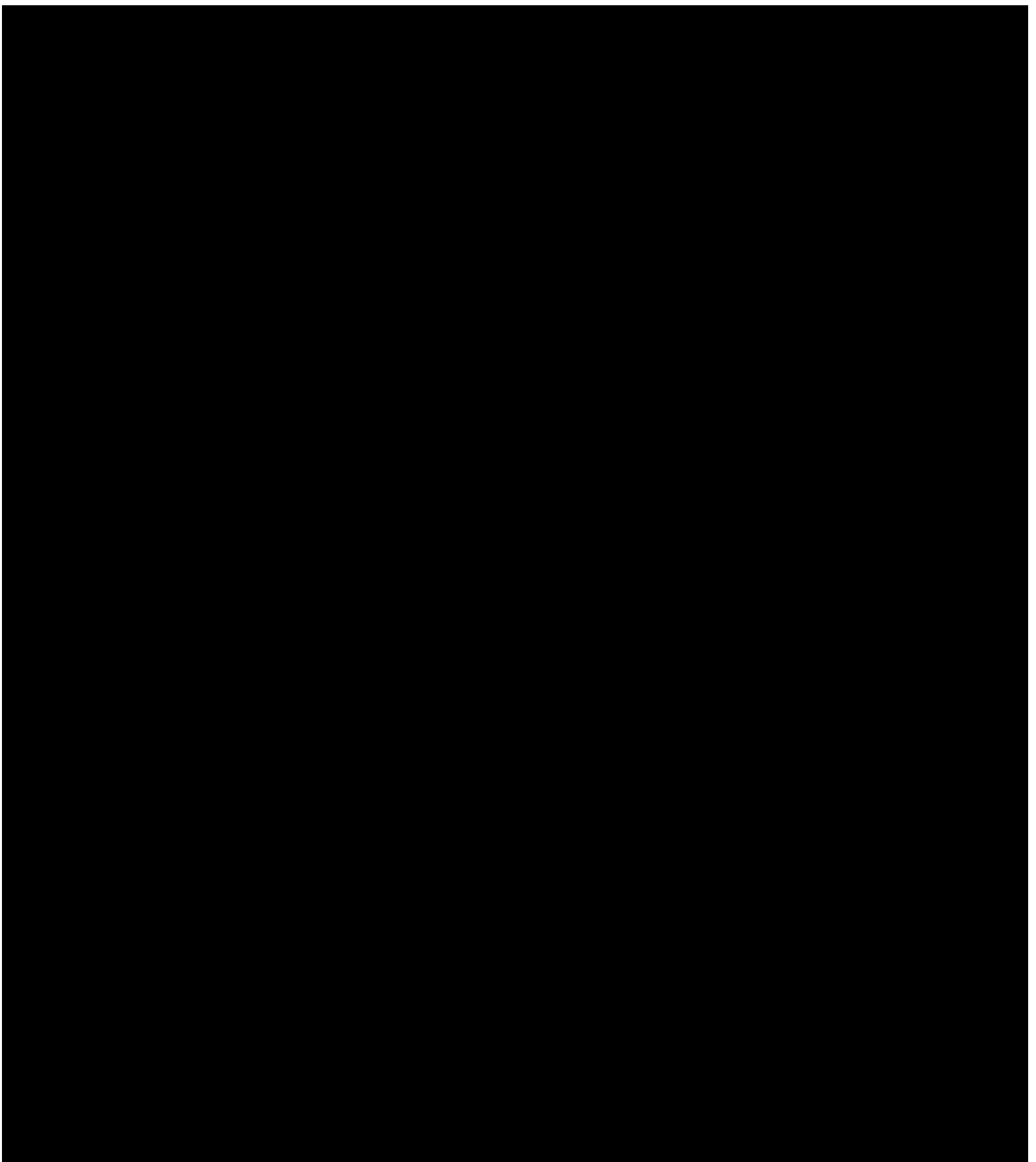
**Clearpoint**  
CONSULTING ENGINEERS, P.A.

6652 U.S. Highway 98  
Hattiesburg, MS 39402

ENGINEERING MEMO  
LANDFAIR SUBDIVISION  
MARION COUNTY, FL  
MARCH 2022







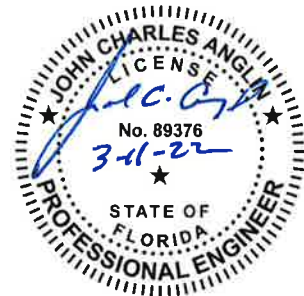
**SUPPORTING DOCUMENTATION TO**  
**WATER ENGINEERING MEMO**

CFAT H2O, INC.  
LANDFAIR SUBDIVISION

**LOCATION:**  
MARION 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



## **TABLE OF CONTENTS**

### **ATTACHMENTS**

Attachment A – Water System Permit Information

Attachment B – Florida DEP 2020 Inspection Report

Attachment C – Compliance Historical Documentation

Attachment D – Local Vendor Recommendations

Attachment E – Site Photographs

# ATTACHMENT A

Water System Permit Information



**Permit  
with conditions  
1728**



# St. Johns River Water Management District

Kirby B. Green III, Executive Director • David W. Fisk, Assistant Executive Director

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500  
On the Internet at [www.sjrwmd.com](http://www.sjrwmd.com).

May 12, 2004

CFAT H2O INC  
PO Box 5220  
Ocala, FL 34478

**SUBJECT:** Consumptive Use Permit Number 3077  
Landfair

Dear Sir/Madam:

Enclosed is your permit and the forms necessary for submitting information to comply with conditions of the permit as authorized by the St. Johns River Water Management District on May 12, 2004.

Please be advised that the period of time within which a third party may request an administrative hearing on this permit may not have expired by the date of issuance. A potential petitioner has twenty-six (26) days from the date on which the actual notice is deposited in the mail, or twenty-one (21) days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes. Receipt of such a petition by the District may result in this permit becoming null and void.

Permit issuance does not relieve you from the responsibility of obtaining permits from any federal, state and/or local agencies asserting concurrent jurisdiction over this work.

The enclosed permit is a legal document and should be kept with your other important records. Please read the permit and conditions carefully since the referenced conditions may require submittal of additional information. All information submitted as compliance with permit conditions must be submitted to the nearest District Service Center and should include the above referenced permit number.

Sincerely,

Gloria Lewis, Director  
Permit Data Services Division

Enclosures: Permit, Conditions for Issuance, Compliance Forms, Map, Well Tags

cc: District Permit File

**Agent:** Miles Christian Anderson Consulting Engineers, Inc  
2300 SE 17th St Suite 200  
Ocala, FL 34471

---

**GOVERNING BOARD**

Ometrias D. Long, CHAIRMAN  
APOPKA

David G. Graham, VICE CHAIRMAN  
JACKSONVILLE

R. Clay Albright, SECRETARY  
OCALA

Duane Ottenstroer, TREASURER  
JACKSONVILLE

W. Michael Branch  
FERNANDINA BEACH

John G. Sowinski  
ORLANDO

William Kerr  
MELBOURNE BEACH

Ann T. Moore  
BUNNELL

Susan N. Hughes  
JACKSONVILLE

**PERMIT NO.** 3077  
**PROJECT NAME:** Landfair

**DATE ISSUED:** May 12, 2004

**A PERMIT AUTHORIZING:**

The District authorizes, as limited by the attached permit conditions, the use of 21.9 million gallons per year of ground water from the Floridan aquifer for the household use of 1223 people, 1.7 million gallons per year of ground water from the Floridan aquifer to irrigate 2 acres of urban landscape, 0.6 million gallons per year of ground water from the Floridan aquifer for water utility and 0.4 million gallons per year of ground water from the Floridan aquifer for commercial/industrial type use.

**LOCATION:**

Site: Landfair  
Marion County

Section(s): 16                      Township(s): 14S                      Range(s): 22E

**ISSUED TO:**

CFAT H2O INC  
PO Box 5220  
Ocala, FL 34478

Permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all maps and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to permittee any property rights nor any rights of privileges other than those specified herein, nor relieve the permittee from complying with any law, regulation or requirement affecting the rights of other bodies or agencies. All structures and works installed by permittee hereunder shall remain the property of the permittee.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

**PERMIT IS CONDITIONED UPON:**

See conditions on attached "Exhibit A", dated May 12, 2004

**AUTHORIZED BY:** St. Johns River Water Management District  
Department of Resource Management

By: \_\_\_\_\_



Dwight Jenkins  
Division Director

**"EXHIBIT A"**  
**CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 3077**  
**CFAT H2O INC**  
**DATED MAY 12, 2004**

1. District Authorized staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications and conditions of this permit.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Section 373.175, Florida Statutes, or to formulate a plan for implementation during periods of water shortage, pursuant to Section 373.246, Florida Statutes. In the event a water shortage, is declared by the District Governing Board, the permittee must adhere to the water shortage restriction as specified by the District, even though the specified water shortage restrictions may be inconsistent with the terms and conditions of this permit.
3. Prior to the construction, modification, or abandonment of a well, the permittee must obtain a Water Well Construction Permit from the St. Johns River Water Management District, or the appropriate local government pursuant to Chapter 40C-3, Florida Administrative Code. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. Legal uses of water existing at the time of the permit application may not be interfered with by the consumptive use. If unanticipated interference occurs, the District may revoke the permit in whole or in part to curtail or abate the interference unless the permittee mitigates for the interference. In those cases where other permit holders are identified by the District as also contributing to the interference, the permittee may choose to mitigate in a cooperative effort with these other permittees. The permittee must submit a mitigation plan to the District for approval prior to implementing such mitigation.
6. Off-site land uses existing at the time of permit application may not be significantly adversely impacted as a result of the consumptive use. If unanticipated significant adverse impacts occur, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts can be mitigated by the permittee.
7. The District must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a well or facility from which the permitted consumptive use is made or within 30 days of any transfer of ownership or control of the real property at which the permitted consumptive use is located. All transfers of ownership or transfers of permits are subject to the provisions of section 40C-1.612, Florida Administrative Code.
8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve or other withdrawal facility as provided by Section 40C-2.401, Florida Administrative Code. Permittee shall notify the District in the event that a replacement tag is needed.
9. Landscape irrigation is prohibited between the hours of 10:00 a.m. and 4:00 p.m., except as follows:
  - (a) Irrigation using a micro-irrigation system is allowed anytime.
  - (b) The use of reclaimed water for irrigation is allowed anytime, provided appropriate signs

are placed on the property to inform the general public and District enforcement personnel of such use. Such signs must be in accordance with local restrictions.

(c) Irrigation of, or in preparation for planting, new landscape is allowed any time of day for one 30 day period provided irrigation is limited to the amount necessary for plant establishment.

(d) Watering in of chemicals, including insecticides, pesticides, fertilizers, fungicides, and herbicides when required by law, the manufacturer, or best management practices is allowed anytime within 24 hours of application.

(e) Irrigation systems may be operated anytime for maintenance and repair purposes not to exceed ten minutes per hour per zone.

10. All submittals made to demonstrate compliance with this permit must include the CUP number 3077 plainly labeled thereon.

11. This permit will expire 20 years from the date of issuance.

12. Maximum annual withdrawals from the Floridan Aquifer for household type uses, must not exceed:

11.0 million gallons annual withdrawal for 2004

12.0 million gallons annual withdrawal from 2005 through year 2006

13.8 million gallons annual withdrawal from 2007 through year 2009

15.5 million gallons annual withdrawal from 2010 through year 2012

17.3 million gallons annual withdrawal from 2013 through year 2015

19.0 million gallons annual withdrawal from 2016 through year 2018

21.9 million gallons annual withdrawal from 2019 through the duration of the permit

13. Maximum annual withdrawals from the Floridan Aquifer for water utility uses, must not exceed:

0.33 million gallons annual withdrawal for 2004

0.36 million gallons annual withdrawal from 2005 through year 2006

0.41 million gallons annual withdrawal from 2007 through year 2009

0.46 million gallons annual withdrawal from 2010 through year 2012

0.52 million gallons annual withdrawal from 2013 through year 2015

0.57 million gallons annual withdrawal from 2016 through year 2018

0.60 million gallons annual withdrawal from 2019 through the duration of the permit

14. Maximum annual withdrawals from the Floridan Aquifer for commercial establishments, must not exceed 0.4 million gallons.

15. Maximum annual withdrawals from the Floridan aquifer for irrigation/chemigation of urban landscape, must not exceed 0.85 million gallons per acre and must not exceed a total of 1.7 million gallons.

16. Wells N (GRS ID 11113) and S (GRS ID 11114) (as listed on the application) are equipped with totalizing flow meters. These meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications.

17. Total withdrawals from wells N (GRS ID 11113) and S (GRS ID 11114) (as listed on the application) must be recorded continuously, totaled monthly, and reported to the District at least every six months from the initiation of the monitoring using Form No. EN-50. The

reporting dates each year will be as follows for the duration of the permit:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

18. Permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.
19. The permittee must maintain all flow meters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
20. The permittee must implement the Water Conservation Plan submitted to the District on October 16, 2003, and maintain these practices for the duration of the permit.
21. The lowest quality water source, such as reclaimed water and surface/storm water, must be used as irrigation water when deemed feasible pursuant to District rules and applicable state law.



## Notice Of Rights

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Sections 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the rights to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57, Florida Statutes, and Rules 28-106.111 and 28-106.401-.405, Florida Administrative Code. Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka, Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) within twenty-six (26) days of the District depositing notice of District decision in the mail (for those persons to whom the District mails actual notice) or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.
2. If the Governing Board takes action which substantially differs from the notice of District decision, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may choose to pursue mediation as an alternative remedy as described above. Pursuant to District Rule 40C-1.1007, Florida Administrative Code, the petition must be filed at the office of the District Clerk at the address described above, within twenty-six (26) days of the District depositing notice of final District decision in the mail (for those persons to whom the District mails actual notice) or within twenty-one (21) days of newspaper publication of the notice of its final agency action (for those persons to whom the District does not mail actual notice). Such a petition must comply with Rule Chapter 28-106, Florida Administrative Code.
3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.
4. A substantially interested person has the right to an informal hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.
5. A petition for an administrative hearing is deemed filed upon delivery of the petition to the District Clerk at the District headquarters in Palatka, Florida.
6. Failure to file a petition for an administrative hearing, within the requisite time frame shall constitute a waiver of the right to an administrative hearing (Section 28-106.111, Florida Administrative Code).
7. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code and Section 40C-1.1007, Florida Administrative Code.

## Notice Of Rights

8. An applicant with a legal or equitable interest in real property who believes that a District permitting action is unreasonable or will unfairly burden the use of his property, has the right to, within 30 days of receipt of notice of the District's written decision regarding a permit application, apply for a special master proceeding under Section 70.51, Florida Statutes, by filing a written request for relief at the office of the District Clerk located at District headquarters, P. O. Box 1429, Palatka, FL 32178-1429 (4049 Reid St., Palatka, Florida 32177). A request for relief must contain the information listed in Subsection 70.51(6), Florida Statutes.
9. A timely filed request for relief under Section 70.51, Florida Statutes, tolls the time to request an administrative hearing under paragraph no. 1 or 2 above (Paragraph 70.51(10)(b), Florida Statutes). However, the filing of a request for an administrative hearing under paragraph no. 1 or 2 above waives the right to a special master proceeding (Subsection 70.51(10)(b), Florida Statutes).
10. Failure to file a request for relief within the requisite time frame shall constitute a waiver of the right to a special master proceeding (Subsection 70.51(3), Florida Statutes).
11. Any substantially affected person who claims that final action of the District constitutes an unconstitutional taking of property without just compensation may seek review of the action in circuit court pursuant to Section 373.617, Florida Statutes, and the Florida Rules of Civil Procedures, by filing an action in circuit court within 90 days of the rendering of the final District action, (Section 373.617, Florida Statutes).
12. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure within 30 days of the rendering of the final District action.
13. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy on the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.
14. For appeals to the District Court of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.
15. Failure to observe the relevant time frames for filing a petition for judicial review described in paragraphs #11 and #12, or for Commission review as described in paragraph #13, will result in waiver of that right to review.

**Notice Of Rights**  
**Certificate of Service**

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent by U.S.  
Mail to:

CFAT H2O INC  
PO Box 5220  
Ocala, FL 34478

At 4:00 p.m. this <sup>25<sup>th</sup></sup> ~~12<sup>th</sup>~~ day of May, 2004.



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Division of Permit Data Services  
Gloria Lewis, Director

St. Johns River Water Management District  
Post Office Box 1429  
Palatka, FL 32178-1429  
(386) 329-4152

Permit Number: 3077

CONSUMPTIVE USE TECHNICAL STAFF REPORT

April 23, 2004

**3077**

(Formerly 2-083-0220)

**OWNER:** CFAT H20  
Charles Demenzes  
PO Box 5220  
Ocala, FL 34478  
(352) 622-4949

**AGENT:** Miles Christian Anderson Consulting Engineers, Inc  
Miles C. Anderson  
2300 SE 17th St Suite 200  
Ocala, FL 34471  
(352) 629-5591

**APPLICANT:** CFAT H20  
Charles Demenzes  
PO Box 5220  
Ocala, FL 34478  
(352) 622-4949

**PROJECT NAME:** Landfair

**LOCATION:** Marion County  
**Section(s):** 16                      **Township(s):** 14S                      **Range(s):** 22E

**ACREAGE:** 7.0

**WATER USE:**

Requested Allocation: 21.9 million gallons per year (mgy) of ground water from the Floridan aquifer for the household use of 1223 people.  
1.7 mgy ground water from the Floridan aquifer to irrigate 2 acres of urban landscape.  
0.6 mgy of ground water from the Floridan aquifer for water utility.  
0.4 mgy of ground water from the Floridan aquifer for commercial/industrial type use.

Recommended Allocation: same as requested.  
Recommended By: Staff/IFAS  
Recommended Permit Duration: 20 year permit with no compliance reports required pursuant to section 373.236(3), Florida Statutes. Although no compliance reports are required pursuant to section 373.236(3), Florida Statutes. the permittee is required to comply with, and submit all information and data required by, the limiting conditions set forth in the permit.

Objectors: No  
Interested Parties: No

**PREVIOUSLY PERMITTED USE:**

CUP Number (2-083-0220):  
Expiration Date: April 9, 2003  
Allocation: 19.4 million gallons per year (mgy) ground water from the Floridan aquifer for household use of 700 people.

**USE STATUS:**

This is a renewal of a previously issued permit with a modification to increase allocation and population.

**AUTHORIZATION:**

The District authorizes, as limited by the attached permit conditions, the use of 21.9 million gallons per year of ground water from the Floridan aquifer for the household use of 1223 people, 1.7 million gallons per year of ground water from the Floridan aquifer to irrigate 2 acres of urban landscape, 0.6 million gallons per year of ground water from the Floridan aquifer for water utility and 0.4 million gallons per year of ground water from the Floridan aquifer for commercial/industrial type use.

TIMEFRAMES

Date application received:	4/9/03
Date of 1st RAI:	5/2/03
Date of receipt of response to 1st RAI:	6/24/03
Date of 2nd RAI:	7/18/03
Date of receipt of response to 2nd RAI:	10/16/03
Date of 3rd RAI:	10/30/03
Date of receipt of response to 3rd RAI:	3/31/04
Date application complete:	3/31/04
90 <sup>th</sup> day:	7/29/04

**DESCRIPTION OF WATER RESOURCES:**

Based upon topographic information for the area based on Digital Raster Graphics of USGS topographic maps in the District's Geographic Information System, surface water in the general vicinity of the project occurs in small ponds and topographic depressions.

The USGS topographic map indicates the typical land surface elevation in the vicinity of the project to be between 75 and 100 feet (National Geodetic Vertical Datum, or NGVD).

**PROJECT DESCRIPTION:**

Project Location

The project is located about one mile south of Anthony on State Road 200A in Marion County.

Background

This is an application for the renewal of an existing public supply operation with a modification to increase allocation and population and add urban landscape irrigation and commercial/industrial type use. The applicant proposes to use two existing 8-inch diameter wells to provide water for household use for an estimated population of 1223 people, water utility in the amount of 3 percent, 2 acres of urban landscape and commercial/industrial type uses.

	PRESENT	20 YEARS
Population Served:	580	1223
Average Daily Use - Household (MGALS):	0.028	0.06
GPCD (average) - Household:	49.0	49.0
Yearly Use - Household (MGALS):	10.4	21.9
Yearly Use - Water Utility (MGALS):	0.3	0.6
Yearly Use – Urban Landscape (MGALS):	1.7	1.7
Yearly Use - Commercial/Industrial (MGALS):	0.2	0.4
Yearly Use - Total (MGALS):	12.6	24.6

Effluent Disposal: All wastewater is disposed of through an on-site water treatment plant.

Water Supply System Description

Two existing 8-inch diameter wells will be used to supply the household needs of 1223 people, urban landscape, water utility and commercial/industrial type use.

Water Use Information

Water use for public supply has increased during the previous permit and is not expected to increase over the next 20 years after the modifications.

**STATION INFORMATION:**

**SITE NAME:** Landfair

**Well Information:**

Well No.	GRS Station No.	Casing Diameter (inches)	Well Depth (feet)	Status	Source
N	11113	8	215	Active	Floridan Aquifer
S	11114	8	145	Active	Floridan Aquifer

**PERMIT APPLICATION REVIEW:**

Section 373.223, F.S., and Section 40C-2.301, F.A.C., require an applicant to establish that the proposed use of water:

- (a) is a reasonable-beneficial use;

(b) will not interfere with any presently existing legal use of water; and,

(c) is consistent with the public interest.

In addition, the above requirements are detailed further in the District's Applicant's Handbook: Consumptive Uses of Water, April 10, 2002. District staff has reviewed the consumptive use permit application pursuant to the above-described requirements and have determined that the application meets the conditions for issuance of this permit. Highlights of the staff review are provided below.

*The use must be in such quantity as is necessary for economic and efficient utilization (10.3 (a) A.H.):*

- Issue:** Staff evaluated whether the proposed use of water is in such quantity as is necessary for economic and efficient utilization.
- Rule:** Section 10.3 (a), A.H., provides that the quantity applied for must be within acceptable standards for the designated use as outlined in section 12.0, A.H., which addresses the evaluation of the proposed use of water. Since the proposed use is for household, commercial/industrial, urban landscape and water utility type use, sections 12.2, and 12.3 A.H. applies. Sections 12.2, and 12.3 A.H., provides that the reasonable beneficial uses must be demonstrated by the applicant. For public water supply systems, this amount is calculated based upon the projected requirements of the population as to its industrial, commercial and other users supplied by the permittee.
- Analysis:** Staff considered the quantity of water requested for the household, commercial/industrial, urban landscape and water utility type use. Water use for household, commercial/industrial, urban landscape and water utility type use is within accepted industry standards, based upon published IFAS and AWWA information.
- Conclusion:** Based on the above, staff has concluded that the proposed use is an economic and efficient use of water pursuant to Section 10.3(a), A.H, provided the permittee complies with the conditions recommended for this permit.

*The use must be for a purpose which is both reasonable and consistent with the public interest (10.3(b), A.H.):*

- Issue:** Staff evaluated whether the proposed use of water is for a purpose which is both reasonable and consistent with the public interest.
- Rule:** Section 10.3 (b), A.H., provides that the proposed use must be for a purpose which is both reasonable and consistent with the public interest.
- Analysis:** The applicant has stated that the purpose for the proposed use is to supply its customers with the water necessary for household, commercial/industrial, urban landscape and water utility type use. The demand for water is directly related to the public's demand for household, commercial/industrial, urban landscape and water utility type use, with peak flows and averages reflected in the recommended allocation.

Conclusion: Based on the above, staff has concluded that the proposed use is for a purpose which is both reasonable and consistent with the public interest pursuant to Section 10.3(b), A.H, provided the permittee complies with the conditions recommended for this permit.

*The source of water must be capable of producing the requested amounts of water (10.3(c), A.H.):*

Issue: Staff evaluated whether the proposed sources of water are capable of producing the requested amounts of water.

Rule: Section 10.3(c), A.H., provides that the source of the water must be capable of producing the requested amounts of water. This capability will be based upon records available to the District at the time of evaluation. An eight-of-ten year capability will be considered acceptable.

Analysis: Water withdrawals at this project will utilize two existing 8-inch diameter Floridan aquifer wells.

The thickness of the upper Floridan Aquifer in the vicinity of the project site is estimated at 235 feet. Ground water modeling (see discussion under Interference to Existing Legal Uses) of the maximum annual Floridan Aquifer withdrawal allowed predicts no drawdown at the property boundary for this project.

Conclusion: Based on the above, staff has concluded that the proposed sources of water are capable of producing the requested amounts of water pursuant to Section 10.3(c), A.H, provided the permittee complies with the conditions recommended for this permit.

*The environmental or economic harm caused by the consumptive use must be reduced to an acceptable amount (10.3(d), A.H.):*

Issue: Staff evaluated whether the environmental or economic harm caused by the proposed consumptive use has been reduced to an acceptable amount.

Rule: Section 10.3(d), A.H., provides that environmental or economic harm caused by the consumptive use must be reduced to an acceptable amount. The methods for reducing harm include: reducing the amount of water withdrawn, modifying the method or schedule of withdrawal, or mitigating the damages caused (see also subsections 9.4.3 and 9.4.4, A.H.).

Analysis: There are no wetlands or other environmentally sensitive areas on or near the site within the influence of the Floridan Aquifer well.

Conclusion: Based on the above, staff has concluded that the environmental or economic harm caused by the proposed consumptive use has been reduced to an acceptable amount pursuant to Section 10.3(d), A.H, provided the permittee complies with the conditions recommended for this permit.



All available water conservation measures must be implemented unless the applicant demonstrates that implementation is not economically, environmentally or technically feasible (10.3 (e), A.H.):

Issue: Staff evaluated whether the Water Conservation Plan prepared by the applicant makes use of all available water conservation measures unless the applicant demonstrates that implementation is not economically, environmentally or technologically feasible.

Rule: Section 10.3(e), A.H., provides that all available water conservation measures must be implemented unless the applicant demonstrates that implementation is not economically, environmentally or technologically feasible. Satisfaction of this criterion may be demonstrated by implementation of an approved water conservation plan as required in section 12.0, A.H.

Analysis: The staff evaluated whether the proposed withdrawal of water by this project meets the District's water conservation requirements set forth in section 10.3 12.2 and 12.3, of the Applicant's Handbook (A.H.). Subsection 10.3(e), A.H., provides that all available water conservation measures must be implemented unless the applicant demonstrates that implementation is not economically, environmentally or technologically feasible. The rule, however, provides that satisfaction of this criterion may be met by demonstration that the applicant is meeting, or will meet, the water conservation requirements set forth in sections 12.2.5.1, and 12.3.2.1 A.H. The applicant has submitted documentation satisfying each of the requirements of sections 12.2.5.1, and 12.3.2.1 A.H. In order to satisfy the requirements of subsections 12.2.5.1, and 12.3.2.1 A. H., the applicant submitted the following water conservation measures, which have been reviewed and approved by staff.

1. All service connections are metered.
2. Leak and/or clog detection and repair system is in place.
3. Use bill stuffers to provide water conservation tips and information to customers.
4. Low volume fixtures are required by county codes for new construction.
5. Indoor water audits provided for customers.
6. Rain sensor shutoff system currently being used for urban landscape.
7. Mulch is used around the plants to conserve water.
8. Water utility is only 3 percent.

Conclusion: Based on the above, staff has concluded that the applicant's water conservation plan makes use of all available water conservation measures that are economically, environmentally or technologically feasible within the time frame of the proposed permit pursuant to Section 10.3(e), A.H, provided the permittee complies with the conditions recommended for this permit.

All available reclaimed water must be used in place of higher quality water sources unless the applicant demonstrates that implementation is not economically, environmentally or technically feasible (10.3 (f), A.H.):

- Issue: Staff evaluated whether the proposed consumptive use makes use of readily available reclaimed water unless the applicant demonstrates that its use is not economically, environmentally, or technologically feasible.
- Rule: Section 10.3(f), A.H., provides that when reclaimed water is readily available it must be used in place of higher quality water sources unless the applicant demonstrates that its use is not economically, environmentally, or technologically feasible.
- Analysis: Reclaimed water is not an appropriate use for household, commercial/industrial and water utility type use. Reclaimed water is not economically feasible for the existing 2 acres of urban landscape.
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use makes use of readily available reclaimed water to the extent reclaimed water is economically, environmentally, or technologically feasible within the time frame of the proposed permit pursuant to Section 10.3(f), A.H, provided the permittee complies with the conditions recommended for this permit.

The lowest acceptable quality water source, including reclaimed water or surface water, must be used in place of higher quality water sources unless the applicant demonstrates that implementation is not economically, environmentally or technically feasible (10.3 (g), A.H.):

- Issue: Staff evaluated whether the proposed consumptive use makes use of the lowest acceptable quality water source for each proposed consumptive use of water.
- Rule: Section 10.3(g), A.H., provides that the lowest acceptable quality water source, including reclaimed water or surface water (which includes storm water), which is addressed in paragraph 40C-2.301(4)(f), must be utilized for each consumptive use. To use a higher quality water source an applicant must demonstrate that the use of all lower quality water sources will not be economically, environmentally, or technologically feasible.
- Analysis: Reclaimed water is not an appropriate use for household, commercial/industrial and water utility type use. Reclaimed water is not economically feasible for the existing 2 acres of urban landscape. The staff is requiring the applicant to use the most beneficial lower quality source of water, as determined by the District, that is available and feasible (Other Condition No. 12).
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use makes use of the lowest acceptable quality water source for each proposed consumptive use of water to the extent

such uses are economically, environmentally, or technologically feasible within the time frames of the proposed permit pursuant to Section 10.3(g), A.H., provided the permittee complies with the conditions recommended for this permit.

*The consumptive use must not cause significant saline water intrusion or further aggravate existing saline water intrusion problems (10.3 (h), A.H.):*

- Issue: Staff evaluated whether the proposed consumptive use will cause or exacerbate saline water intrusion.
- Rule: Section 10.3(h), A.H., provides that the consumptive use should not cause significant saline water intrusion or further aggravate currently existing saline water intrusion problems.
- Analysis: The sources of water listed in the permit are the Floridan Aquifer and located in an area with no history of significant saline water intrusion problems within the aquifer.
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use does not cause or contribute to saline water intrusion within the time frames of the proposed permit pursuant to Section 10.3(h), A.H., provided the permittee complies with the conditions recommended for this permit.

*The consumptive use must not cause or contribute to flood damage (10.3 (i), A.H.):*

- Issue: Staff evaluated whether the proposed consumptive use will cause or contribute to flood damage.
- Rule: Section 10.3(i), A.H., provides that consumptive use should not cause or contribute to flood damage.
- Analysis: The applicant does not discharge water from the site except for and rainwater runoff. Historically, these have not caused any complaints from local residents or regulatory personnel.
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use is unlikely to cause or contribute to flood damage pursuant to Section 10.3(i), A.H., provided the permittee complies with the conditions recommended for this permit.

*The water quality of the source of the water must not be seriously harmed by the consumptive use (10.3 (j), A.H.):*

- Issue: Staff evaluated whether the proposed consumptive use will harm the quality of the proposed source of water.
- Rule: Section 10.3(j), A.H., provides that the water quality of the source of the water should not be seriously harmed by the consumptive use.
- Analysis: The water quality of the upper Floridan aquifer in the vicinity of this site is less than 50 mg/l in chlorides. During the past years of record water quality appears to remain fairly stable.
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use is unlikely to cause serious harm to the proposed

source of water pursuant to Section 10.3(j) and 9.4.2, A.H, provided the permittee complies with the conditions recommended for this permit.

*The consumptive use must not cause or contribute to a violation of state water quality standards in receiving waters of the state (10.3 (k), A.H.):*

- Issue: Staff evaluated whether the proposed consumptive use will cause or contribute to a violation of state water quality standards.
- Rule: Section 10.3(k), A.H., provides that the consumptive use shall not cause or contribute to a violation of state water quality standards in receiving waters of the state, as set forth in chapters 62-3, 62-4, 62-302, 62-520, and 62-550, F.A.C.
- Analysis: The applicant does not discharge water from the site except for rainfall runoff. Historically these discharges have not caused any complaints from local residents or regulatory personnel.
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use will not cause or contribute to a violation of state water quality standards pursuant to Section 10.3(k), A.H.

*The consumptive use must not cause an interference with an existing legal use of water (9.2, A.H.):*

- Issue: Staff evaluated whether the proposed use of water will cause an interference with a legal use of water.
- Rule: Section 9.2, A.H., provides that the consumptive use must not cause an interference with a legal use of water which existed at the time of the application for the initial consumptive use permit. An interference is defined as a decrease in the withdrawal capability of any individual withdrawal facility of a legal use of water which was existing at the time of the application for the initial permit such that the existing user experiences economic, health, or other type of hardship as specified in Section 9.4.4, A.H.
- Analysis: The Drawdown model (drawdown simulation for a leaky artesian aquifer) simulated the water demand requiring the average daily allocation of 0.07 MGD as the withdrawal rate. The model predicts no drawdown at the property boundary nearest the well.
- Conclusion: Based on the above, staff has concluded that the proposed consumptive use is unlikely to cause an interference with a legal use of water pursuant to Section 9.2, A.H., provided the permittee complies with the conditions recommended for this permit.

*The consumptive use of water must be consistent with the public interest (9.3, A.H.):*

- Issue: Staff evaluated whether the proposed consumptive use is consistent with the public interest.
- Rule: Section 9.3, A.H., defines “public interest” as those rights and claims on behalf of people in general. In determining the public interest in consumptive use permitting decisions, the Board will

consider whether an existing or proposed use is beneficial or detrimental to the overall collective well being of the people or to the water resource in the area, the District, and the State.

**Analysis:** The proposed use of water is for household, commercial/industrial, urban landscape and water utility type use, which constitutes a bona-fide economic activity that will not adversely affect water resources, and qualifies as a reasonable-beneficial use based on the factors listed in 40C-2.301(4)(a), (b), (d), (e), (f), (g), (i) and (k), F.A.C., and none of the reasons for denial relating to saline water intrusion, water use reservations, minimum flows and levels, and water table/surface water levels apply to the proposed use.

**Conclusion:** Based on the above, staff has determined that the proposed use is consistent with the public interest pursuant to Section 9.3, A.H., provided the permittee complies with the conditions recommended for this permit.

***Reasons for Recommendation for Denial (Section 9.4, A.H.):***

*The proposed use will induce significant saline water intrusion to such an extent as to be inconsistent with the public interest*

**Issue:** Staff evaluated whether the proposed use will induce significant saline water intrusion to such an extent as to be inconsistent with the public interest.

**Rule:** Sections 9.4.1(a) and 9.4.2, A.H., provide that issuance of a permit will be denied if the permit would allow withdrawals of water that would cause significant saline water intrusion. Significant saline water intrusion is defined as saline water encroachment which detrimentally affects the applicant or other existing legal users of water, or is otherwise detrimental to the public interest.

**Analysis:** As discussed above in addressing the criteria specified in Section 10.3(h), A.H., the existing sources of water, as well as the location of the project site, minimize any potential for significant saline water intrusion.

**Conclusion:** Based on the above, staff has concluded that the proposed consumptive use is unlikely to cause significant saline water intrusion pursuant to Section 9.4.2, A.H., provided the permittee complies with the conditions recommended for this permit.

*The proposed use will cause the water table or surface water level to be lowered so that stages or vegetation will be adversely and significantly affected on lands other than those owned, leased or otherwise controlled by the applicant*

**Issue:** Staff evaluated whether the proposed use will cause the water table or surface water level to be lowered so that stages or vegetation will be adversely and significantly affected on lands other than those owned, leased or otherwise controlled by the applicant.

**Rule:** Section 9.4.1(b) and 9.4.3, A.H., provide that issuance of a permit will be denied if the permit would allow withdrawals of water that would

cause an unmitigated adverse impact on an adjacent land use which existed at the time of permit application.

Analysis: The source proposed for use at this site is the Floridan Aquifer. Given that staff considers the predicted drawdown in the Floridan Aquifer resulting from the withdrawal of the recommended allocation to be minimal (discussed above), staff also considers the potential drawdown within the Surficial aquifer to be minimal, and predicts it will not cause: significant reduction in water levels in an adjacent surface water body; significant potential for land collapse or subsidence caused by a reduction in water levels; or damage to crops, wetlands or other types of vegetation.

Conclusion: Based on the above, staff has concluded that the proposed consumptive use is unlikely to cause an unmitigated adverse impact on an adjacent land use which existed at the time of permit application pursuant to Section 9.4.3, A.H, provided the permittee complies with the conditions recommended for this permit.

*The proposed use will cause the water table level or aquifer potentiometric surface level to be lowered so that interference will be caused to legal users*

Issue: Staff evaluated whether the proposed use will cause the water table level or aquifer potentiometric surface level to be lowered so that interference will be caused to legal users.

Rule: Section 9.4.1(c) and 9.4.4, A.H., provide that issuance of a permit will be denied if the permit would allow withdrawals of water that would cause an interference with a legal use of water which existed at the time of permit application.

Analysis: As discussed above in addressing the criteria specified in Section 9.2, A.H., the predicted Floridan Aquifer drawdown at the property boundary nearest the well, coupled with the location of the project, is considered to represent a minimal potential for adverse impact to existing legal users.

Conclusion: Based on the above, staff has concluded that the proposed consumptive use is unlikely to cause an interference with a legal use of water which existed at the time of permit application pursuant to Section 9.4.4, A.H, provided the permittee complies with the conditions recommended for this permit.

*The proposed use will require the use of water which pursuant to subsection 373.223(3), F.S., and subsection 40C-2.301(4), F.A.C., the Board has reserved from use by rule*

Issue: Staff evaluated whether the proposed use will require the use of water which pursuant to subsection 373.223(3), F.S., and subsection 40C-2.301(4), F.A.C., the Board has reserved from use by rule.

Rule: Section 9.4.1(d) and 9.4.5, A.H., provide that issuance of a permit will be denied if the permit would allow withdrawals of water that the Governing Board by regulation may have reserved from use by permit applicants, water in such locations and quantities, and for such seasons of the year, as in its judgment may be required for the protection of fish and wildlife or the public health and safety.

Analysis: There have been no quantities of water from the proposed sources in the vicinity of the project site that have been reserved from use by permit applicants.

Conclusion: Based on the above, staff has concluded that the proposed consumptive use is unlikely to require the use of water which pursuant to subsection 373.223(3), F.S., and subsection 40C-2.301(4), F.A.C., the Board has reserved from use by rule, provided the permittee complies with the conditions recommended for this permit.

*The proposed use will cause the rate of flow of a surface watercourse to be lowered below a minimum flow which has been established pursuant to subsection 373.042(1), F.S., or section 40C-8.031, F.A.C.*

Issue: Staff evaluated whether the proposed consumptive use will adversely affect minimum flows of surface water that have been specified by rule.

Rule: Section 9.4.1(e) and 9.4.6, A.H. provides that issuance of a permit will be denied if the permit would allow withdrawals of water to cause the rate of flow of a surface watercourse to be lowered below a minimum flow which has been established pursuant to subsection 373.042(1), F.S., or section 40C-8.031, F.A.C.

Analysis: Chapter 40C-8, F.A.C., revised May 11, 2003, does not list minimum flows for surface watercourse in the vicinity of this project.

Conclusion: Based on the above, staff has concluded that the proposed consumptive use will not will adversely affect minimum flows of surface water that have been specified in Chapter 40C-8, F.A.C., for specified bodies of water, provided the permittee complies with the conditions recommended for this permit.

*The proposed use will cause the level of a water table aquifer, the potentiometric surface level of an aquifer, or the water level of a surface water to be lowered below a minimum level which has been established pursuant to subsection 373.042(2), F.S., or section 40C-8.031, F.A.C.*

Issue: Staff evaluated whether the proposed consumptive use will adversely affect minimum water levels in groundwater or surface water bodies that have been specified by rule.

Rule: Section 9.4.1(f) and 9.4.7, A.H. provides that issuance of a permit will be denied if the permit would allow withdrawals of water to cause the level of a water table aquifer, the potentiometric surface level of an aquifer, or the water level of a surface water to be lowered below a minimum level which has been established pursuant to subsection 373.042(2), F.S., or section 40C-8.031, F.A.C.

Analysis: A minimum water level of the water table, potentiometric surface of the Floridan aquifer, or any surface water body has not been established pursuant to subsection 373.042(2), F.S., or section 40C-8.031, F.A.C., within the area of influence caused by the applicant's proposed withdrawals.

Conclusion: Based on the above, staff has concluded that the proposed consumptive use will not will adversely affect minimum levels in groundwater or surface water bodies that have been specified in Chapter 40C-8, F.A.C., for specified bodies of water, provided the permittee complies with the conditions recommended for this permit.

**PERMIT DURATION:**

The applicant has requested a 20-year duration permit. Section 6.5.1, A.H., states that when requested by an applicant, a consumptive use permit shall have a duration of 20 years provided that the applicant provides reasonable assurance that the proposed use meets the conditions for issuance in section 40C-2.301, F.A.C. and the criteria in Part II, A.H., for the requested 20-year permit duration. Staff has concluded that the applicant has met the above requirements and is therefore recommending issuance of a 20-year permit.

**RECOMMENDATION:** Staff have concluded that the proposed use, as limited by the attached permit conditions, is reasonable-beneficial, will not cause or contribute to interference with existing legal uses, and is consistent with the public interest. Staff, therefore, recommends approval of this application.

**GENERAL CONDITIONS BY STAFF (April 10, 2002):**

1, 2, 3, 4, 5, 6, 7, 8, 13

**OTHER CONDITIONS:**

1. All submittals made to demonstrate compliance with this permit must include the CUP number 3077 plainly labeled thereon.
2. This permit will expire 20 years from the date of issuance.
3. Maximum annual withdrawals from the Floridan Aquifer for household type uses, must not exceed:
  - 11.0 million gallons annual withdrawal for 2004
  - 12.0 million gallons annual withdrawal from 2005 through year 2006
  - 13.8 million gallons annual withdrawal from 2007 through year 2009
  - 15.5 million gallons annual withdrawal from 2010 through year 2012
  - 17.3 million gallons annual withdrawal from 2013 through year 2015
  - 19.0 million gallons annual withdrawal from 2016 through year 2018
  - 21.9 million gallons annual withdrawal from 2019 through the duration of the permit
4. Maximum annual withdrawals from the Floridan Aquifer for water utility uses, must not exceed:
  - 0.33 million gallons annual withdrawal for 2004
  - 0.36 million gallons annual withdrawal from 2005 through year 2006
  - 0.41 million gallons annual withdrawal from 2007 through year 2009
  - 0.46 million gallons annual withdrawal from 2010 through year 2012
  - 0.52 million gallons annual withdrawal from 2013 through year 2015



0.57 million gallons annual withdrawal from 2016 through year 2018  
0.60 million gallons annual withdrawal from 2019 through the duration of the permit

5. Maximum annual withdrawals from the Floridan Aquifer for commercial establishments, must not exceed 0.4 million gallons.
6. Maximum annual withdrawals from the Floridan aquifer for irrigation/chemigation of urban landscape, must not exceed 0.85 million gallons per acre and must not exceed a total of 1.7 million gallons.
7. Wells N (GRS ID 11113) and S (GRS ID 11114) (as listed on the application) are equipped with totalizing flow meters. These meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications.
8. Total withdrawals from wells N (GRS ID 11113) and S (GRS ID 11114) (as listed on the application) must be recorded continuously, totaled monthly, and reported to the District at least every six months from the initiation of the monitoring using Form No. EN-50. The reporting dates each year will be as follows for the duration of the permit:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

9. Permittee must have all flow meters checked for accuracy at least once every 3 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. District Form No. EN-51 must be submitted to the District within 10 days of the inspection/calibration.
10. The permittee must maintain all flow meters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
11. The permittee must implement the Water Conservation Plan submitted to the District on October 16, 2003, and maintain these practices for the duration of the permit.
12. The lowest quality water source, such as reclaimed water and surface/storm water, must be used as irrigation water when deemed feasible pursuant to District rules and applicable state law.

**REVIEWER:**

Randall Motes  
Cecil Slaughter



# ATTACHMENT B

Florida's DEP 2020 Inspection Report



# 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

June 24, 2020

Charles Demenzes, Owner  
CFAT H2O Inc.  
NE 78<sup>th</sup> St. CR 200A  
Ocala, FL 34478  
[charlie@altfo.com](mailto:charlie@altfo.com)

Re: Landfair Subdivision  
PW Facility ID #3424690  
Marion County

Dear Mr. Demenzes:

Department personnel conducted an inspection of the above-referenced facility on May 22, 2020. Based on the information provided during the inspection, the facility was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records, and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. Should you have any questions or comments, please contact Amada Fernandez at 407-897-4159 or via e-mail at [Amada.M.Fernandez@FloridaDEP.gov](mailto:Amada.M.Fernandez@FloridaDEP.gov).

Sincerely,

A handwritten signature in cursive script, appearing to read "Jill Farris".

Jill Farris, Manager  
Central District  
Florida Department of Environmental Protection

Enclosure: Inspection Report

cc: Amada Fernandez and Jill Farris, FDEP  
[UTILITIESMANAGEMENTTEAM@GMAIL.COM](mailto:UTILITIESMANAGEMENTTEAM@GMAIL.COM)  
Steve McGee, [smcgee1953@yahoo.com](mailto:smcgee1953@yahoo.com)

State of Florida  
Department of Environmental Protection  
Central District  
**SANITARY SURVEY REPORT**

Plant Name LANDFAIR SUBDIVISION County Marion PWS ID # 3424690  
Plant Location NE 78<sup>th</sup> Street and CR 200A, Ocala, FL 34478 Phone 352-622-4949  
Owner Name CFAT H2O Inc. Phone 352-622-4949  
Owner Address P.O Box 5220, Ocala, FL 34478  
Contact Person Charles Demenzes Title Owner Phone 352-622-4949  
This Survey Date 5/22/20 Last Survey Date 7/13/17 Last Compliance Inspection Date 6/26/01

**PWS TYPE:** Community

**PLANT CATEGORY & CLASS:** 5C

**MAX-DAY DESIGN CAPACITY:** 360,000 gpd

**PWS STATUS:** Approved

**TREATMENT PROCESSES IN USE**

Hypochlorination

**SERVICE AREA CHARACTERISTICS**

Subdivision

Food Service:  Yes  No  N/A

Number of Service Connections 232

Population Served 580 Basis Operator

**OPERATION & MAINTENANCE LOG:** Yes

Location Water treatment plant

Comments \_\_\_\_\_

**CERTIFIED OPERATOR:** Yes

Operator(s) & Certification Class-Number:

Steve McGee C-8154

Hrs/day: *Required* \_\_\_\_\_ *Visit\** \_\_\_\_\_ *Actual* \_\_\_\_\_ *Visit\** \_\_\_\_\_

Days/wk: *Required* 5+1 *Actual* 5+1

Non-consecutive Days?  Yes  No  N/A

Comments \*Visit must total 0.6 hr/week

**MONTHLY OPERATION REPORTS (MORs)**

MORs submitted regularly?  Yes  No  N/A

Data missing from MORs?  No  Yes  N/A

Average Day (from MORs) 27,449 gpd

Maximum Day (from MORs) 60,000 gpd 7/2019

Comments \_\_\_\_\_

Flow Measuring Device Flow Meter

Meter Size & Type 6" Precision

Date Last Calibrated 6/4/20

**RAW WATER SOURCE**

GROUND; Number of Wells 2

PURCHASED from PWS ID # \_\_\_\_\_

Emergency Water Source \_\_\_\_\_

Emergency Water Capacity \_\_\_\_\_

**STANDBY POWER SOURCE:** Yes

Source Diesel

Capacity of Standby (kW) 75

Switchover:  Automatic  Manual

Hrs Operated Under Load 1 hr/wk.

What equipment does it operate?

Well Pumps All

High Service Pumps All

Treatment Equipment All

Satisfy avg. daily demand?  Yes  No  Unknown

Audio-visual alarm?  Yes  No

Comments \_\_\_\_\_

**PLANS AND MAPS**

Coliform Sampling Plan  Yes  No  N/A

D/DBP Monitoring Plan  Yes  No  N/A

Lead and Copper Plan  Yes  No  N/A

Distribution System Map  Yes  No  N/A

Emergency Response Plan  Yes  No  N/A

Comments \_\_\_\_\_

**PREVENTIVE MAINTENANCE/O&M**

Operation & Maintenance Manual  Yes  No

Preventive Maintenance Program  Yes  No  N/A

Flushing Program  Yes  No  N/A

Records  Yes  No  N/A

Isolation Valve Exercise  Yes  No  N/A

Records  Yes  No  N/A

Comments \_\_\_\_\_

**CROSS CONNECTION CONTROL**

# BFPAs None noted # Tested Unknown

WWTP RPZ Yes Date Tested Unknown

Written Plan Yes Date N/A

Comments \_\_\_\_\_

**GROUND WATER SOURCE**

Well Number (Florida Unique Well ID #)		East 2 (AAG9305)	West 3		
Year Drilled		1985	2005		
Depth Drilled		145'	190'		
Drilling Method		Cable tool	Combination		
Type of Grout		Neat cement	Unknown		
Static Water Level		Unknown	65'		
Pumping Water Level		Unknown	Unknown		
Design Well Yield		Unknown	Unknown		
Test Yield		Unknown	150 gmp		
Actual Yield (if different than rated capacity)		Unknown	Unknown		
Strainer		Unknown	Unknown		
Length (outside casing)		84'	87'		
Diameter (outside casing)		8"	4"		
Material (outside casing)		Black steel	Black steel		
Well Contamination History		None	None		
Is inundation of well possible?		No	No		
6' X 6' X 4" Concrete Pad		Yes	Yes		
SET BACKS	Septic Tank	>200'	>200'		
	Reuse Water	N/A	N/A		
	WW Plumbing	>200'	>200'		
	Other Sanitary Hazard	None observed	None observed		
PUMP	Type	Submersible	Submersible		
	Manufacturer Name	Unknown	Grundfos		
	Model Number	Unknown	150S100-5		
	Rated Capacity (gpm)	500	150		
	Motor Horsepower	5	10		
Well casing 12" above grade?		No*	Yes		
Well Casing Sanitary Seal		OK	OK		
Raw Water Sampling Tap		Yes	Yes		
Above Ground Check Valve		Yes	Yes		
Security		Yes	Yes		
Well Vent Protection		N/A	Yes		

**COMMENTS** \*The Department will continue to accept the well casing height as it currently exists unless it is shown to contain chemical or microbial contamination.

**CHLORINATION (Disinfection)**

Type:  Gas  Hypo  
 Make Chem Tech Capacity 30 gpd  
 Chlorine Feed Rate 40% stroke  
 Avg. Amount of Cl<sub>2</sub> gas used N/A  
 Chlorine Residuals: Plant 1.76 Remote 1.21  
 Remote tap location Marathon back sink  
 DPD Test Kit:  On-site  With operator  
 None  Not Used Daily  
 Injection Points Prior to ground storage tank  
 Booster Pump Info N/A  
 Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**STORAGE FACILITIES**

(G) Ground (C) Clearwell (E) Elevated  
 (B) Bladder (H) Hydropneumatic / flow-through

Tank Type/Number	H	G	B
Capacity (gal)	20,000	200,000	200
Material	Steel	Steel	Steel
Gravity Drain	Yes	Yes	N/A
By-Pass Piping	Yes	Yes	N/A
Protected Openings	Yes	Yes	N/A
Sight Glass or Level Indicator	Yes	Yes	N/A
PRV/ARV	PRV	N/A	N/A
Pressure Gauge	Yes	N/A	N/A
On/Off Pressure	52/62	N/A	N/A
Access Secured	Yes	Yes	Yes
Access Manhole	Yes	Yes	No
Tank Sample Tap Location	On tank	On tank	N/A
Date of Inspection	12/19	12/19	N/A
Date of Cleaning	12/19	12/19	N/A

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Chlorine Gas Use Requirements	YES	NO	Comments
Dual System	<input type="checkbox"/>	<input type="checkbox"/>	<b>Diagonally crossed out</b>
Auto-switchover	<input type="checkbox"/>	<input type="checkbox"/>	
Alarms: Loss of Cl <sub>2</sub> capability	<input type="checkbox"/>	<input type="checkbox"/>	
Loss of Cl <sub>2</sub> residual	<input type="checkbox"/>	<input type="checkbox"/>	
Cl <sub>2</sub> leak detection	<input type="checkbox"/>	<input type="checkbox"/>	
Scale	<input type="checkbox"/>	<input type="checkbox"/>	
Chained Cylinders	<input type="checkbox"/>	<input type="checkbox"/>	
Reserve Supply	<input type="checkbox"/>	<input type="checkbox"/>	
Adequate Air-pak	<input type="checkbox"/>	<input type="checkbox"/>	
Sign of Leaks	<input type="checkbox"/>	<input type="checkbox"/>	
Fresh Ammonia	<input type="checkbox"/>	<input type="checkbox"/>	
Ventilation	<input type="checkbox"/>	<input type="checkbox"/>	
Room Lighting	<input type="checkbox"/>	<input type="checkbox"/>	
Warning Signs	<input type="checkbox"/>	<input type="checkbox"/>	
Repair Kits	<input type="checkbox"/>	<input type="checkbox"/>	
Fitted Wrench	<input type="checkbox"/>	<input type="checkbox"/>	
Housing/Protection	<input type="checkbox"/>	<input type="checkbox"/>	

**HIGH SERVICE PUMPS**

Pump Number	1	2	3
Type	Vertical turbine	Vertical turbine	Vertical turbine
Make	Goulds	Goulds	Goulds
Model	92SV	92SV	92SV
Capacity (gpm)	500	500	500
Motor HP	20	20	20
Date Installed	~5/07	~5/07	~5/07

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**AERATION (Gases, Fe, & Mn Removal)**

Type \_\_\_\_\_ Capacity \_\_\_\_\_  
 Aerator Condition \_\_\_\_\_  
 Visible Algae Growth \_\_\_\_\_  
 Protective Screen Condition \_\_\_\_\_  
 Frequency of Cleaning \_\_\_\_\_  
 Date Last Inspected/Cleaned \_\_\_\_\_  
 Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**DEFICIENCIES:**

No deficiencies noted at the time of inspection.

**MONITORING REMINDER:**

- Nitrate and nitrite samples are required to be collected from the point of entry (POE) to the distribution system annually. The 2020 results have not been received.
- The consumer confidence report (CCR) must be delivered to consumers and the Department no later than July 1, 2020, and certification of delivery of the CCR must be submitted to the Department no later than August 10, 2020.
- Monitoring schedules are available on the Central District's Drinking Water site:

<https://floridadep.gov/central/central/content/resources-drinking-water-facilities-and-operators-central-district>

**COMMENTS:**

- Contact FRWA (Florida Rural Water Association) at 850-668-2746, or [frwa@frwa.net](mailto:frwa@frwa.net), for free technical assistance with your system. FRWA has extended benefits offered to members.
- Provide documentation that the finished-drinking-water meter has been calibrated at least every 5 years.  
Checking the calibration of finished-drinking-water meters at treatment plants shall be performed in accordance with the equipment manufacturer's recommendations or in accordance with a written preventive maintenance program established by the supplier of water. [Rule 62-555.350(2), F.A.C.]
- Suppliers of water shall submit written notification to the Department before beginning work or alterations to the public water system. Each notification shall be submitted to the appropriate Department of Environmental Protection District Office or Approved County Health Department and shall include the following: a description of the scope, purpose, and location of the work or alterations; and assurance that the work or alterations will comply with applicable requirements listed in Rule 62-555.330, F.A.C. Suppliers of water may begin such work or alterations 14 days after providing notification to the Department unless they are advised by the Department that the notification is incomplete or that a construction permit is required.
- Suppliers of water shall telephone the SWO at 1-800-320-0519 immediately (i.e., within two hours) after discovery of any actual or suspected sabotage or security breach, or any suspicious incident, involving a public water system. [Rule 62-555.350(10)(a), F.A.C.]
- Suppliers of water shall telephone, and speak directly to a person at, the appropriate DEP District Office as soon as possible, but never later than noon of the next business day, in the event of any of the following emergency or abnormal operating conditions:
  - The occurrence of any abnormal color, odor, or taste in a public water system's raw or finished water;
  - The failure of a public water system to comply with applicable disinfection requirements; or
  - The breakdown of any water treatment or pumping facilities, or the break of any water main, in a public water system if the breakdown or break is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(b), F.A.C.]
- Suppliers of water shall notify affected water customers in writing or via telephone, newspaper, radio, or television; and telephone, and speak directly to a person at, the appropriate DEP District Office by no later than the previous business day before taking PWS components out of operation for planned maintenance or repair work if the work is expected to adversely affect finished-water quality, interrupt water service to 150 or more service connections or 350 or more people, interrupt water service to any one service connection for more than eight hours, or necessitate the issuance of a precautionary "boil water" notice in accordance with the Department of Health's "Guidelines for the

Issuance of Precautionary Boil Water Notices" as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(10)(d), F.A.C.]

- Suppliers of water shall issue precautionary “boil water” notices as required or recommended in the Department of Health’s “Guidelines for the Issuance of Precautionary Boil Water Notices” as adopted in Rule 62-555.335, F.A.C. [Rule 62-555.350(11), F.A.C.]



*Inspector Signature*

Amada Fernandez

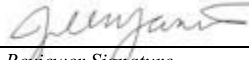
*Printed Name*

Environmental Specialist II

*Title*

6/8/20

*Date*



*Reviewer Signature*

Jill Farris

*Printed Name*

Environmental Manager

*Title*

6/23/20

*Date*



# ATTACHMENT C

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

February 8, 2022

Charles Demenzes, Manager  
C.F.A.T. H2O, Inc.  
1552 SW 7th Rd  
OCALA, FL 34471  
[charlie@altfo.com](mailto:charlie@altfo.com)

Re: Compliance Assistance Offer  
Landfair Subdivision  
PW Facility ID #3424690  
Marion County

Dear Mr. Demenzes:

A file review was conducted on your facility on February 7, 2022. During this file review, potential non-compliance was noted. The purpose of this letter is to offer compliance assistance as a means of resolving this matter.

Specifically, Department records indicate your facility did not perform required testing for *lead and copper* sampling/testing, which were required to be *performed triennially* per rule 62-550, Florida Administrative Code (F.A.C) or according to your permit. The report was due by October 10, 2021 and was submitted late. The report was received by the Department on February 2, 2022.

We request you review the item of concern noted and respond in writing within **15 days** of receipt of this Compliance Assistance Offer. Your written response should include 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.
  - Provide documentation on steps that have been taken to prevent future sampling omissions.
  - The system has incurred a monitoring and reporting violation. For community water systems, this violation must be included on the CCR issued in 2022.
2. Provide the requested information, or information that mitigates the concerns or demonstrates them to be invalid.

Landfair Subdivision; Facility ID No.: 3424690  
Compliance Assistance Offer  
Page 2 of 2  
February 8, 2022

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

Please address your response and any questions to Miranda Rothenberger of the Central District Office at 407-897-4301 or via e-mail at [Miranda.Rothenberger@FloridaDEP.gov](mailto:Miranda.Rothenberger@FloridaDEP.gov). We look forward to your cooperation with this matter.

Sincerely,



Daniel Hall, Environmental Manager  
Central District  
Florida Department of Environmental Protection

cc: Miranda Rothenberger, FDEP  
Reuben Law, [randkenvironmental@outlook.com](mailto:randkenvironmental@outlook.com)

**CLASS "C"**

**WATER AND/OR WASTEWATER UTILITIES**

(Gross Revenue of Less Than \$200,000 Each)

**ANNUAL REPORT**

OF

WS719-20-AR  
Charles de Menzes  
C.F.A.T. H2O, Inc.  
P. O. Box 5220  
Ocala, FL 34478-5220

**OFFICIAL COPY**  
**Public Service Commission**  
**Do Not Remove From This Office**

Submitted To The

**STATE OF FLORIDA**

**PUBLIC SERVICE COMMISSION**

FOR THE

YEAR ENDED

12/31/2020

**Reconciliation of Revenue to  
Regulatory Assessment Fee Revenue  
Water Operations  
Class C**

**Company: CFAT H2O, Inc**

**For the Year Ended December 3 2018**

(a)	(b)	(c)	(d)
Accounts	Gross Water Revenues Per Sch. F-3	Gross Water Revenues Per RAF Return	Difference (b) - (c)
Gross Revenue:			
Residential	87,581	87,581	\$ _____
Commercial	6,237	6,237	_____
Industrial	_____	_____	_____
Multiple Family	_____	_____	_____
Guaranteed Revenues	_____	_____	_____
Other	6,251	6,251	_____
<b>Total Water Operating Revenue</b>	<b>100,069</b>	<b>100,069</b>	<b>\$ _____</b>
<b>LESS: Expense for Purchased Water from FPSC-Regulated Utility</b>	_____	_____	_____
<b>Net Water Operating Revenues</b>	<b>100,069</b>	<b>100,069</b>	<b>\$ _____</b>

Explanations:

Instructions:

For the current year, reconcile the gross water revenues reported on Schedule F-3 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 C**

**Company: CFAT H2O, Inc**

**For the Year Ended December 31 2018**

(a)	(b)	(c)	(d)
Accounts	Gross Wastewater Revenues Per Sch. F-3	Gross Wastewater Revenues Per RAF Return	Difference (b) - (c)
Gross Revenue:			
Residential	87,601	87,601	\$ _____
Commercial	27,186	27,186	_____
Industrial	_____	_____	_____
Multiple Family	_____	_____	_____
Guaranteed Revenues	_____	_____	_____
Other	_____	_____	_____
<b>Total Wastewater Operating Revenue</b>	<b>114,787</b>	<b>114,787</b>	<b>\$ _____</b>
<b>LESS: Expense for Purchased Wastewater from FPSC-Regulated Utility</b>	_____	_____	_____
<b>Net Wastewater Operating Revenues</b>	<b>114,787</b>	<b>114,787</b>	<b>\$ _____</b>

Explanations:

Instructions:

For the current year, reconcile the gross wastewater revenues reported on Schedule F-3 with the gross wastewater revenues reported on the company's regulatory assessment fee return. Explain any differences reported in column (d).

**C.F.A.T. H2o, INC.**

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Verification Section

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REPORT OF

**CFAT H2O, INC.**  
**PO BOX 5220**  
**OCALA, FL 34478-5220**

1552 SW 7th Road    MARION COUNTY

Sunshine State One-Call of Florida, Inc. Member No. **MIR598**

Telephone Number 352-622-4949

Date Utility First Organized

10/28/2003

Filed with the Internal Revenue Service as 1120S Corporation

Name, Address and phone where records are located

1552 SW 7th Road    Ocala, FL 34471

Florida (352) 622-4949 c/o Tradewinds Utilities, Inc.

Subdivision where service is provided:    **Landfair and Hilltop Manor**

CONTACTS

Name	Title	Principal Business Address	Salary Charged
Person to send Correspondence Charles deMenzes	President	P.O. Box 5220 Ocala, FI 34478	0
Person who prepared this report Charles deMenzes	President	P.O. Box 5220 Ocala, FI 34478	20,000
Officers and Managers			
Charles deMenzes	President	P.O. Box 5220 Ocala, FI 34478	25,000
Deborah Dillon	Vice Pres	P.O. Box 5220 Ocala, FI 34478	20,000

Report every Corporation or person owning or holding directly or indirectly 5 percent or more of the voting securities of the reporting utility.

Name	Percent of Ownership in Utility	Principal Business Address	Salary Charged
Charles deMenzes Revocable Trust	100	P.O. Box 5220 Ocala, FI 34478	0



C.F.A.T.H2o, INC.

# FINANCIAL SECTION

## INCOME STATEMENT

ACCOUNT NAME	REF Page	WATER	WASTEWATER	OTHER	TOTAL COMPANY
Gross Revenue					
Residential		87,581	87,601		175,182
Commercial		6,237	27,186		33,423
Other (specify)		6,251			6,251
Turn on Charges					
<b>Total Gross Revenue</b>		<b>100,069</b>	<b>114,787</b>		<b>214,856</b>
Operation Expense (Must tie to Pages W-3 & S-3)	W-3 S-3	68,340	109,385		177,725
Depreciation Expense	F-5	24,702	15,139		39,841
Amortization Expense	F-8	(5,568)	(9,000)		(14,568)
Taxes other than Income	F-7	1,200	1,572		2,772
Reg Assessment Fees	F-7	4,506	5,244		9,750
Total Operating Expenses		93,180	122,340		215,520
Net Operating Income (Loss)		6,889	(7,553)		(664)
Other Income: Non Utility Income					
Other Deductions:					
Interest Expense			1,886		1,886
Amort of Loan Costs					-
Amort of Rate Case Exp					-
<b>Net Income (Loss)</b>		<b>6,889</b>	<b>(9,439)</b>		<b>(2,550)</b>

COMPARATIVE BALANCE SHEET

Account Name	Reference Page	Current Year	Previous Year
<b>Assets:</b>			
Utility Plant in Service (101-105)	F-5,W-1,S-1	1,008,218	993,562
Accumulated Depreciation and Amortization (108)	F-5,W-2,S-2	(692,597)	(652,756)
Net Utility Plant:		315,621	340,806
Cash		2,350	1,393
Customer Accts Receivable (141)		24,429	21,965
Other Assets			1,054
Utility Deposit		2,040	2,040
Prepaid Rate Cse Expense			
Plant Held for Future Use		4,250	4,250
Acquisition Adjustment, net		30,520	33,921
<b>Total Assets</b>		<b>379,210</b>	<b>405,429</b>
<b>Liabilities &amp; Capital</b>			
Common Stock Issued (201)	F-6	200	200
Preferred Stock Issued (204)	F-6		
Other Paid in Capital (211)		564,882	581,482
Retained Earnings (215)	F-6	(358,228)	(353,494)
Total Capital		206,854	228,188
Long Term Debt (224)	F-6	39,800	50,000
Accounts Payable (231)			31,672
Notes Payable (232)			
Customer Deposits (235)		33,529	34,099
Accrued Taxes (236)		(198)	
Other Liabilities (Specify) PSC Fee		9,669	9,341
Refund Checks Returned		1,522	1,520
FFB Credit Line			-
Management Fee Payable		51,993	
Contributions in Aid of Construction-Net (271-272)	F-8	36,041	50,609
<b>Total Liabilities &amp; Capital</b>		<b>379,210</b>	<b>405,429</b>

GROSS UTILITY PLANT

Plant Accounts (101-107) Inclusive	Water	Wastewater	Total
Utility Plant in Service (101)	577,251	411,633	988,884
ADDITIONS	12,120	7,214	19,334
			-
			-
			-
			-
Total Utility Plant	589,371	418,847	1,008,218

ACCUMULATED DEPRECIATION AND AMORTIZATION OF UTILITY PLANT

Account (108)	Water	Wastewater	Total
Balance first of Year	352,137	300,619	652,756
Add Credits During Year	24,702	15,139	39,841
Accruals charged to Depreciation Account			-
Total Credits	376,839	315,758	692,597
Deduct Debits During Year			-
			-
Balance End of year	376,839	315,758	692,597

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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CAPITAL STOCK (201-204)

	Common Stock	Preferred Stock
Par or stated value per share	1.00	
Shares authorized	200	
Shares issued and outstanding	200	
Total par value of stock issued	200	
Dividends declared per share for year	-	

RETAINED EARNINGS (215)

	Appropriated	Un-Appropriated
Balance first of year		(353,494)
Changes during the year (specify) per Auditor Report		
Less Current Year operating profit		(4,734)
Accounting transfer to Capital Acct		
Balance End of year		(358,228)

LONG TERM DEBT (224)

Description of Obligation (Including Nominal Date of Issue and Date of Maturity)	Rate	Interest Pymts	Principal per Balance Sheet Date
First Federal Bank (Credit Line)	6%		24,800
CEP Grant			15,000
Total			39,800

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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**TAX EXPENSE**

	Water (b)	Wastewater ©	Other (d)	Total (e)
Income Taxes:				-
Federal income tax _____				
State income Tax _____				
Taxes Other Than Income:				-
County ad valorem tax _____	1,200	1,572		2,772
Payroll Tax Expense _____				-
Other tax _____				-
Regulatory assessment fee _____	4,506	5,165		9,671
Other (Specify) _____				
_____				
_____				
<b>Total Tax Expense</b> _____	<b>5,706</b>	<b>6,737</b>		<b>12,443</b>

**PAYMENTS FOR SERVICES RENDERED BY OTHER THAN EMPLOYEES**

Report all information concerning rate, management, construction, advertising, labor relations, public relations, or other similar professional services rendered the respondent for which aggregate payments during the year to any corporation, partnership, individual, or organization of any kind whatever, amounting to \$500 or more.

Name of Recipient	Water Amount	Wastewater Amount	Description of Service
MIRA International, Inc.	24,000	24,000	Management & Maintenance
Steve GS	3220	7,220	Plant operation
CVPA	1006	1,006	Accounting Fees

CONTRIBUTIONS IN AID OF CONSTRUCTION (271)

(a)	Water (b)	Wastewater ©	Total (d)
1) Balance first of year	132,796	262,882	395,678
2) Add Credits during year			-
3) Total	132,796	262,882	395,678
4) Deduct charges during year			
5) Balance end of year	132,796	262,882	395,678
6) Less Accumulated Amortization	(115,407)	(244,230)	(359,637)
7) Net CIAC	17,389	18,652	36,041

ACCUMULATED AMORTIZATION OF CIAC

	Water	Wastewater	Total
Balance First of Year	(109,839)	(235,230)	(345,069)
Add Credits During Year	(5,568)	(9,000)	(14,568)
Deduct Debits During Year			
Balance End of Year (must agree with line #6 above)	(115,407)	(244,230)	(359,637)

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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Schedule "A"

Schedule of Cost of Capital used for AFUDC Calculation

**N/A**



UTILITY NAME CFAT H2O, INC.

YEAR OF REPORT December 31, 2020
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Schedule "B"

Schedule of Capital Structure Adjustments

N/A

C.F.A.T.H<sub>2</sub>O, INC.

# WATER OPERATING SECTION

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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WATER UTILITY PLANT ACCOUNTS

ACCT NO. (a)	ACCOUNT DESCRIPTION (b)	PREVIOUS YEAR ©	ADDITIONS (d)	DELETIONS (e)	CURRENT YEAR (f)
300	Fixed Assets	4,548	2,814		7,362
302	FRANCHISES	-			-
303	LAND AND LAND RIGHTS	19,500			19,500
304	STRUCTURE AND IMPROVEMENTS	3,154			3,154
307	WELL AND SPRINGS	38,888			38,888
310	POWER GENERATION EQUIPMENT	22,587			22,587
311	PUMPING EQUIPMENT	116,510	6,855		123,365
320	WATER TREATMENT EQUIPMENT	13,314			13,314
330	DIST RESERVOIR & STANDPIPES	201,106			201,106
331	TRANSMISSION & DISTRIBUTION MAINS	83,968			83,968
333	SERVICES	15,635			15,635
334	METER AND METER INSTALLATIONS	55,813	2,451		58,264
339	OTHER PLANT AND MISC EQUIPMENT	2,021			2,021
343	TOOL SHOP AND GARAGE EQUIPMENT	207			207
	TOTALS	577,251	12,120	-	589,371

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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ANALYSIS OF ACCUMULATED DEPRECIATION BY PRIMARY ACCOUNT - WATER

ACCT NO.	ACCOUNT DESCRIPTION	AVERAGE SERVICE LIFE	DEPR RATE APPLIED	ACCUM BALANCE PREV YR	DEBITS	CREDITS	ACCUM DEPR BALANCE
(a)	(b)	©	(d)	(e)	(f)	(g)	(h)
301	ORGANIZATIONAL	5	20.0000				-
302	FRANCHISES	29	3.4483				-
304	STRUCTURES & IMPROV	27	3.7037	990		117	1,107
307	WELL PUMPS (15HP)	27	3.7037	25,167		1,440	26,607
310	POWER GENERATION EQ	15	6.6667	21,160		1,506	22,666
311	PUMPING EQUIPMENT	15	6.6667	100,798		8,224	109,022
320	WATER TREATMENT EQ	11	9.0909	12,678		1,210	13,888
330	DISTRIBUTION RESERVOIR	30	3.3333	97,789		6,703	104,492
331	TRANS & DIST MAINS	40	2.5000	47,333		2,099	49,432
333	SERVICES	35	2.8571	13,382			13,382
334	METERS & METER INSTAL	17	5.8824	32,632		3,427	36,059
335	HYDRANTS	40	2.5000	-			-
339	OTHER PLANT & MISC EQ	20	5.0000				-
340	OFFICE FURNITURE & EQ	6	16.6667	-			-
341	TRANSPORTATION EQ	5	20.0000	-		(26)	(26)
343	TOOL,SHOP & GARAGE	15	6.6667	207			207
	TOTALS			352,136	-	24,702	376,838

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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WATER OPERATION AND MAINTENANCE EXPENSE

ACCT NO.	ACCOUNT NAME	AMOUNT
603	SALARIES & WAGES OFFICERS	27,000
615	PURCHASED POWER	3,543
616	FUEL FOR POWER PRODUCTION	109
618	CHEMICALS	500
631	CONTRACTUAL EXPENSE (ENGINEERING, ACCOUNTING)	
630	CONTRACTUAL EXPENSE BILLING	24,000
635	CONTRACTUAL SERVICES - OPERATIONS	3,385
635	CONTRACTUAL SERVICES - TESTING	175
655	OFFICE SUPPLIES	1,027
670	BAD DEBT EXPENSE	426
675	BANK SERVICE CHARGES	3,009
675	MAINTENANCE EXPENSE	2,049
675	MISCELLANEOUS EXPENSE	2,117
675	Dep Exp	1,000
	TOTAL OPERATION AND MAINTENANCE EXPENSE	68,340

WATER CUSTOMERS

DESCRIPTION (a)	TYPE OF METER (b)	EQUIVALENT FACTOR ©	NUM OF ACTIVE CUSTOMERS START OF YR (d)	CUSTOMERS END OF YR (e)	TOT NUMER OF EQUIVALENT (c x e)
5/8"	D	1.0	217	232	232
3/4"	D	1.5		3	
1"	D	2.5	4	4	10
2"	D	8.0			
		TOTAL	221	239	242

PUMPING AND PURCHASED WATER STATISTICS

(a)	Water Purchased for Resale (omit 000) (b)	Finished water from Wells (omit 000) (c)	Accounted for loss thru line flushing etc. (omit 000) (d)	Total Water Pumped and Purchased (omit 000) (e)	Water sold to Customers (omit 000) (f)
January	None	818	-	818	818
February	"	748	-	748	748
March	"	798	-	798	798
April	"	836	-	836	836
May	"	821	-	821	821
June	"	901	-	901	901
July	"	949	-	949	949
August	"	749	-	749	749
September	"	831	-	831	831
October	"	816	-	816	816
November	"	897	-	897	897
December	"	775	-	775	775
Total for Year	None	9,939	-	9,939	9,939

MAINS (Feet)

Kind of Pipe	Diameter of Pipe	First of Year	Added	Removed or Abandoned	End of Year
PVC - 16 years	6"	4270	0	0	4270
PVC - 16 years	4"	4210	0	0	4210
PVC - 16 years	8"	13360	0	0	13360

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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WELLS AND WELL PUMPS

(a)	(b)	©	(d)
Year Constructed	1989	2006	
Type fo well construction and casing.	Steel Grouted	Steel Grouted	
Depth of Wells	160'	160'	
Diameters of Wells	8"	8"	
Pump GPM	250	250	
Motor HP	10	10	
Yields of Wells in GPD	15,000	15,000	
Auxiliary Power	Diesel Gen	Diesel Gen	

RESERVOIRS

(a)	(b)	©	
Description	Steel	Steel	
Capacity of Tank	20,000	200,000	
Ground or Elevated	Ground	Ground	

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT  
December 31, 2020

SOURCE OF SUPPLY

List for each source of supply:	
Gals. per day of source	100,000
Type of Source	Well

WATER TREATMENT FACILITIES

List for each water treatment facility:	
Type	Liquid Chlorinated
Make	VT 100
Gals per day	100,000
Method of Measurement	Flow meter



OTHER WATER SYSTEMS INFORMATION

Furnish information below for each system not physically connected with another facility.

1. Present ERC's \* now being served **227**
2. Maximum ERC's \* that system can efficiently serve **250**
3. Present system connection capacity (in ERC's) using existing lines **250**
4. Future connection capacity (in ERC's) upon service area buildout **350**
5. Estimated annual increase in ERC's **2**
6. List fire fighting facilities and capacities **200,000 Gal Ground Storage Tank & Triplex Pumps**
7. Attach a description of the fire fighting facilities = **one (1) Hydrant at a gas station.**
8. What is the current need for system upgrading and/or expansion? **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, submit the following:
  - a. Attach a description of the Plant upgrade necessary to meet DEP rules.
  - b. Have these plans been approved by DEP
  - c. When will construction begin
  - d. Attach plans for funding the required upgrades
  - e. Is this system under a Consent Order with DEP **NO**
11. Department of Environmental Protection ID #. **3424620**
12. Water Management District ID # **2-83-0220AN**
  - a. Is the system in compliance with the requirements of the CUP? **YES**
  - b. If not, what are the utility's plans to gain compliance

\* ERC = (Total Gallons Sold / 365 days / 350 Gallons per Day  
 \*\* TOTAL PLANT CAPACITY / 350

C.F.A.T.H<sub>2</sub>O, INC.

SEWER  
OPERATING  
SECTION

UTILITY NAME **CFAT H2O, INC.**

<p>YEAR OF REPORT December 31, 2020</p>
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SEWER UTILITY PLANT ACCOUNTS

ACCT NO. (a)	ACCOUNT DESCRIPTION (b)	PREVIOUS YEAR ©	ADDITIONS (d)	DELETIONS (e)	CURRENT YEAR (f)
350	FIXED ASSETS	2,500			2,500
352	FRANCHISES	2,062			2,062
353	LAND & LAND RIGHTS	39,000			39,000
354	STRUCTURES AND IMPROVEMENTS	36,667	802		37,469
360	FORCE MAIN COLL LINES	81,058			81,058
361	GRAVITY FEED COLL LINES	45,657			45,657
362	SPECIAL COLL STRUCTURES	17,856			17,856
363	SERVICES TO CUSTOMERS	8,500			8,500
364	FLOW MEASURING DEVICES	90			90
365	FLOW MEASURING INSTALLATIONS	5,610			5,610
370	RECEIVING WELL - MANHOLES, LIFT STATIONS	150,086	6,412		156,498
380	TREATMENT AND DISPOSAL EQ	22,547			22,547
389	OTHER PLANT & MISC EQUIP	-			-
390	OFFICE FURNITURE & EQUIP	-			-
393	TOOLS, SHOP & GARAGE EQUIP	-			-
	TOTALS	411,633	7,214		418,847

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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ANALYSIS OF ACCUMULATED DEPRECIATION BY PRIMARY ACCOUNT -SEWER

ACCT NO.	ACCOUNT DESCRIPTION	AVERAGE SERVICE LIFE	DEPR RATE APPLIED	ACCUM BALANCE PREV YR	DEBITS	CREDITS	ACCUM DEPR BALANCE
(a)	(b)	©	(d)	(e)	(f)	(g)	(h)
351	ORGANIZATIONAL	5	20.0000	2,500			2,500
352	FRANCHISES	3	33.3333	2,062			2,062
354	STRUCTURES AND IMPROV	27	3.7037	9,821		1,388	11,209
360	FORCE MAIN COLL LINES	27	3.7037	61,479		3,002	64,481
361	GRAVITY FEED COLL LINES	40	2.5000	36,301		1,141	37,442
362	SPECIAL COLL STRUCTURES	35	2.8571	14,943		510	15,453
363	SERVICES TO CUSTOMERS	35	2.8571	7,996		243	8,239
364	FLOW MEASURING DEVICES	5	20.0000	90			90
365	FLOW MEASURING INSTAL	35	2.8571	5,247		160	5,407
370	RECEIVING WELL - MANHOLES LIFT STATIONS	18	5.5556	137,632		8,694	146,326
380	TREATMENT AND DISPOSAL EQ	15	6.6667	22,548			22,548
389	OTHER PLANT & MISC EQUIP	15	6.6667				
390	OFFICE FURNITURE & EQUIP	6	16.6667				
393	TOOLS, SHOP & GARAGE EQUIP	15	6.6667				
	TOTALS			300,619	0	15,139	315,758

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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SEWER OPERATION AND MAINTENANCE EXPENSE

ACCT NO.	ACCOUNT NAME	AMOUNT
703	SALARIES & WAGES OFFICERS	27,000
711	SLUDGE REMOVAL EXPENSE	14,005
715	PURCHASED POWER	13,445
718	CHEMICALS	4,194
731	PROFESSIONAL FEES (ENGINEERING - ACCOUNTING)	1,885
730	CONTRACTUAL SERVICES SEWER	24,000
735	CONTRACTUAL EXPENSE - PROFESSIONAL	8,094
735	TESTING - SEWER	250
775	BANK SERVICE CHARGES	3,009
775	OFFICE SUPPLIES	1,027
775	DEP Permit Fees	150
775	Misc EXPENSE	12,326
	TOTAL OPERATION AND MAINTENANCE EXPENCE	109,385

WASTEWATER CUSTOMERS

DESCRIPTION (a)	TYPE OF METER (b)	EQUIVALENT FACTOR ©	NUM OF ACTIVE CUSTOMERS START OF YR (d)	CUSTOMERS END OF YR (e)	TOT NUMER OF EQUIVALENT (c x e)
5/8"	D	1.0	238	244	244
3/4"	D	1.5			
1"	D	2.5	3	4	10
2"	D	8.0			
		TOTAL	241	248	254

PUMPING EQUIPMENT

Lift Station Number	1	2	3&4
Name or Type and Nameplate data of pump	STA-RITE	STA-RITE	STA-RITE
Year Installed	1990	1990	2000
Rated Capacity	100 GPM	100 GPM	80 GPM
Size	4"	4"	4"
Power	Electric	Electric	Electric
Nameplate Data of Motor	2.8 HP 12.6 AMP	2.8 HP 12.6 AMP	5 HP

SERVICE CONNECTIONS

Size (inches)	4"
Type	PVC
Average Length	30'
Number of Active Service Connections	
Beginning of Year	120
Added during Year	0
Retired during Year	
End of Year	120
Age	16 years

COLLECTING AND FORCE MAINS

	Collecting Mains	Collecting Mains	Force Mains
Size (inches)	8"	6"	4"
Type of Main	PVC	PVC	PVC
Length of Main (nearest foot)			
Beginning of Year	9287	803	3912
Added during Year	0	0	7600
Retired during Year	0	0	0
End of Year	9287	803	11512
Age	16 years	16 years	16 years

MANHOLES

Size (inches)	48"	16 years
Number of Manholes	Concrete	
Beginning of Year	22	
Added during Year	0	
Retired during Year	0	
End of Year	22	

TREATMENT PLANT

Manufacturer	Marlof
Type	Concrete
Total Capacity - Gal Per Day	125,000
Average Daily flow	23,563
Total Gallons of Sewage treated	8,600,368

MASTER LIFT STATION PUMPS

Manufacturer	
Capacity	
Motor: Mfr	
Horsepower	7.5 HP
Power (Electric or Mechanical)	Electric

PUMPING WASTEWATER STATISTICS

Months	Gallons of Treated Wastewater	Effluent Reuse Gallons to Customers	Effluent Gallons
January	711,552	0	711,552
February	663,328	0	663,328
March	690,671		690,671
April	702,952	0	702,952
May	746,765	0	746,765
June	751,758	0	751,758
July	729,401	0	729,401
August	774,585	0	774,585
September	764,291	0	764,291
October	693,126	0	693,126
November	716,450	0	716,450
December	655,489	0	655,489
Total for Year	8,600,368	0	8,600,368

UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT December 31, 2020
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OTHER WASTEWATER SYSTEM INFORMATION

1. Present ERC's \* being served **165**
2. Maximum ERC's \*\* that system can efficiently serve **410**
3. Present system connection capacity (in ERC'S) using existing lines. **250**
4. Future connection capacity (in ERC'S) upon service area buildout. **125**
5. Estimates annual increase in ERC'S \* **2**
6. State any plans and estimated completion date for any enlargements of this system. No plans at this time
7. In what percent of your certificated area have service connections been installed? **68%**
8. If present systems do not meet the requirements of DEP rule 62-4, Florida Administrative Code, submit the following
  - a. Evaluation of the present plant or plants in regard to meeting the DEP'S rules.
  - b. Plans for funding and construction of the required upgrading.
  - c. Have these plans been coordinated with the DEP?
  - d. Do they concur?
  - e. When will construction begin?
9. Do you discharge effluent to surface waters? **No\_\_**
10. Department of Environmental Protection I.D. #**3042P01551**  
and Water Management District I.D. # **2-083-0220ANF**

\* ERC = (Total Gallons Treated / 365 days / 280 Gallons per Day

Note: Total Gallons Treated includes both sewage treated and purchased sewage treatment.

\*\* Total plant capacity/115,000 gpd



UTILITY NAME **CFAT H2O, INC.**

YEAR OF REPORT  
December 31, 2020

CERTIFICATION OF ANNUAL REPORT

I HEREBY CERTIFY, to the best of my knowledge and belief:

YES NO

(X) ( ) 1. The utility is in substantial compliance with the Uniform System of Accounts prescribed by the Florida Public Service Commission.

YES NO

(X) ( ) 2. The utility is in substantial compliance with all applicable rules and orders of the Florida Public Service Commission.

YES NO

(X) ( ) 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 financial statement of the utility.

YES NO

(X) ( ) 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 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. *Charles de Menzes*

(X) (X) (X) (X) (signature of chief executive officer of the utility)

1. 2. 3. 4. \_\_\_\_\_

( ) ( ) ( ) ( ) (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.

**ATTACHMENT D**  
**Local Vendor Recommendations**

- a. Recommendations for local vendors
  - i. O&M Companies
    - US Water Service
    - Utility Technicians
  - ii. Labs or Testing Companies
    - Aqua Pure (352)-355-2383
  - iii. General Contractors
    - Oxford Pipeline
  - iv. Well Drillers
    - Unknown
  - v. Electricians
    - Interstate Electric

# ATTACHMENT E

Site Photographs

