FLORIDA DEPARTMENT OF Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

April 9, 2020

In the Matter of an
Application for Permit by:

Mr. Dave Townsend
Vice President Environmental
Pilgrim's Pride Live Oak Processing Plant
19740 U.S. Highway 90 West
Live Oak, Florida 32060
Telephone: (386) 208-0218
Email: dave.townsend@pilgrims.com

Permit No.: FL0001465 (Major)
File Number FL0001465 – 008 – IW7A
Pilgrim's Pride Live Oak Processing Plant
Suwannee County

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FL0001465 to operate the Pilgrim's Pride Live Oak Processing Plant, which is an existing 1.50 MGD monthly average daily flow industrial wastewater treatment facility. The final treated effluent which includes process wastewater and non-process wastewater discharges to Suwannee River (Class III fresh Water, WBID 3422B). The permittee is also authorized to land apply 0.040 MGD of sludge to a sprayfield system. The facility is located at latitude 30° 22' 18.99" N, longitude 83° 9' 29.85" W, on 19740 US Highway 90, Live Oak, Florida 32060-8753 in Suwannee County. This permit is issued under Chapter 403, Florida Statutes (F.S.).

Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any.

NOTICE OF RIGHTS

Judicial Review

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by the filing of a notice of appeal under Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days after this order is filed with the Clerk of the Department.

EXECUTION AND CLERKING
Executed in Jacksonville, Florida.
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Thomas G. Kallemeyn
Permitting Program Administrator

Attachments: (1) Permit; (2) Fact Sheet; (3) DMR Form.

c: Steven Woodruff, P.E., swoodruff@wheeinc.com
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John Davis, P.G., FDEP
D. Anh Vo, P.E., FDEP

FILING AND ACKNOWLEDGEMENT & CERTIFICATE OF SERVICE

Filed on this date pursuant to § 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged. The undersigned hereby certifies that this Notice of Permit Issuance and all copies were sent before the close of business on April 9, 2020 to the listed persons.

Clerk

April 9, 2020
Date

FLORIDA DEPARTMENT OF Environmental Protection

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STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:
Pilgrim's Pride Corporation
1770 Promontory Circle
Greeley, Colorado 80634

PERMIT NUMBER: FL0001465 (Major)
FILE NUMBER: FL0001465 – IW7A
ISSUANCE DATE: April 07, 2020 (008/NR)
EFFECTIVE DATE: May 08, 2020
EXPIRATION DATE: May 07, 2025

RESPONSIBLE OFFICIAL:
Mr. Dave Townsend
Vice President, Environmental
Pilgrim's Pride Live Oak Processing Plant
19740 U.S. Highway 90 West
Live Oak, Florida 32060
Telephone: (386) 208-0218
Email: dave.townsend@pilgrims.com

FACILITY:

Pilgrim's Pride Live Oak Processing Plant
19740 US Highway 90 West
Live Oak, FL 32060
Suwannee County
Latitude: 30° 22' 18.99" N Longitude: 83° 09' 29.85" W

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

FACILITY DESCRIPTION:

This facility processes live poultry into fresh and frozen chicken meat products and operates a broiler hatchery to produce chicks for distribution to contract growers.

WASTEWATER TREATMENT:

The facility produces a monthly average daily flow of 1.50 million gallons per day (MGD). Process wastewater is generated from poultry processing, the hatchery, plant sanitation activities; non-process wastewater is generated from boiler/condenser blowdown operations, water treatment plant filtrate, treated sanitary wastewater, treated vehicle and equipment wash water, and collected stormwater from industrial activity at the site.
Process wastewater goes into the 0.075-MG dissolved air flotation (DAF) separation unit and then into the 15-million gallon (MG) anaerobic basin. Non-process wastewater bypasses the DAF and joins the process wastewater in the anaerobic basin. The commingled waste stream then flows from the anaerobic basin into the 0.50-MG anoxic basin, then into the 1.4-MG aeration basin, and then is split into the north and south 0.10 MG clarifiers. Activated sludge is returned to the anoxic basin and waste sludge is sent to the 1.2-MG aerobic sludge

digester. Effluent from the secondary clarifiers may flow into either the 7.5-MG lined, facultative polishing pond or directly to the pump station feeding the denitrification filters (or both) after which the effluent stream receives pH adjustment and then flows to the chlorine contact chamber for disinfection. Following dechlorination, the treated water is discharged to the Suwanee River (Class III Fresh Water), an Outstanding Florida Water (OFW). Waste sludge treated in the aerobic sludge digester is land applied by spray irrigation to an onsite 44-acre land application system.

EFFLUENT REUSE OR DISPOSAL:

Surface Water Discharge D-001: An existing 1.50 MGD Monthly Average Daily Flow (MADF) permitted discharge to Suwannee River, (Class III Fresh Waters, WBID# 3422B), from Outfall D-001, which is an 18" diameter steel pipe approximately 20-feet from shore discharging at an elevation of approximately 39 feet (MSL). The point of discharge (POD) is located approximately at latitude 30° 21' 56.1" N, longitude 83° 11' 29.64" W.

Land Application R-001: An existing 0.040 MGD Maximum Daily Flow permitted capacity land application system consisting of 44-acre Liquid Sludge Sprayfield Application Site located approximately at latitude 30° 21' 54.23" N, longitude 83° 09' 46.21" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions set forth in Part I through Part X on pages 1 through 30 of this permit.

I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

1. During the period beginning on the effective date and lasting through the expiration date of this permit, the permittee is authorized to discharge treated process and non-process wastewater (sanitary wastewater, floor drain wastewater, stormwater, non-process wastewater, once-through non-contact cooling water, and boiler blowdown) from Outfall D-001 to the Suwannee River (Class III fresh Water, WBID 3422B). Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.B.3.

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Flow	MGD	Max	1.70	Daily Maximum	Continuous	Recording Flow Meter with Totalizer	FLW-1	
		Max	1.50	Monthly Average				
BOD, Carbonaceous 5 day, 20C	mg/L	Max	15.0	Annual Average	Weekly	24-hr FPC	EFF-1	
		Max	18.0	Monthly Average				
		Max	24.3	Single Sample				
BOD, Carbonaceous 5 day, 20C	Lbs/day	Max	156	Monthly Average	Weekly	Calculated	CAL-1	See I.A.4
		Max	211	Single Sample				
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	Weekly	24-hr FPC	EFF-1	
		Max	25.5	Monthly Average				
		Max	46.2	Single Sample				
Solids, Total Suspended	Lbs/day	Max	221	Monthly Average	Weekly	Calculated	CAL-1	See I.A.4
		Max	401	Single Sample				

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average	Weekly	24-hr FPC	EFF-1	
		Max	Report	Single Sample				
Nitrogen, Kjeldahl, Total (as N)	Lbs/day	Max	87	Monthly Average	Weekly	Calculated	CAL-1	See I.A.4
		Max	130	Single Sample				
pH	s.u.	Min	6.0	Single Sample	Weekly	Meter	EFF-1	See I.A.5
		Max	8.5	Single				
Temperature (C), Water	Deg C	Max	Report	Single Sample	Weekly	Meter	EFF-1	See I.A.5
Nitrogen, Ammonia, Total (as N) ***(Effluent)***	mg/L	Max	Report	Single Sample	Weekly	Grab	EFF-1	See I.A.5
		Max	Report	Monthly Average				
Nitrogen, Ammonia, Total (as N) ***(Limits)***	mg/L	Max	Report	Single Sample	Weekly	Calculated	CAL-1	See I.A.5
		Max	Report	Monthly Average				
Nitrogen, Ammonia, Total (as N) ***(Compliance = Effluent – Limit)***	mg/L	Max	Report	Single Sample	Weekly	Calculated	CAL-1	See I.A.5
		Max	Report	Monthly Average				
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	Weekly	Meter	EFF-1	See I.A.9
Nitrogen, Total	mg/L	Max	Report	Annual Average	Weekly	24-hr FPC	EFF-1	
		Max	Report	Monthly Average				
		Max	Report	Single Sample				

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Nitrogen, Total	Lbs/yr	Max	114,245	Annual Total	Monthly	Calculated	CAL-1	See I.A.6
	Lbs/mon	Max	Report	Monthly Total				
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Monthly Average	Weekly	Grab	EFF-1	
		Max	Report	Single Sample				
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	Weekly	24-hr FPC	EFF-1	
		Max	Report	Monthly Average				
		Max	Report	Single Sample				
Phosphorus, Total (as P)	lb/yr	Max	68,465	Annual Total	Monthly	Calculated	CAL-1	See I.A.6
	lb/mo	Max	Report	Monthly Total				
Oil and Grease	mg/L	Max	5.0	Single Sample	Weekly	Grab	EFF-1	See I.A.11
Chlorine, Total Residual	mg/L	Max	0.01	Single Sample	Weekly	Grab	EFF-1	See I.A.11
Bacteriological Quality – Fecal Coliform Bacteria	#/100mL	Max	200	Single Sample	Weekly	Grab	EFF-1	See I.A.7
Bacteriological Quality – Escherichia coli Bacteria (E.coli)	#/100mL	Max	126	Monthly Geomean Average	Weekly	Grab	EFF-1	See I.A.7
	#/100mL	Max	410	90th Percentile				
Specific Conductance	µmhos/ cm	Max	1275	Single Sample	Weekly	Meter	EFF-1	

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Ceriodaphnia dubia*)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-1	See I.A.10
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Pimephales promelas*)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-1	See I.A.10
Mercury, Total Recoverable	µg/L	Max	0.012	Single Sample	Bi-annually; once every 2 years	Grab	EFF-1	See I.A.8
BOD, Carbonaceous 5 day, 20C	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	INF-1	
Solids, Total Suspended	mg/L	Max	Report	Single Sample	Monthly	24-hr FPC	INF-1	
Temperature (C), Water	Deg C	Max	Report	Single Sample	Monthly	Meter	SWU-2 SWD-2	See I.A.12
Oxygen, Dissolved (DO)	mg/L	Min	Report	Single Sample	Monthly	Meter	SWU-2 SWD-2	See I.A.12
Oxygen, Percent Saturation	Percent	Min	Report	Single Sample	Monthly	Meter or Calculated	SWU-2 SWD-2	See I.A.12
Specific Conductance	µmhos/ cm	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
pH	s.u.	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12

			Effluent Limitations		Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**	**Notes**
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
Nitrogen, Total	mg/L	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
Chlorophyll a	mg/L	Max	Report	Single Sample	Monthly	Grab	SWU-2 SWD-2	See I.A.12
Nitrogen, Total	mg/L	Max	Report	Annual Geometric Mean	Annually	Grab/ Calculated	SWU-2 SWD-2	See I.A.12
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Geometric Mean	Annually	Grab/ Calculated	SWU-2 SWD-2	See I.A.12
Stream Condition Index	Yes = 1 No = 0	-	Report	Average Score	Bi-annually	Grab	SWU-2 SWD-2	See I.A.13
Biological Data (flora or fauna)	Yes = 1 No = 0	-	Report	Single Sample	Bi-annually	Grab	SWU-2 SWD-2	See I.A.13
Biological Integrity	Yes = 1 No = 0	-	Report	Single Sample	One every 5 years	Grab	SWA-1 (East) SWA-1 (West) SWB-1 (East) SWB-1 (West)	See I.A.13 & I.A.14

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

Monitoring Site	Description of Monitoring Site
EFF-1	Effluent, after final treatment prior to discharge to Suwannee River
INF-1	Influent, prior to chemical, physical or biological treatment, or dilution
FLW-1	Flowmeter, V-notch weir at discharge of chlorine contact chamber
CAL-1	Calculated value
SWU-2	Ambient stream sampling point, approximate 550 feet upstream of the POD
SWD-2	Ambient stream sampling point, approximate 550 feet downstream of the POD
SWA-1 (East)	Approximately 0.1 miles upstream of the discharge at LAT 30° 22' 1.56" N, LONG 83° 11' 33.36" W
SWA-1 (West)	Approximately 0.1 miles upstream of the discharge at LAT 30° 22' 0.948" N, LONG 83° 11' 32.136" W
SWB-1 (East)	Approximately 0.2 miles downstream of the discharge at LAT 30° 21' 45.54" N, LONG 83° 11' 31.488" W
SWB-1 (West)	Approximately 0.2 miles downstream of the discharge at LAT 30° 21' 45" N, LONG 83° 11' 33.144" W

3. The discharge shall not contain components that, alone or in combination with other substances or in combination with other components of the discharge:
   a. Settle to form putrescent deposits or otherwise create a nuisance; or
   b. Float as debris, scum, oil, or other matter in such amounts as to form nuisances; or
   c. Produce color, odor, taste, turbidity, or other conditions in such degree as to create a nuisance; or
   d. Are acutely toxic; or
   e. Are present in concentrations which are carcinogenic, mutagenic, or teratogenic to human beings or to significant, locally occurring, wildlife or aquatic species, unless specific standards are established for such components in subsection 62-302.500(2) or Rule 62-302.530, F.A.C.; or
   f. Pose a serious danger to the public health, safety, or welfare.

   [62-302.500(1)(a)]

4. Effluent discharged from the Outfall D-001 to Suwannee River (Class III, Fresh Water, WBID 3422B) shall comply with the maximum daily load and monthly average daily load limits for 5-Day Carbonaceous Biochemical Oxygen Demand, 20ºC (CBOD5), Total Suspended Solids (TSS), and Total Kjeldahl Nitrogen (TKN). The monthly average and daily maximum mass loads of BOD5, TSS, or TKN shall be calculated as follows:

   a. Maximum Daily Load (DL) (Lbs/day): Maximum amount of CBOD5, TSS, or TKN loading into the River in a day when the discharge is occurred.

   $$\textbf{\textit{DL = (Daily Flow}}(\text{MGD})\textbf{\textit{) * [CBOD5 (}}\tfrac{\text{mg}}{\text{L}}\textbf{\textit{) or TSS (}}\tfrac{\text{mg}}{\text{L}}\textbf{\textit{) or TKN (}}\tfrac{\text{mg}}{\text{L}}\textbf{\textit{)] * 8.34}}\ (\tfrac{\text{L}}{\text{MG}}\tfrac{\text{Lbs}}{\text{mg}})$$

Where:

DL	=	Maximum daily loads of BOD5 or TSS or TKN in a day within a given month, (Lbs/day)
Daily Flow	=	Daily flow/discharge from the Outfall D-001, (MGD)
CBOD5	=	Maximum Daily concentration of CBOD5 monitored at EEF-1, (mg/L)
TSS	=	Maximum Daily concentration of TSS monitored at EEF-1, (mg/L)
TKN	=	Maximum Daily concentration of TKN monitored at EEF-1, (mg/L)

b. Monthly Average Daily Load (MADL) (Lbs/day): 30-day average daily amount of CBOD5, TSS, or TKN loading into the River in a given month.

$$\mathbf{MADF} = \frac{\sum \boldsymbol{DL_i} \left(\frac{\boldsymbol{Lbs}}{\boldsymbol{day}}\right)}{\sum \boldsymbol{day_i}}$$

Where:

MADF	=	Monthly average daily loads of CBOD5 or TSS or TKN in the month, *(Lbs/day)*
DL_i	=	Max. daily loads of CBOD5, TSS or TKN in a day within the given month, *(Lbs/day)*
day_i	=	Day of the discharge is occurred.

5. Effluent *(i.e. the final treated wastewater)* shall be monitored for pH and temperature at the same time and location as total ammonia nitrogen (TAN). The monthly average TAN value shall not exceed the average of the values calculated from the below equation, with no single value exceeding 2.5 times the value from the equation. To determine compliance with the monthly average and single sample limits for TAN is following calculations steps below:

a. Calculate TAN Criterion Value for a collected sample using the below equation:

$$\boldsymbol{TAN\ Criterion} = \mathbf{0.8876}\left(\frac{\mathbf{0.0278}}{\mathbf{1+10^{7.688-pH}}} + \frac{\mathbf{1.1994}}{\mathbf{1+10^{pH-7.688}}}\right) \mathbf{x}\ (\mathbf{2.126}\ \boldsymbol{x}\ \mathbf{10^{0.028(20-T)}})$$

Where:

- T and pH are the paired temperature (in degrees Celsius) and pH associated with the effluent TAN sample, i.e., measured at the same time and location as the effluent TAN sample is collected.
- For purposes of TAN criterion calculations, pH is subject to the range of 6.5 to 9.0. In the TAN criterion equation, the pH shall be set to 6.5 if the measured pH is less than 6.5 and set to 9.0 if the measured pH is greater than 9.0.
- The value of T shall be set to 7 if the measured temperature is less than 7°C.

b. Calculate TAN Limits:

- Monthly Average TAN Limit = Average TAN Criterion Values of the Month = $\frac{\sum TAN\ Criterion\ Value}{\sum \#\ of\ values}$
- Single Sample TAN limit = 2.5 x Calculated TAN Criterion Value

c. Calculate TAN Compliances:

- Monthly Average TAN Compliance = Mon Avg TAN Effluent – Mon Avg TAN Limit ≤ 0.0
- Single Sample TAN Compliance = Single Sample TAN Effluent– Single Sample TAN Limit ≤ 0.0

[62-302.530(3)]

6. Effluent discharges from the Outfall D-001 to Suwannee River (WBID# 3422B) shall comply with the total annual mass load limitations for total nitrogen as N (TN) and total phosphorus as P (TP). The total annual mass load limits for TN and TP are 114,245 lbs/year (51,929.6 kg/year) and 68,465 lbs/year (31,120.5 kg/year), respectively.

   a. Monthly Mass Load: The monthly mass loading shall be calculated as follows:

   $$\textit{ML (Lbs/Month)} = \textit{(Flow}\left(\frac{\text{MG}}{\text{Mon}}\right)\textit{) x (TN }\left(\frac{\text{mg}}{\text{L}}\right)\textit{ or TP }\left(\frac{\text{mg}}{\text{L}}\right)\textit{)x 8.34 }\left(\frac{\text{L}}{\text{MG}}\frac{\text{Lbs}}{\text{mg}}\right)$$

   Where:

ML	=	Monthly mass load of total nitrogen or total phosphorus (Lbs/month)
Flow	=	Monthly volume of effluent discharged from Outfalls D-001 (MG/month)
TN	=	Monthly Average Concentration of TN monitored at EFF-1 (mg/L)
TP	=	Monthly Average Concentration of TP monitored at EFF-1 (mg/L)

   b. Annual Mass Load:

   The annual mass load is computed using a rolling twelve (12) – month period. The calculation shall be the sum of the twelve most recent monthly mass loadings of total nitrogen or total phosphorus.

7. The effluent limitations for the monthly geometric means for bacteriological quality (fecal coliform or E. coli) are only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric means shall be calculated and reported on the Discharge Monitoring Report but shall not be used to determine compliance with the limitations for the monthly geometric means. All other bacteriological quality effluent limitations included in permit condition I.A.1. apply regardless of the number of values reported.

   To report the "90th percentile,"
   - Place the bacteria results in ascending order (from lowest to highest value) and assign each sample a number, 1 for the lowest value.
   - Multiply the total number of samples by 0.9 to determine the 90th percentile level.
   - Report the value of the sample that corresponds to the 90th percentile level (e.g., 10 samples x 0.9 = 9, report the value of the 9th sample). If the 90th percentile level is not a whole number, rounding or interpolation should be used to determine the 90th percentile. When rounding, round down to the nearest whole number if the decimal is 0.4 or lower and round up to the nearest whole number if the decimal is 0.5 or higher (e.g., 12 samples x 0.9 = 10.8, report the value of the 11th sample if rounding).

   [62-302.530(6)(a) and (6)(b)]

8. EPA Method 1631E shall be used to analyze for total recoverable mercury or other clean techniques approved for analysis such as Method 245.1 or Method 245.7 where the method detection limit is equal to or less than 25 ng/L. If the values detected are below the water quality standard the mercury is in compliance and does not trigger the need for a minimization plan. However, if testing results are above the water quality standard in the effluent, the permittee shall contact and discuss with the DEP NED wastewater section within 30 days of receipt of the results prior to submitting, preparing and implementing a mercury minimization plan addressing sources of mercury. *[62-304.900, 62-302 FAC, 62-4 FAC]*

9. Effluent dissolved oxygen concentrations and other pollutants (such as CBOD5 and TKN) shall be maintained such that the discharge does not degrade dissolved oxygen level of the receiving water body (Suwannee River) below the applicable water quality criterion, which is no more than 10 % of the daily average percent dissolved oxygen (DO) saturation values shall be below 34%. *[62-302.533(1)(c)]*

10. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.

    a. Effluent Limitation

        (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) for reproduction or growth shall not be less than 100% effluent. *[Rules 62-302.530(61) and 62-4.241(1)(b), F.A.C.]*

        (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. *[Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]*

    b. Monitoring Frequency

        (1) Routine toxicity tests shall be conducted once every three months (quarterly) until passing a minimum of eight consencutive sets of toxicity tests to qualify for reduced testing frequency; the first tests starting after the TIE study ended in January 2019.

        (2) The permittee shall notify the Department of qualifying for reduced toxicity testing frequency and may reduce to semi-annual toxicity testing (once every six months) and lasting for the duration of this permit, unless a test fails when the results do not meet the limits in 10.a.(1).

        (3) If a test within the sequence of the eight is deemed invalid based on the acceptance criteria in EPA-821-R-02-013, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for eight consecutive, valid, passing tests for the purpose of evaluating the reduction of monitoring frequency.

    c. Sampling Requirements

        (1) For each routine test or additional follow-up test conducted, a total of three flow proportional 24-hour composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.

        (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

        (3) Samples for routine and additional follow-up tests shall not be collected on the same day.

    d. Test Requirements

        (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

        (2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or the "test acceptability criteria" are not met, the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (Ceriodaphnia dubia) and Section 11.11 (Pimephales promelas). The repeat test shall begin within 21 days after the last day of the invalid test.

        (3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the

control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or the "test acceptability criteria" are not met, the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:

(a) Routine and Additional Follow-up Test Results: The calculated IC25 for reproduction or growth for each test species shall be entered on the DMR.

(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be sent to:

Florida Department of Environmental Protection
Northeast District Office

g. Test Failures

(1) A test fails when the test results do not meet the limits in 10.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the chronic toxicity limitation in 10.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 10.d.

(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.

(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.

(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.

(b) The Department shall review and approve the plan before initiation.

(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.

(d) Progress reports shall be submitted quarterly to the Department at the address above.

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 10.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 10.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 10.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute

toxicity limit in 10.(a)(2), the Department may revise this permit to require acute definitive whole effluent toxicity testing.

(5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

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

11. Florida water quality criteria and standards shall not be violated as a result of the discharge. *[62-620.320(9)]*

12. Ambient monitoring of the Suwannee River shall be conducted in the vicinity of the outfall (D-001) to maintain data on the impact of the discharge on the water quality of the River. Monitoring shall be conducted on a monthly basis. Metered parameters shall be taken at the surface, mid-depth, and bottom. Grab samples shall be taken at mid-depth at the specified locations. The results for each in-stream sampling shall be reported on the Discharge Monitoring Report (DMR) and submitted to the Department. The date and time of sample collection and test procedures shall also be submitted with the results of the analysis. SCI samples are conducted according to approved plan of study. *[62-620.320(6) BPJ]*

13. The permittee shall demonstrate attainment of the narrative nutrient criterion of 62-302.530(47)(b), F.A.C., through:

    a. The collection of biological information including monitoring for chlorophyll-a levels, algal mats or blooms, nuisance macrophyte growth, and changes in algal species composition, to show no imbalances in flora or fauna in the segment of the Suwannee River in the vicinity of the facility's discharge (D-001). In addition, the permittee shall monitor for either:

        (1) Stream Condition Index (SCI), with the average score of at least two temporally independent SCI assessments performed at representative locations is 40 or higher, with neither of the two most recent SCI scores less than 35, OR

        (2) Reference-based nutrient threshold values for total nitrogen (TN) and total phosphorus (TP) applicable to the North Central nutrient watershed region for the Suwannee River, with the annual geometric mean (AGM) concentrations of TN = 1.87 mg/L and TP = 0.30 mg/L not to be exceeded more than once in any three calendar year period. The annual geometric mean is determined based on all ambient samples collected during a calendar year. *[62-302.531(2)(c), F.A.C.], [62-302.531(6)]*

    b. The permittee may also establish a primary site-specific interpretation of the narrative nutrient criteria (NNC) for the segment of the waterbody impacted by the discharge. Site specific numeric interpretations of the narrative criteria include a Type III Site Specific Alternative Criteria (SSAC) for nutrients or nutrient response variables as established in Rule 62-302.800, F.A.C., or a Level II Water Quality Based Effluent Limitation (WQBEL) established under Rule 62-650.500, F.A.C., or a Reasonable Assurance Demonstration pursuant to Rule 62-303.600, F.A.C. *[62-302.531(2)(d), F.A.C.]*

14. Biological integrity monitoring shall be conducted at least one time in every 5-year permit cycle period (approximately 18 months prior to the expiration date of the permit) in order to determine compliance with the biological integrity requirement of Rule 62-302.530(10), F.A.C. Monitoring shall be conducted at the site locations indicated in the table below. If any triennial sampling event results in a violation of Rule 62-302.530(10), F.A.C., the required sampling frequency shall revert to an annual basis.

Biotic Integrity Site Locations	Description of Monitoring Site
SWA-1 (East)	Approximately 0.1 miles upstream of the discharge at LAT 30.36710, LONG 83.19206
SWA-1 (West)	Approximately 0.1 miles upstream of the discharge at LAT 30.36693, LONG 83.1926
SWB-1 (East)	Approximately 0.2 miles downstream of the discharge at LAT 30.36265, LONG 83.19208
SWB-1 (West)	Approximately 0.2 miles downstream of the discharge at LAT 30.36250, LONG 83.19254

B. Other Limitations and Monitoring and Reporting Requirements

1 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 (May 31, 2019)" is available at https://floridadep.gov/dear/quality-assurance/content/quality-assurance-resources. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:

a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;

b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are

listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and

c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

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

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

2 The permittee shall provide safe access points for obtaining representative influent and effluent samples which are required by this permit. *[62-620.320(6)]*

3 Monitoring requirements under this permit are effective on the first day of the second month following the effective date of the permit. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Unless specified otherwise in this permit, monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below. DMRs shall be submitted for each required monitoring period including periods of no discharge.

REPORT Type on DMR	Monitoring Period	Submit by
Monthly	first day of month - last day of month	28th day of following month
Once Every Two Months	January 1 - February 28/29 March 1 - April 30 May 1 - June 30 July 1 - August 31 September 1 - October 31 November 1 - December 31	March 28 May 28 July 28 September 28 November 28 January 28
Quarterly	January 1 - March 31 April 1 - June 30 July 1 - September 30 October 1 - December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 - June 30 July 1 - December 31	July 28 January 28
Annual	January 1 - December 31	January 28

The permittee shall use the electronic DMR system approved by the Department (EzDMR) and shall electronically submit the completed DMR forms using the DEP Business Portal at http://www.fldepportal.com/go/, unless the permittee has a waiver from the Department in accordance with 40 CFR 127.15. Reports shall be submitted to the Department by the twenty-eighth (28th) of the month following the month of operation.

[62-620.610(18)]

4 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 Northeast District Office at the address specified below:

Florida Department of Environmental Protection
Northeast District
8800 Baymeadows Way West
Suite 100
Jacksonville, Florida 32256-7577

Phone Number - (904)256-1700
FAX Number - (904)256-1588
(All FAX copies and e-mails shall be followed by original copies.)

[62-620.305]

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

6 If there is no discharge from the facility on a day when the facility would normally sample, the sample shall be collected on the day of the next discharge. *[62-620.320(6)]*

II. INDUSTRIAL SLUDGE MANAGEMENT REQUIREMENTS

1. The method of sludge use or disposal by this facility is land application.

2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its sludges. *[62-620.320(6)]*

3. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C. *[62-730]*

4. Sludge shall be limited and monitored by the permittee as specified below. Results shall be reported on the permittee's Discharge Monitoring Report in accordance with Condition I.B.3.

			Sludge Limitations		Monitoring Requirements		
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**
Daily Maximum Hydraulic Loading	MGD	Max	0.040	Daily Maximum	Continuous	Totalizer	SLF-1
Nitrogen, Sludge, Tot, Dry Wt. (as N)	percent	Max	Report	Single Sample	Quarterly	Composite	SLF-1
Phosphorus, Sludge, Tot, Dry Wt. (as P)	percent	Max	Report	Single Sample	Quarterly	Composite	SLF-1

			Sludge Limitations		Monitoring Requirements		
Parameter	**Units**	**Max/Min**	**Limit**	**Statistical Basis**	**Frequency of Analysis**	**Sample Type**	**Monitoring Site**
Potassium, Sludge, Tot, Dry Wt. (as K)	percent	Max	Report	Single Sample	Quarterly	Composite	SLF-1
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	Quarterly	Composite	SLF-1
pH	s.u.	Max Min	Report Report	Single Sample Single Sample	Quarterly	Composite	SLF-1
Nitrogen, Total	Lb/ac/yr	Max	450	Annual Average	Quarterly	Calculated	SLF-2
Cadmium,	Lb/ac	Max	4.4	Annual Total	Quarterly	Calculated	SLF-2
Copper	Lb/ac	Max	125	Annual Total	Quarterly	Calculated	SLF-2
Lead	Lb/ac	Max	500	Annual Total	Quarterly	Calculated	SLF-2
Nickel	Lb/ac	Max	125	Annual Total	Quarterly	Calculated	SLF-2
Zinc	Lb/ac	Max	250	Annual Total	Quarterly	Calculated	SLF-2
Cadmium, Sludge, Tot, Dry Wt. (as Cd)	mg/kg	Max	Report	Single Sample	Quarterly	Composite	SLF-1
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	Report	Single Sample	Quarterly	Composite	SLF-1
Lead, Dry Weight, Sludge	mg/kg	Max	Report	Single Sample	Quarterly	Composite	SLF-1
Nickel, Dry Weight, Sludge	mg/kg	Max	Report	Single Sample	Quarterly	Composite	SLF-1
Zinc, Dry Weight, Sludge	mg/kg	Max	Report	Single Sample	Quarterly	Composite	SLF-1

[62-620.320(6)]

5. Sludge samples shall be taken at the monitoring site locations listed in Permit Condition II.4. and as described below:

Monitoring Site	Description of Monitoring Site
SLF-1	Aerobic Digester
SLF-2	Calculated value

6. Sludge shall only be land applied on the following:

Site Name	County
44-Acre Sludge Spray Field	Suwannee

7. The permittee shall maintain records available for inspection by the Department at the permitted facility, as follows:

   a. Quantity of sludge generated;
   b. Quantity of sludge transported for treatment and/or disposal;
   c. Name and location of the site(s) to which sludge is transported;
   d. If a person other than the permittee is responsible for sludge transportation, treatment, and/or disposal, the permittee shall also keep records of the name and address of each transporter, and copies of all shipping manifests.

   [62-620.320(6)]

8. Sludge shall not be applied during rains that cause runoff from the site or when surface soils are saturated. Sludge shall be applied in such a way to insure that neither ponding nor run-off from the land application site occurs. *[62-620.320(6)]*

9. The wetted perimeter of the spray irrigation areas shall be a minimum of 100 feet from any property boundary unless special measures such as the planting of trees are used to prevent aerosol drift onto adjacent property.

10. The following setback distances from land application areas shall be maintained:

a.	To drinking water supply wells	200 feet
b.	To natural water courses	50 feet
c.	To drainage ditches	50 feet

III. GROUNDWATER REQUIREMENTS

1. The permittee shall give at least 72-hours' notice to the DEP Northeast District Office, prior to the installation of any monitoring wells. *[62-520.600(6)(h)]*

2. Before construction of new groundwater 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 DEP Northeast District Office, well completion reports and soil boring/lithologic logs on DEP Form 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 groundwater 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. A zone of discharge (ZOD) is established for Land Application System R-001, extending horizontally along the ground surface to the facility property boundaries and vertically to the base of the Upper Floridan aquifer. [62-520.200(26)] [62-520.200(10) and 62-520.465]

6. The permittee's discharge to groundwater shall not cause a violation of any primary water quality standard at the boundary of the established zone of discharge (ZOD), nor cause the exceedance of a secondary standard at any potable well beyond the ZOD. The limited exemption from secondary standards is subject to the terms set forth in Section 62-520.520, F.A.C.

7. The groundwater minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the established ZOD. *[62-520.400 and 62-520.420(4)]*

8. If the concentration for any monitored constituent in the natural background 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)]*

9. During the period of operation authorized by this permit, the permittee shall continue to sample groundwater at the monitoring wells identified below in accordance with this permit and the approved groundwater monitoring plan. *[62-520.600]*

Monitoring Well ID	Alternate Well Name and/or Monitoring Location	Latitude (N)	Longitude (W)	Depth (Feet)	Aquifer Monitored	New or Existing
MWB-1	550' NE of land application site (LAS).	30° 22'01"	83° 09'34"	45	Floridan	Existing
MWI-4*	Along west margin of LAS.	30° 21'56"	83° 09'55"	50	Floridan	Existing
MWC-5R	200' SW of LAS, along southern property line.	30° 21'47"	83° 09'52"	54	Floridan	Existing
MWC-6R	600' west of LAS, along west property line.	30° 21'58"	83° 10'01"	50	Floridan	Existing

MW**C** = Compliance; MW**B** = Background; MW**I** = Intermediate * *See specific condition III.11*

10. The following parameters shall be analyzed for each monitoring well previously identified.

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	feet	In Situ	Quarterly

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Specific Conductance	Report	µmhos/cm	In Situ	Quarterly
pH	Report	s.u.	In Situ	Quarterly
Nitrite plus Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	Report	mg/L	Grab	Quarterly
Sulfate, Total	Report	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100mL	Grab	Quarterly

[62-520.600(11)(b)]

11. With the renewal permit application, the permittee shall submit sampling results from monitor well **MWI-4** for the primary and secondary drinking water parameters listed in Tables 1, 4 and 6 of Chapter 62-550, (*excluding asbestos and odor*), but including turbidity. Sampling shall occur no sooner than 180 days before submittal of the renewal permit application. *NOTE: Submittal of the original laboratory report is acceptable for this monitoring, and transcription to another reporting format is not required. [62-520.600(5)(b)]*

12. 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)]*

13. Groundwater monitoring wells shall be purged prior to sampling to obtain representative samples. *[62-160.210]*

14. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the DEP Northeast District Office as being more representative of groundwater conditions. *[62-520.310(5)]*

15. Groundwater monitoring test results shall be submitted on Part D of Form 62-620.910(10) in accordance with Permit Condition I.C.3. *[62-520.600(11)(b)]*

16. If any monitoring well becomes inoperable or damaged to the extent that the sampling or well integrity may be affected, the permittee shall notify the Department's Northeast 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 Northeast District Office before installation. *[62-520.600(6)(l)]*

IV. ADDITIONAL LAND APPLICATION REQUIREMENTS

1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. *[62-620.320(6)]*

2. The frequency and rate of land application shall be managed by the permittee in a manner that will not cause objectionable odors, vector attraction, or other nuisance conditions. *[62-620.320(6)]*

V. OPERATION AND MAINTENANCE REQUIREMENTS

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. *[62-620.320(6)]*

2. 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. A copy of the current permit;

   e. A copy of any required record drawings; and

   f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

   [62-620.350]

VI. SCHEDULES

1. The following actions shall be completed according to the following schedule. The Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
Continue implementing the existing BMP Plan	Effective date of permit

   [62-620.320(6)]

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

   a. The permittee has applied for renewal of this permit at least 180 days before the expiration date of this permit using the appropriate forms listed in Rule 62-620.910, F.A.C., and in the manner established in the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.; or

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

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

VII. BEST MANAGEMENT PRACTICES/STORMWATER POLLUTION PREVENTION PLANS

1. The permittee shall during the term of this permit operate the facility in accordance with the existing Best Management Practices (BMP) or in accordance with subsequent amendments to the Plan. The permittee shall also amend this Plan, to incorporate practices to achieve the objectives and specific

requirements listed below. The permittee shall maintain the Plan at the facility and shall make the plan available to the Department upon request. The Plan shall be implemented in accordance with the schedule contained in Part VI of this permit. *[62-620.100(3)(m)]*

2. Through implementation of the Best Management Practices (BMP), the permittee shall prevent or minimize the generation and the potential for the release of pollutants from the facility to the waters of the State through normal operations and ancillary activities. *[62-620.100(3)(m)]*

3. The permittee shall develop and amend the BMP Plan consistent with the following objectives for the control of pollutants.

   a. The number and quantity of pollutants and the toxicity of effluent generated, discharged or potentially discharged at the facility shall be minimized by the permittee to the extent feasible by managing each influent waste stream in the most appropriate manner.

   b. Under the BMP Plan, and any Standard Operating Procedures (SOPs) included in the Plan, the permittee shall ensure proper operation and maintenance of the treatment facility.

   c. The permittee shall establish specific objectives for the control of pollutants by conducting the following evaluations.
      (1) Each facility component or system shall be examined for its waste minimization opportunities and its potential for causing a release of significant amounts of pollutants to waters of the United States due to equipment failure, improper operation, and natural phenomena such as rain or adverse weather, etc. The examination shall include all normal operations and ancillary activities including but not limited to material storage areas, plant site runoff, in-plant transfer, process and material handling areas, loading or unloading operations, spillage or leaks, sludge and waste disposal, or drainage from raw material storage, as applicable.
      (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the program should include a prediction of the direction, rate of flow and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.

   [62-620.100(3)(m)]

4. The BMP Plan shall be consistent with the objectives in Part 3 above and the general guidance contained in the publication entitled Guidance Manual for Developing Best Management Practices (BMPs) (USEPA, 1993) or any subsequent revisions to the guidance document. The BMP Plan shall:

   a. Be documented in narrative form, shall include any necessary plot plans, drawings or maps, and shall be developed in accordance with good engineering practices.
   b. Establish specific best management practices to meet the objectives identified in Part 3 of this section, addressing each component or system capable of generating or causing a release of significant amounts of pollutants, and identifying specific preventative or remedial measures to be implemented.

   [62-620.100(3)(m)]

5. The BMP Plan shall be signed by the permittee or their duly authorized representative in accordance with Rule 62-620.305(2)(a) and (b), F.A.C. The Plan shall be reviewed by appropriate facility staff and management. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of the Plan shall be signed and sealed by the professional(s) who prepared them.

   The BMP Plan shall contain a written statement from corporate or facility management indicating management's commitment to the goals of the BMP Plan program. Such statements shall be

publicized or made known to all facility employees. Management shall also provide training for the individuals responsible for implementing the BMP Plan. *[62-620.100(3)(m)]*

6. The permittee shall maintain a copy of the BMP Plan at the facility and shall make the plan available to the Department upon request. All offices of the permittee which are required to maintain a copy of the NPDES permit shall also maintain a copy of the BMP Plan. *[62-620.100(3)(m)]*

7. If following review by the Department, the BMP Plan is determined insufficient, the permittee will be notified that the Plan does not meet one or more of the minimum requirements of this Part. Upon such notification from the Department, the permittee shall amend the plan and shall submit to the Department a written certification that the requested changes have been made. Unless otherwise provided by the Department, the permittee shall have 30 days after such notification to make the changes necessary.

   The permittee shall amend the BMP Plan whenever there is a change in the facility or in the operation of the facility which materially increases the generation of pollutants or their release or potential release to the receiving waters. The permittee shall also amend the Plan, as appropriate, when plant operations covered by the BMP Plan change. Any such changes to the Plan shall be consistent with the objectives and specific requirements listed above. *[62-620.100(3)(m)]*

VIII. RE-OPENER CLAUSE

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 303(d), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:

   a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;

   b. Controls any pollutant not addressed in the permit.

   The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

2. The permit may be reopened to adjust effluent limitations or monitoring requirements study should future Water Quality Based Effluent Limitation (WQBEL) determinations, water quality studies, DEP approved changes in water quality standards, DEP adopted Basin Management Action Plan (BMAP), applicable Numeric Nutrient Criteria (NNC) or other information show a need for a different limitation or monitoring requirement . On-going studies for the springshed in this area by regulatory agencies may result in additional limitations, monitoring or other actions causing the permit to be reopened. *[62-620.320(6)]*

IX. OTHER SPECIFIC CONDITIONS

1. 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)]*

2. The permittee shall provide verbal notice to the Department's Northeast 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, or wastewater sludges. The Permittee shall immediately implement

measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Northeast District Office in a written report within 7 days of the sinkhole discovery. *[62-620.320(6)]*

3. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:

   a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
      (1) One hundred micrograms per liter,
      (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2, 4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony, or
      (3) Five times the maximum concentration value reported for that pollutant in the permit application; or

   b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels;
      (1) Five hundred micrograms per liter,
      (2) One milligram per liter for antimony, or
      (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

   [62-620.625(1)]

X. 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)]*

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)]*

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, 62-601, 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 any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. For noncompliance events related to sanitary sewer overflows or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (sanitary sewer overflows or bypass events), type of sewer overflow (e.g., manhole), discharge volumes by the treatment works treating domestic sewage, types of human health and environmental impacts of the sewer overflow event, and whether the noncompliance was related to wet weather. The written submission may be provided electronically using the Department's Business Portal at http://www.fldepportal.com/go/ (via "Submit" followed by "Report" or "Registration/Notification"). Notice required under paragraph (d) may be provided together with the written submission using the Business Portal. All noncompliance events related to sanitary sewer overflows or bypass events submitted after December 21, 2020 shall be submitted electronically.
    a. The following shall be included as information which must be reported within 24 hours under this condition:
        (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
        (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
        (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
        (4) Any unauthorized discharge to surface or groundwaters.
    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 Northeast 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 Northeast District Office shall waive the written report.

d. In accordance with Section 403.077, F.S., unauthorized releases or spills reportable to the StateWatch Office pursuant to subparagraph (b)1. above shall also be reported to the Department within 24 hours from the time the permittee becomes aware of the discharge. The permittee shall provide to the Department information reported to the State Watch Office. Notice of unauthorized releases or spills may be provided to the Department through the Department's Public Notice of Pollution web page at https://floridadep.gov/pollutionnotice.

(1) If, after providing notice pursuant to paragraph (d) above, the permittee determines that a reportable unauthorized release or spill did not occur or that an amendment to the notice is warranted, the permittee may submit additional notice to the Department documenting such determination.

(2) If, after providing notice pursuant to paragraph (d) above, the permittee discovers that a reportable unauthorized release or spill has migrated outside the property boundaries of the installation, the permittee must provide an additional notice to the Department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

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

21. 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, or 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 X.5. of this permit; and
   (4) The permittee complied with any remedial measures required under Permit Condition X. 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 Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Thomas G. Kallemeyn
Permitting Program Administrator

DATE: April 9, 2020

FACT SHEET
FOR
STATE OF FLORIDA
INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMIT NUMBER: FL0001465 – 008 (Major)

FACILITY NAME: Pilgrim's Pride Live Oak Processing Plant

FACILITY LOCATION: 19740 US Highway 90, Live Oak, Florida 32060
Suwannee County

NAME OF PERMITTEE: Pilgrim's Pride Corporation

RESPONSIBLE OFFICIAL: Mr. Dave Townsend, Vice President Environmental
Pilgrim's Pride Live Oak Processing Plant
19740 U.S. Highway 90 West
Live Oak, Florida 32060
Telephone: (386) 208-0218
Email: Dave.Townsend@Pilgrims.com

PERMIT WRITER: D. Anh Vo, P.E

PERMIT REVIEWER: Jeff Martin, P.E.

The Clean Water Act (Federal Water Pollution Control Act Amendments, 1972, and later modifications, 1977, 1981, and 1987) established water quality goals for the navigable surface waters of the United States. One of the mechanisms for achieving the goals of the Clean Water Act is the National Pollutant Discharge Elimination System of permits (NPDES permits), which is administered by the Environmental Protection Agency (EPA). The EPA has authorized Florida to administer the NPDES permit program. Chapter 403 of Florida Statutes defines the Florida Department of Environmental Protection's (FDEP) authority and obligations in administering the NPDES program.

The regulations adopted by the state include procedures for issuing permits (Chapter 62-620 FAC), technical criteria for discharges from industrial wastewater treatment facilities (Chapter 62-620, 62-660 FAC), and water quality criteria for surface and groundwaters (Chapters 62-302, 62-303, 62-304, 62-650 FAC). These regulations require that a permit be issued before discharge of wastewater to waters of the state is allowed. The regulations also establish the basis for effluent limitations and other requirements which are to be included in the permit. This fact sheet is a companion document to the NPDES permit and explains the nature of the proposed discharge, the Department's decisions on effluent limitations and controls on pollutants discharged to surface waters, and the regulatory and technical basis for those decisions included on the facility's NPDES permit.

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number:	FL0001465 – 008 – IW7A
Application Submittal Date:	November 08, 2019
Request for Additional Information:	None
Received Additional Information:	None
Application Deemed to be Completed	November 08, 2019

b. Type of Facility

This facility processes live poultry into fresh and frozen chicken meat products, operates a broiler hatchery to produce chicks for distribution to growers.

SIC Code: 2015 – Poultry Processing
Secondary SIC Code: 0254 – Poultry Hatchery
Tertiary SIC Code: 4212 – Vehicle Maintenance

c. Facility Capacity

i. Treatment Capacity:

	Design Capacity	**Permitted Capacity**
Existing	1.50 MGD MADF	1.50 MGD MADF
Proposed Increase	0.00 MGD MADF	0.00 MGD MADF
Proposed Total	1.50 MGD MADF	1.50 MGD MADF

ii. Disposal Capacity:

	Surface Water Discharge Capacity (MGD Monthly Avg Daily Flow)		**Reuse of Water Capacity** (MGD Maximum Daily Flow)	
	Design	**Permitted**	**Design**	**Permitted**
Existing	1.50 MGD	1.50 MGD	0.04 MGD	0.04 MGD
Proposed Increase	0.00 MGD	0.00 MGD	0.00 MGD	0.00 MGD
Proposed Total	1.50 MGD	1.50 MGD	0.04 MGD	0.04 MGD

d. Description of Wastewater Treatment

Process wastewater is generated from poultry processing, the hatchery and plant sanitation activities. Non-process wastewater is generated from boiler/condenser blowdown operations, water treatment plant filtrate, treated sanitary wastewater, treated vehicle and equipment wash water, and collected stormwater from industrial activity at the site. The facility produces a monthly average daily flow of 1.50 million gallons per day (MGD). Process wastewater goes into the 0.075-MG dissolved air flotation (DAF) separation unit and then into the 15-million gallon (MG) anaerobic basin. Non-process wastewater bypasses the DAF and joins the process wastewater in the anaerobic basin. The commingled waste stream then flows from the anaerobic basin into the 0.50-MG anoxic basin, then into the 1.4-MG aeration basin, and then is split into the north and south 0.10-MG clarifiers. Activated sludge is returned to the anoxic basin and waste sludge is sent to the 1.2-MG aerobic sludge digester. Effluent from the secondary clarifiers may flow into either the 7.5-MG lined, facultative polishing pond or directly to the pump station feeding the denitrification filters (or both) after which the effluent stream receives pH adjustment and then flows to the chlorine contact chamber for disinfection. Following dechlorination, the treated water is discharged to the Suwanee River, a special category of waterbodies within the State designated as an Outstanding Florida Waters (OFW). Waste sludge treated in the aerobic sludge digester is land applied by spray irrigation to an on-site, 44-acre land application system.

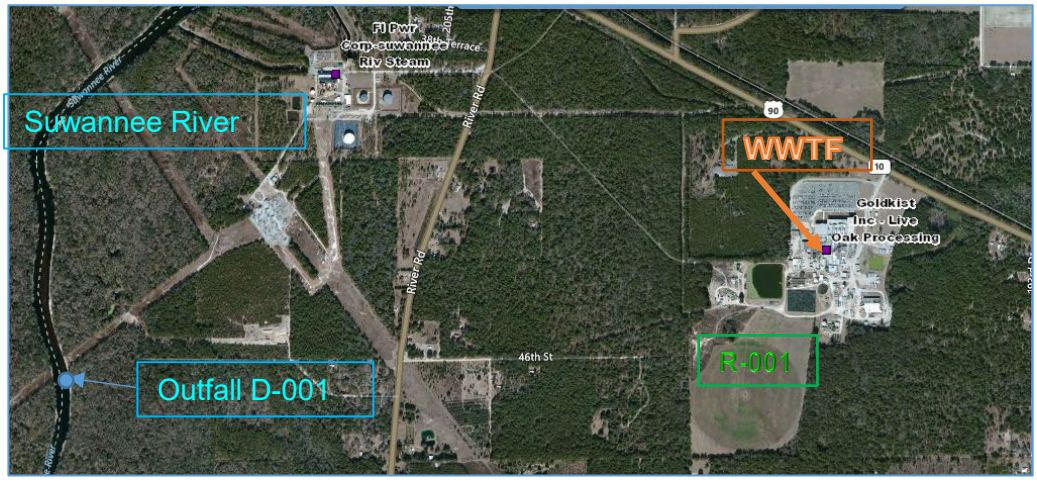
e. <u>Description of Effluent Disposal and Land Application Sites (as reported by applicant)</u>

❖ Wastewater Treatment Facility

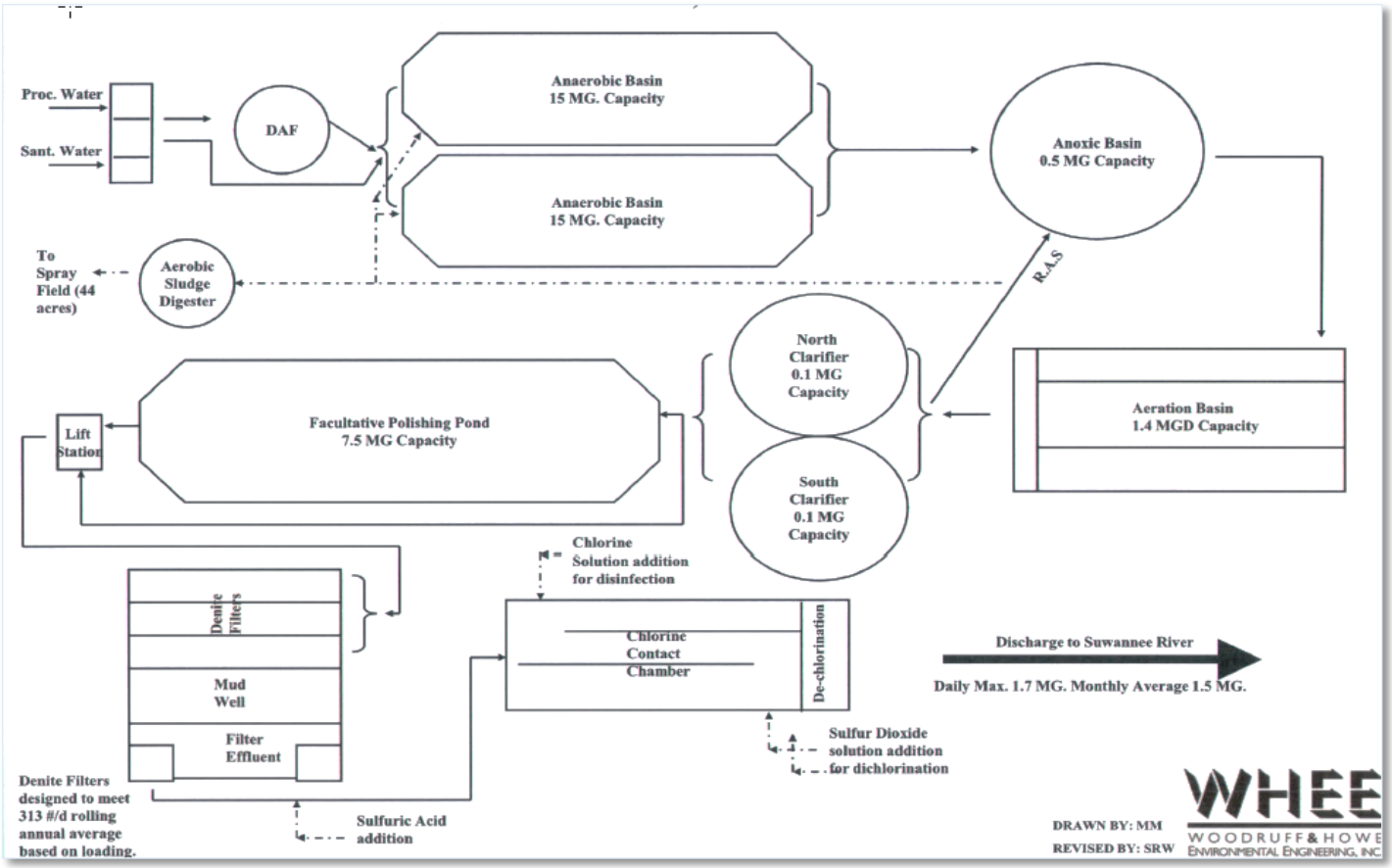
The facility produces a monthly average daily flow of 1.50 million gallons per day (MGD). Process wastewater is generated from poultry processing, the hatchery, plant sanitation activities; non-process wastewater is generated from boiler/condenser blowdown operations, water treatment plant filtrate, treated sanitary wastewater, treated vehicle and equipment wash water, and collected stormwater from industrial activity at the site. Process wastewater goes into the 0.075-MG dissolved air flotation (DAF) separation unit and then into the 15-million gallon (MG) anaerobic basin. Non-process wastewater bypasses the DAF and joins the process wastewater in the anaerobic basin. The commingled waste stream then flows from the anaerobic basin into the 0.50-MG anoxic basin, then into the 1.4-MG aeration basin, and then is split into the north and south 0.10 MG clarifiers. Activated sludge is returned to the anoxic basin and waste sludge is sent to the 1.2-MG aerobic sludge digester. Effluent from the secondary clarifiers may flow into either the 7.5-MG lined, facultative polishing pond or directly to the pump station feeding the denitrification filters (or both) after which the effluent stream receives pH adjustment and then flows to the chlorine contact chamber for disinfection. Following dechlorination, the treated water is discharged to the Suwanee River (Class III Fresh Water), an Outstanding Florida Water (OFW). Waste sludge treated in the aerobic sludge digester is land applied by spray irrigation to an onsite 44-acre land application system.

- **<u>Figure 1: Site Plant</u>**

- **Figure 2: Effluent Disposal/Land Application Sites**

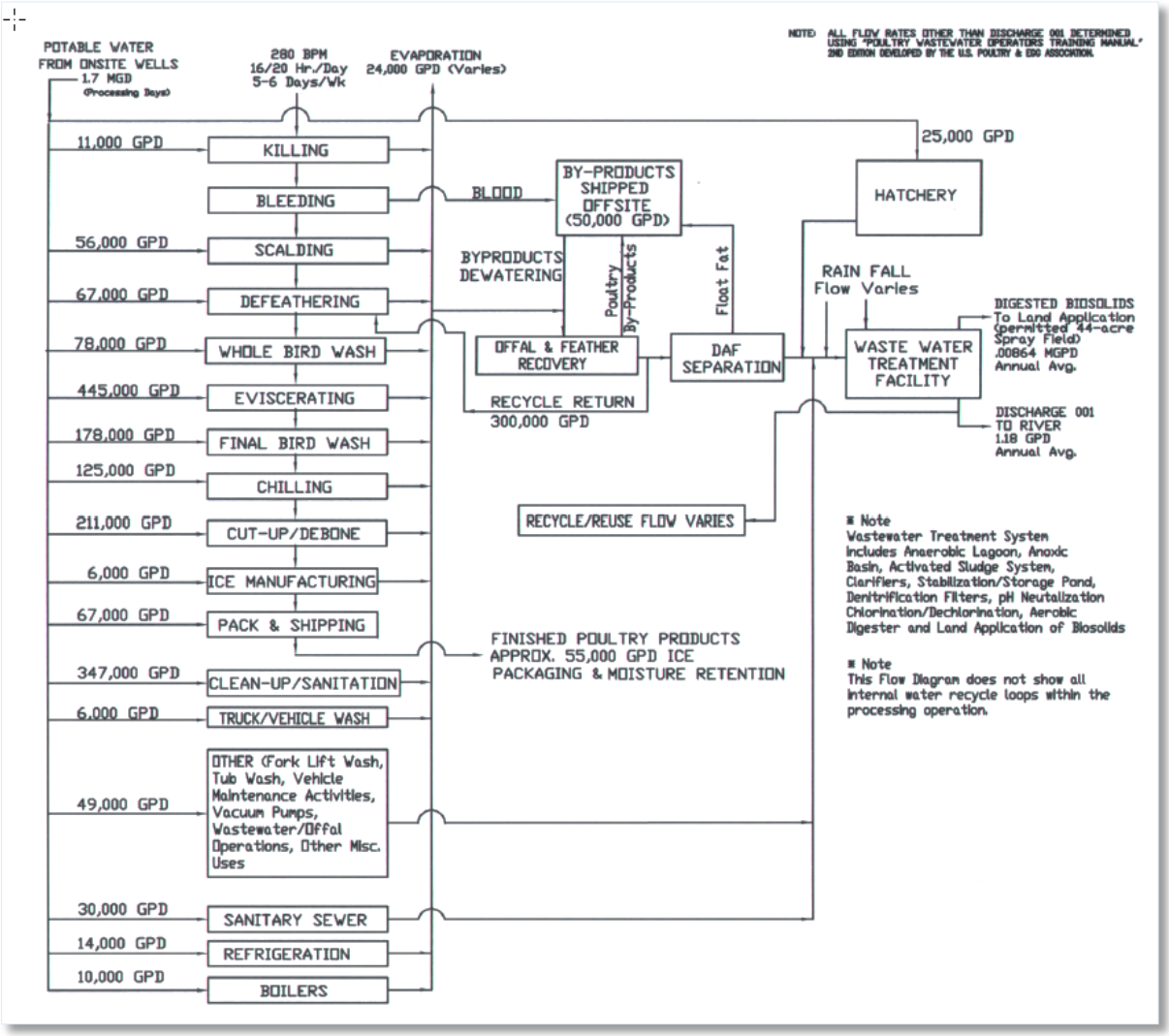


- **Figure 3: Process Flow Diagram**



Note: *Water used in food processing plants is significantly impacted by USDA-FSIS food safety requirements, market conditions, product mix, and other factors, and, accordingly, actual water use and wastewater discharges associated with specific operation are subject to variation based on these factors.*

- **Figure 4: Water Balances**



❖ Pollutants which are present in significant quantities or which are subject to permit limitations are as follows:
Summary Data Reported in Form 2CS (Section VII)

Parameter	Units		Effluent						No. of Samples
	Conc.	Mass	Max Daily Value		Max 30-day Value		Ann Avg Value		
			Conc.	Mass	Conc.	Mass	Conc.	Mass	
CBOD	mg/L	Lb/day	47.0	319.1	17.7	180.6	5.2	50.6	156
Chemical Oxygen Demand	mg/L	Lb/day	25.0	-	25.0	-	25.0	-	1
Total Organic Carbon	mg/L	Lb/day	30.0	159.1	14.9	141.1	7.87	75.55	92

Parameter	Units		Effluent						No. of Samples
	Conc.	Mass	Max Daily Value		Max 30-day Value		Ann Avg Value		
			Conc.	Mass	Conc.	Mass	Conc.	Mass	
Total Suspended Solids	mg/L	Lb/day	14.0	107.8	7.5	61.3	2.9	29.0	156
Total Nitrogen	mg/L	Lb/day	66.0	629.6	38.8	416.8	21.3	212.9	156
Total Phosphorus	mg/L	Lb/day	33.0	425.1	18.2	223.6	10.7	109.1	156
Ammonia	mg/L	Lb/day	56.0	484.0	14.9	131.4	0.54	4.5	156
Nitrate + Nitrite	mg/L	Lb/day	60.0	624.6	38.0	406.3	19.6	197.1	165
Organic Nitrogen	mg/L	Lb/day	39.9	222.6	10.1	56.6	1.23	11.4	155
Flow Rate	MGD	-	1.68	-	1.48	-	1.23	-	1095
pH (Minimum)	su	-	5.8	-	6.53	-	-	-	1095
pH (Maximum)	su	-	8.78	-	7.76	-	-	-	1095
Temperature (Winter)	˚C	-	24.7	-	21.5	-	-	-	642
Temperature (Summer)	˚C	-	30.3	-	28.0	-	-	-	642
Specific Conductivity	Umhos /cm	-	1566	-	1317	-	-	-	156
Fecal Coliform	#/100 mL	-	180	-	21.3	-	3.76	-	156

2. FILES REVIEW – BACKGROUND INFORMATION:

a. Facility Performance Review

i. Compliance History:

1) Department records indicate that the facility has been scored out-of-compliance during the Department conducting CEIs on September 2018 and November 2019. From a report dated December 03, 2019, Department personnel conducted a compliance evaluation inspection on November 5, 2019. Non-compliance identified in the inspection report has been corrected. Based on the information provided during and following the inspection, the facility was determined to be in compliance with the Department's wastewater rules and regulations.

2) Compliance Sampling Inspection

a) FDEP Sampling Inspections. The latest third-year (FYI3) Sampling Inspections were conducted by the Department on June 18, 2014 (with the field sampling on June 9, 2014), August 2011 and August 2012. A summary of the FYI3 sampling results is tabulated in the table below:

Parameter	Unit	FYI3 8/08/2011	FYI3 8/06/2012	FYI3 6/9/2014
Algal Growth Potential (AGP)	mg/kg dry wt/L	136	283	180
Chlorophyll-a (corrected)	µg/L	4.4	6.1	0.55 U
Fecal Coliforms	#/100 mL	6	21	2.0 U
Orthophosphate	mg/L	6.2	12	15
Total Phosphorus	mg/L	7.1	13	17
Total Ammonia	mg/L	0.086	0.068	0.064
Un-ionized Ammonia	mg/L	< 0.02	< 0.02	-
Nitrate and Nitrite	mg/L	6.5	13	17
Total Kjeldahl Nitrogen (TKN)	mg/L	1.4	1.7	1.8
Organic Nitrogen	mg/L	1.314	1.632	
Total Nitrogen	mg/L	7.9	14.7	18.8
Dissolved Oxygen	mg/L	5.2	8.5	7.08
pH	S.U.	7.3	7.2	7.25
Conductivity	µmhos/cm	1059	848	1114
Temperature	Deg C	30.4	29.7	29.19
Salinity	ppt		< 0.38	0.51
Oil and Grease	mg/L	0.7 U	0.81 U	0.77 U
Hardness (mg CaCO3)	mg/L	244.95	292.32	

b) Biological Integrity Testing. Biological monitoring was conducted at four stations in the middle Suwannee River to monitor the effects of the Pilgrim's Pride Live Oak Processing discharges on the health of the downstream benthic community. Approximately, 1.50 MGD Monthly Average Daily Flow of treated wastewater is discharged into the Suwannee River through an outfall pipe (D-001) located medially between two biotic integrity sampling stations. Biotic integrity monitoring stations exist on each bank of the River at both upstream and downstream locations from the outfall, as noted in the aerial below.

- Results from the 2014 report, received by the Department in February 2015, indicate the Facility is not having an adverse effect on downstream benthic macroinvertebrate communities in the Suwannee River. Community metrics measured downstream of the Facility discharge were not reduced from upstream (reference) conditions and were consistent with background levels from preceding years. Diversity, taxa richness, Florida Index and EPT richness were all greatest at SWD-1 (East), which is the station most directly influenced by the Facility discharge, but were not greatly different from the other three stations. The number of sensitive taxa differed by only two between up-stream and down-stream stations. Combined, these data are indicative that the level of enrichment from the discharge is not having an adverse or depreciative effect on the faunal community of the river.[1]

- Results from the 2011 monitoring indicated no depreciation in community health downstream from D001. Invertebrate densities were greater at the upstream sites; however, remaining faunal metrics; *e. g*., taxa richness, EPT, and Shannon-Weaver Diversity Index (Diversity), measured higher downstream of D-001. The results of the 2011 Biological Integrity Monitoring indicated the facility's discharge is not having an adverse effect on downstream benthic macroinvertebrate communities in the Suwannee River. Community metrics measured downstream of the Facility discharge were not reduced from upstream (reference) conditions and were consistent with background levels from preceding years. These data remain compliant with the Florida Class III surface water standard (62-302.530, F.A.C.), which states that diversity for macroinvertebrates shall not be reduced to less than 75% of established background levels.[2]

- The results of the 2010 Biological Integrity monitoring indicated the Pilgrim's Pride Live Oak Processing Facility is not having an adverse effect on downstream benthic macroinvertebrate communities in the Suwannee River. Richness, abundance, and density were greater at the downstream stations; however, distribution, measured by EPT score, diversity and evenness, were similar between the upstream and downstream communities. The Shannon-Weaver Diversity Index varied by less than one percent among the upstream (background) and downstream (treatment) stations. Benthic invertebrate collections at these stations took place during November-December 2010.[3]

ii. Characteristics of the Effluent

❖ **Effluent – Analytical Samples Results Summary**

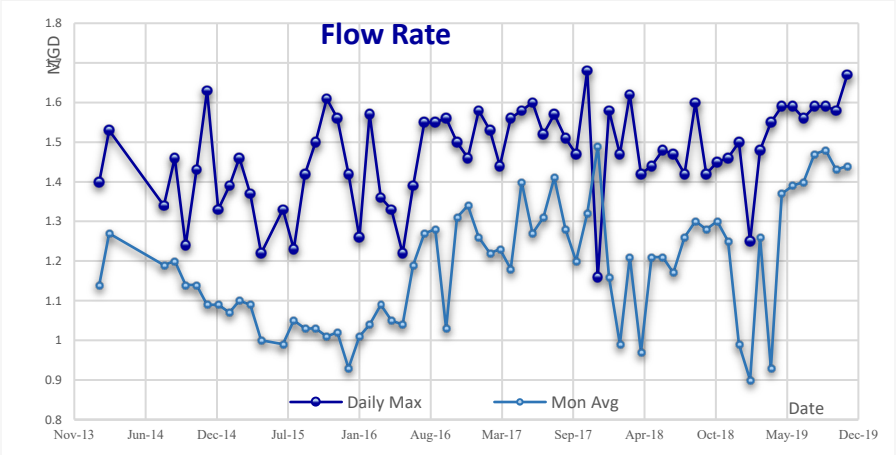
- Liquid Effluent – DMR Data (January 2014 through November 2019)

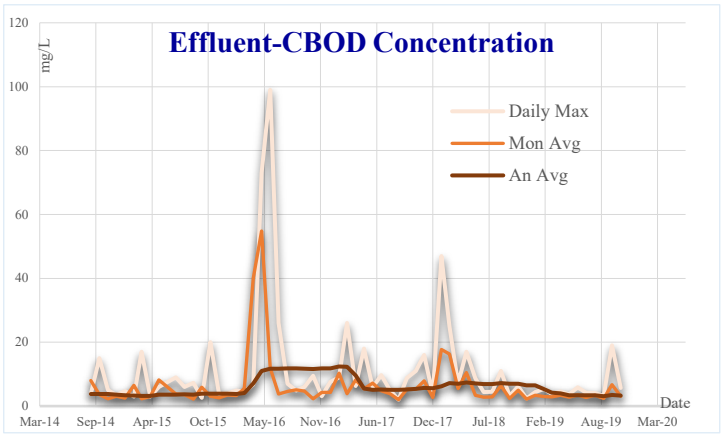
Parameter		Permit Limit	Avg	Mod	Med.	95th Per.	Max	Skew	Stand Dev.
Flow Rate *(MGD)*	AADF	Report							
	Daily Max	1.70	0.04	0.04	0.04	0.05	0.08	-0.05	0.01
	MADF	1.50	0.02	0.01	0.01	0.09	0.16	2.97	0.03
CBOD5 *(mg/L)*	AA	15.0	6.03	3.80	5.10	11.80	12.40	1.07	2.98
	MA	18.0	6.26	3.10	3.80	16.08	54.80	4.57	8.31
	Daily Max	24.3	11.21	6.00	6.00	26.00	99.00	3.97	16.08

[1] Cardno, Biotic Integrity Monitoring Report – Fall 2014.
[2] Cardno Entrix, Biotic Integrity Monitoring Report – Fall 2011; May 2012, Revised November 2014
[3] Cardno Entrix, Biotic Integrity Monitoring Report – Fall 2010; March 2011, Revised November 2014

Parameter		Permit Limit	Avg	Mod	Med.	95th Per.	Max	Skew	Stand Dev.
CBOD5 *(lbs/day)*	Daily Max	211	111.15	42.00	63.00	298.00	888.00	3.63	151.90
	Mon Avg	156	63.10	25.00	40.00	144.50	448.00	3.95	76.29
Total Suspended Solids *(mg/L)*	AA	20.0	3.04	3.40	3.15	3.70	3.90	-0.45	0.52
	MA	25.5	3.02	2.00	2.65	4.80	7.50	1.50	1.11
	Daily Max	46.2	4.38	2.00	4.00	8.35	14.00	1.62	2.39
TSS *(lbs/day)*	Daily Max	401	43.06	34.00	35.00	78.00	108.00	1.11	20.76
	Mon Avg	221	29.18	21.00	26.00	44.00	61.00	0.94	9.94
Fecal Coliform, *(#/100mL)*	Daily Max	Report	29.94	1.00	15.00	102.60	180.00	1.80	37.97
Dissolved Oxygen *(mg/L)*	Min	5.0	6.06	5.10	5.85	7.72	8.00	0.56	0.90
Nitrogen, Total *(mg/L)*	AA	Report	37.27	23.39	23.85	41.67	276.00	4.25	49.03
	MA	Report	30.75	21.80	24.20	48.08	339.00	7.14	41.10
	Daily Max	Report	47.88	23.00	35.95	80.14	426.00	5.20	59.13
Nitrogen, Total *(lbs/year)*	An Total	114245	88879	#N/A	85397	12791	132301	0.73	19101
Nitrogen, Total *(lbs/mon)*	Mon Total	Report	4918	#N/A	5035	9804	12265.0	0.17	3098
Nitrate plus nitrite *(mg/L)*	Mon Avg	Report	24.29	15.00	22.75	46.26	52.80	0.65	10.71
	Daily Max	Report	36.17	29.00	33.50	69.50	91.00	0.91	17.54
Nitrogen, ammonia, total *(mg/L)*	Single	Report	0.35	0.10	0.10	0.88	5.60	4.64	0.97
Un-ionized Ammonia *(mg/L)*	Mon Avg	Report	0.001	0.000	0.001	0.004	0.013	3.983	0.002
	Daily Max		0.001	0.000	0.001	0.003	0.015	5.005	0.002
Nitrogen, Kjeldahl, Total *(mg/L)*	Mon Avg	Report	1.65	1.30	1.20	3.16	24.90	7.46	3.06
	Daily Max	Report	2.81	1.50	1.50	6.76	56.00	7.30	7.05
Nitrogen, Kjeldahl, Total *(lbs/day)*	Daily Max	130	26.42	11.90	16.80	38.95	484.00	6.97	65.87
	Mon Avg	87	15.14	14.00	12.00	18.35	188.00	6.89	24.97
Total, Phosphorus *(mg/L)*	AA	Report	16.56	6.73	13.25	19.35	139.00	4.76	23.06
	MA	Report	11.75	12.10	13.02	17.44	18.30	-1.05	4.93
	Daily Max	Report	15.17	18.50	15.65	21.68	33.00	-0.53	5.77
Total, Phosphorus *(lbs/year)*	An Total	68465	43107	#N/A	45859	51448	51793	-1	8594
Total, Phosphorus *(lbs/mon)*	Mon Total	Report	2502	#N/A	2772	4930	6959	0	1905
Specific Conductance *(uhmos/cm)*	Single	Report	1130.6	1200.0	1154.0	1373.2	1566.0	0.0	172.7

- Graphs




Effluent-CBOD Concentration
mg/L
Daily Max
Mon Avg
An Avg
Date
0
20
40
60
80
100
120
Mar-14
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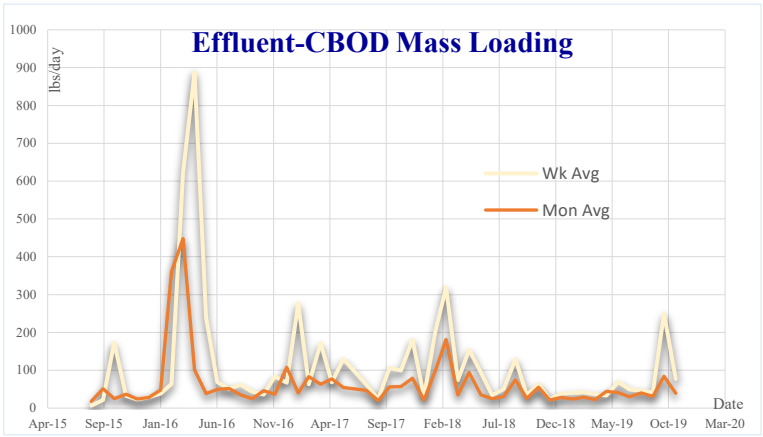
Apr-15
Oct-15
May-16
Nov-16
Jun-17
Dec-17
Jul-18
Feb-19
Aug-19
Mar-20


Effluent-CBOD Mass Loading
lbs/day
Wk Avg
Mon Avg
Date
0
100
200
300
400
500
600
700
800
900
1000
Apr-15
Sep-15
Jan-16
Jun-16
Nov-16
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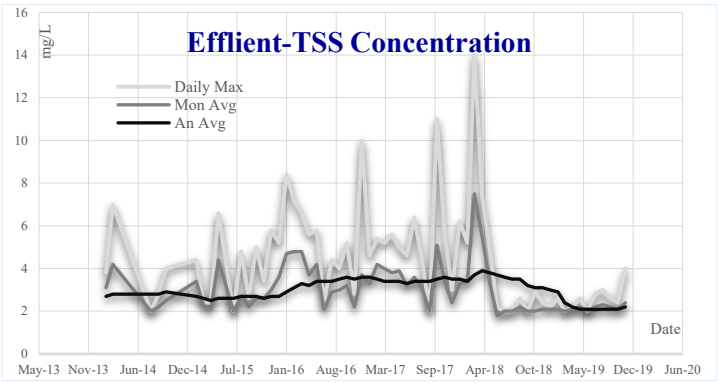
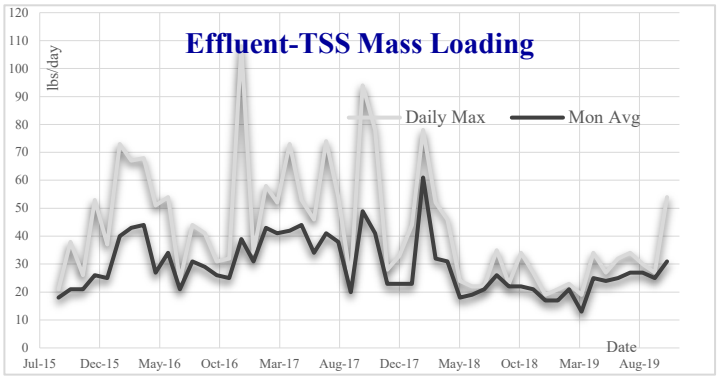
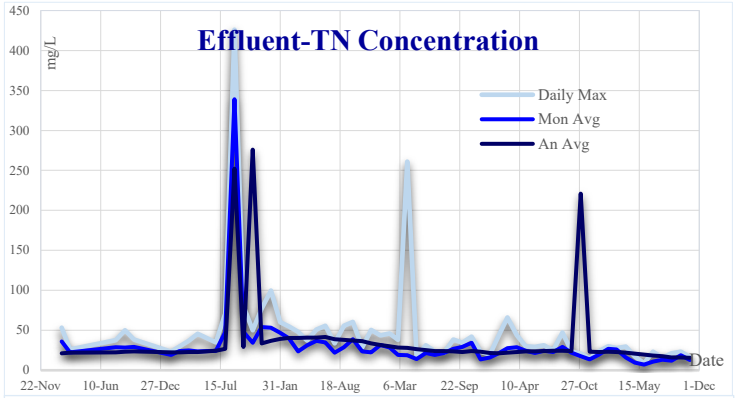
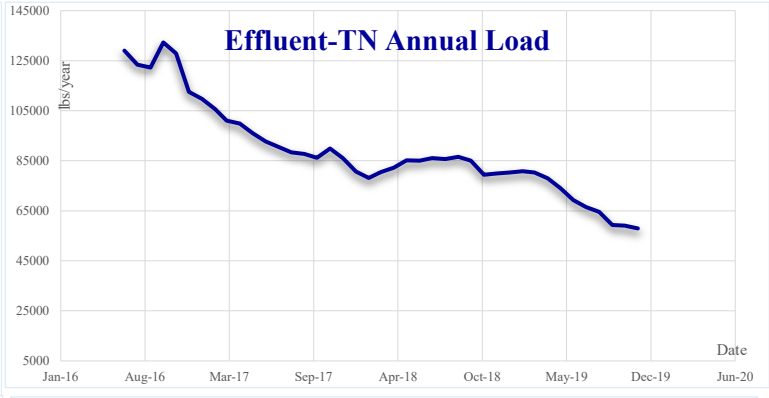
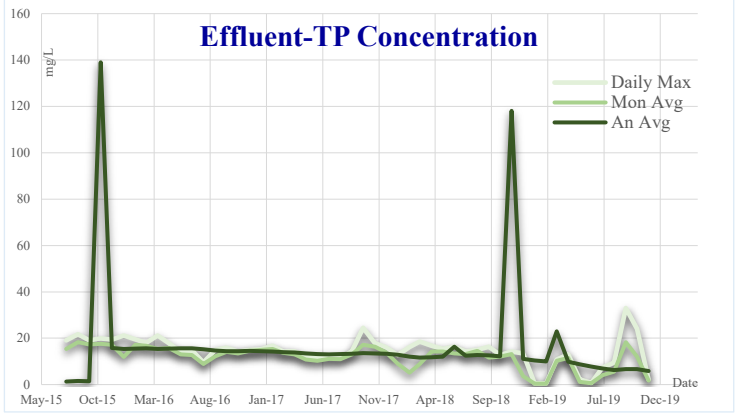
Feb-18
Jul-18
Dec-18
May-19
Oct-19
Mar-20

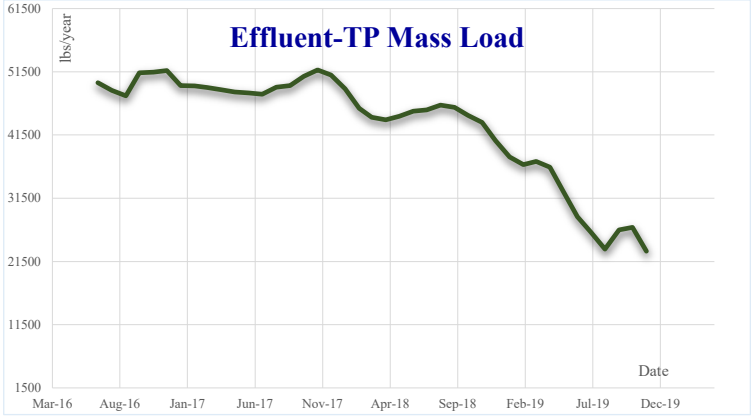

Efflient-TSS Concentration
mg/L
Daily Max
Mon Avg
An Avg
Date
0
2
4
6
8
10
12
14
16
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18
Oct-18
May-19
Dec-19
Jun-20


Effluent-TSS Mass Loading
lbs/day
Daily Max
Mon Avg
Date
0
10
20
30
40
50
60
70
80
90
100
110
120
Jul-15
Dec-15
May-16
Oct-16
Mar-17
Aug-17
Dec-17
May-18
Oct-18
Mar-19
Aug-19


Effluent-TN Concentration
mg/L
Daily Max
Mon Avg
An Avg
Date
0
50
100
150
200
250
300
350
400
450
22-Nov
10-Jun
27-Dec
15-Jul
31-Jan
18-Aug
6-Mar
22-Sep
10-Apr
27-Oct
15-May
1-Dec


Effluent-TN Annual Load
lbs/year
Date
5000
25000
45000
65000
85000
105000
125000
145000
Jan-16
Aug-16
Mar-17
Sep-17
Apr-18
Oct-18
May-19
Dec-19
Jun-20


Effluent-TP Concentration
mg/L
Daily Max
Mon Avg
An Avg
Date
0
20
40
60
80
100
120
140
160
May-15
Oct-15
Mar-16
Aug-16
Jan-17
Jun-17
Nov-17
Apr-18
Sep-18
Feb-19
Jul-19
Dec-19


Effluent-TP Mass Load
lbs/year
Date
1500
11500
21500
31500
41500
51500
61500
Mar-16
Aug-16
Jan-17
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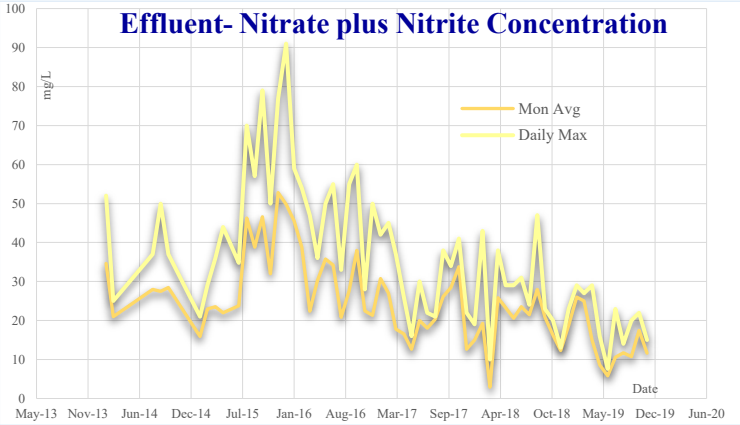
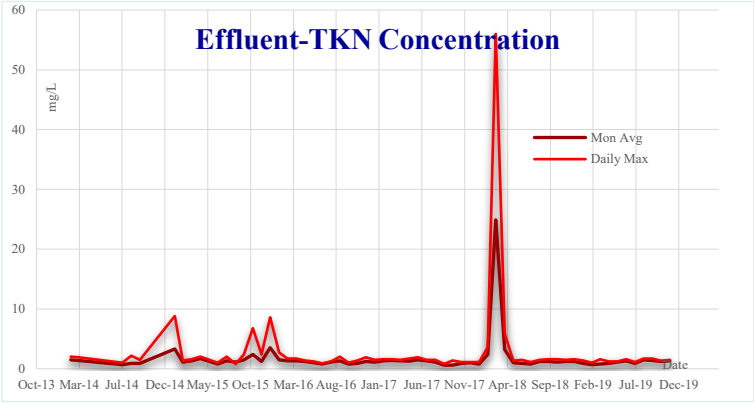
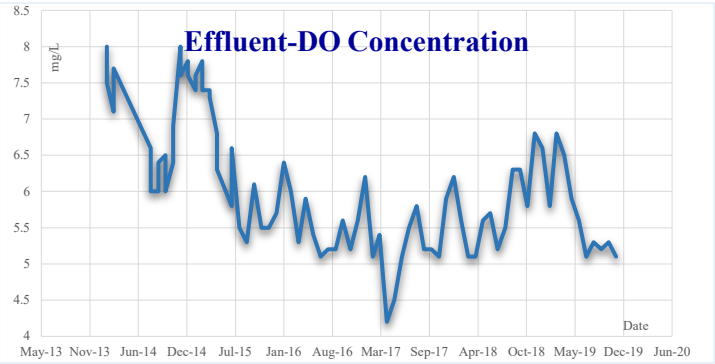
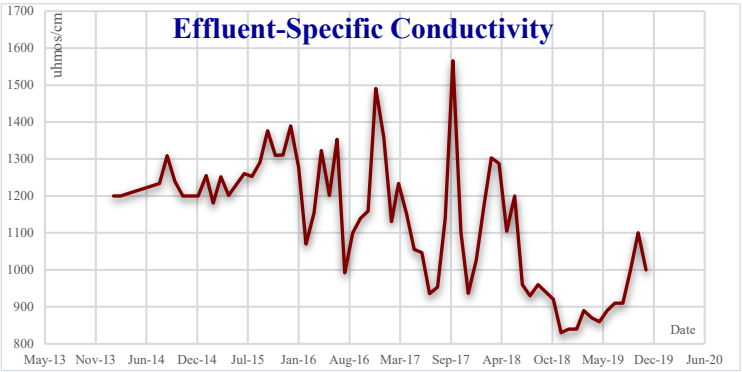
Nov-17
Apr-18
Sep-18
Feb-19
Jul-19
Dec-19









❖ Whole Effluent Toxicity Testing – Summary

The previous permit (effective 5/08/2015, expires 5/07/2020) requires quarterly chronic definitive testing of 24-hr FPC samples with freshwater species. 2 additional definitives if IC25 < 100% final effluent. The whole effluent toxicity testing results are summarized below:

Reported Date	***Ceriodaphnia dubia* (CD);** pass / fail / IC_{25}	***P.promelas (fathead minnow, FM)*; pass** / fail / IC_{25}
Feb. 29, 2020	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Dec. 31, 2019	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Oct. 30, 2019	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Aug. 31, 2019	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
June 30, 2019	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
April 30, 2019	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Feb. 28, 2019	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Dec. 31, 2018	CD tested unaltered. **CD fail IC25 = 70.38% effluent.**	FM pass IC25 > 100% effluent.
Oct. 31, 2018	CD tested unaltered. **CD fail IC25 = 52.12% effluent.**	FM pass IC25 > 100% effluent.

Reported Date	***Ceriodaphnia dubia* (CD);** pass / fail / IC_{25}	***P.promelas (fathead minnow, FM)*;** pass / fail / IC_{25}
Sept. 30, 2018	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Aug. 31, 2018	CD pass IC25 > 100% effluent.	**FM** fail IC25 < 72.1% effluent
June 30, 2018	CD pass IC25 > 100% effluent.	**FM** fail IC25 < 6.25% effluent
May 31, 2018	CD tested unaltered. **CD fail IC25 = 6.25% effluent**	
April 30, 2018	CD tested unaltered. CD fail IC25 = 67% effluent.	FM pass IC25 > 100% effluent. 100% survival in all dilutions.
Feb. 28, 2018	CD tested unaltered. CD fail IC25 = 52% effluent.	**FM** fail IC25 < 6.25% effluent!
Dec. 31, 2017	CD tested unaltered and with pH control in CO2 chamber. CD fail IC_{25} = 64% effluent. *CD fail* IC_{25} = **50**% *pH-CO_2.*	FM pass IC25 > 100% effluent.
Oct. 31, 2017	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Aug. 31, 2017	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
May 30, 2017	CD tested unaltered and with pH control in CO2 chamber. CD fail IC_{25} = 68% effluent. *CD fail* IC_{25} = **71**% *pH-CO_2.*	FM pass IC25 > 100% effluent.
Feb. 28, 2017	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Jan. 31, 2017	CD test ***only with*** pH control. *CD fail* IC_{25} = **85**% *pH-CO_2.* Survival 80%-100% both tests	Fish not tested
Dec 31, 2016	CD test ***only with*** pH control. *CD fail* IC_{25} = **53**% *pH-CO_2.* Survival 90%-100% in **50%** effluent and below with CO_2.	FM pass IC25 > 100% effluent.
Oct. 31, 2016	CD pass IC25 > 100% effluent.	Fish not tested
Sept. 30, 2016	CD test ***only with*** pH control. *CD fail* IC_{25} = **38**% *pH-CO_2.* Survival 90%-100% in **50%** effluent and below with CO_2.	FM pass IC25 > 100% effluent.
April 30, 2016	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Nov. 30, 2015	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
Sept. 30, 2015	CD pass IC25 > 100% effluent.	FM pass IC25 > 100% effluent.
July 31, 2015	CD pass IC25 > 100% effluent.	Fish not tested

b. Surface Water Discharge – Characteristics of the Receiving Waterbody

i. Point of Discharge

The final treated process wastewater, sanitary wastewater, floor drain wastewater, stormwater, non-process wastewater, once-through non-contact cooling water, and boiler blowdown is authorized to

discharge to Suwannee River at the D-001. The point of discharge is located approximately at latitude 30° 21' 56.1" N, longitude 81° 11' 29.64" W; Suwannee County, Florida

ii. Characteristics of the Receiving Waterbody

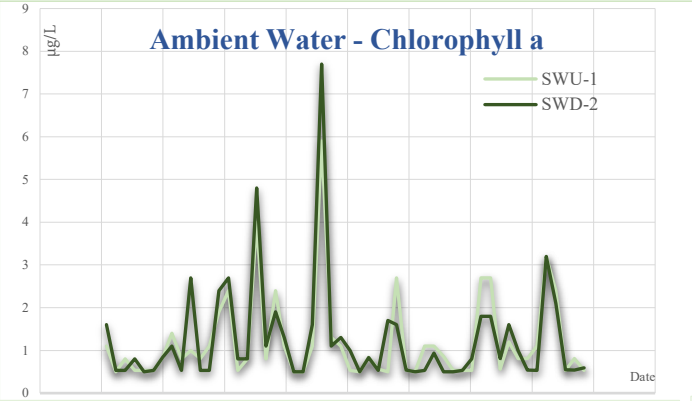
a) Background: The Suwannee River is the only major waterway in the southeastern United States that is still unspoiled (it has not been overly affected by human activities (e.g. damming, channeling, redirection, or the introduction of large quantities of contaminants).). The Suwannee flows from the Okefenokee Swamp in southern Georgia to the Gulf of Mexico in Florida. It winds for almost 266 miles through swamps, high limestone banks, hammocks of hardwood, and salt marshes. It also has fifty-five springs along the way. The river's limestone outcroppings and a drop-in elevation create Florida's only whitewater rapids at Little Shoals and Big Shoals located several miles upstream from the city of White Springs. The Suwannee River has been referred to as one of the most pristine and undeveloped river systems in the United States (Katz and Raabe, 2005), and has been designated an Outstanding Florida Water by the FDEP. Several protected natural areas are located within the basin, including 3 national wildlife refuges, 10 state parks or preserves, other public lands, and the Big Bend Seagrasses Aquatic Preserve (FDEP, 2001).

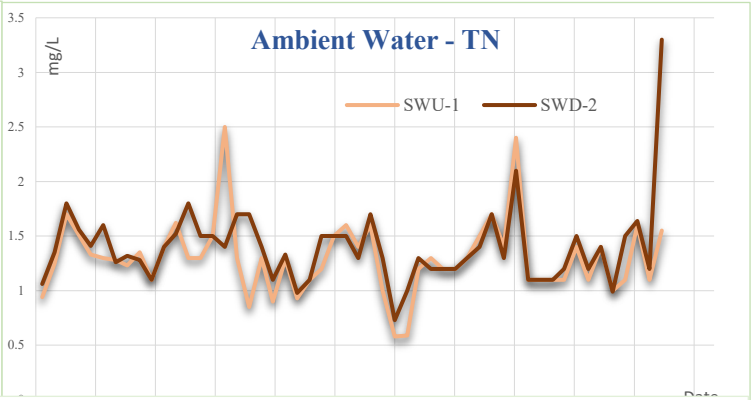
b) Water Qualities – Ambient Water Sampling Results Summary

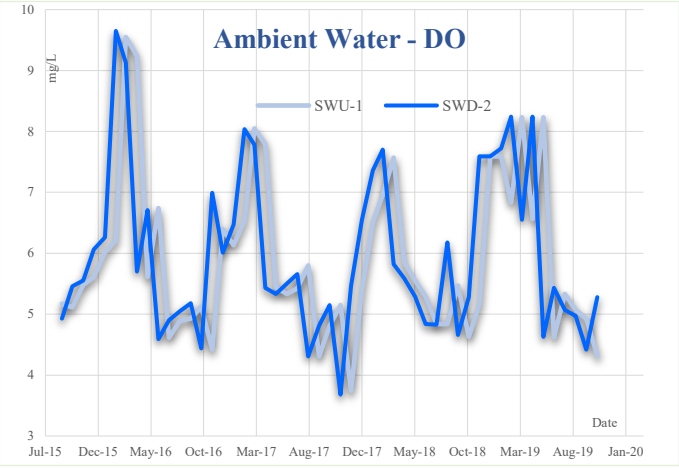
Pilgrim's Pride Live Oak Processing Plant has a surface water ambient monitoring program of which the ambient water upstream/downstream of the point of discharge is collected and analyzed to monitor for impact of the discharge to the receiving waterbody. The permittee has been monitored for DO, pH, Specific Conductance, Temperature, TKN, Total Ammonia, Nitrate plus Nitrite, Total Phosphorus, and Chlorophyll a at two different locations (upstream (SWU-2) and downstream (SWD-2) of the point of discharge. The ambient water monitoring results are summarized below:

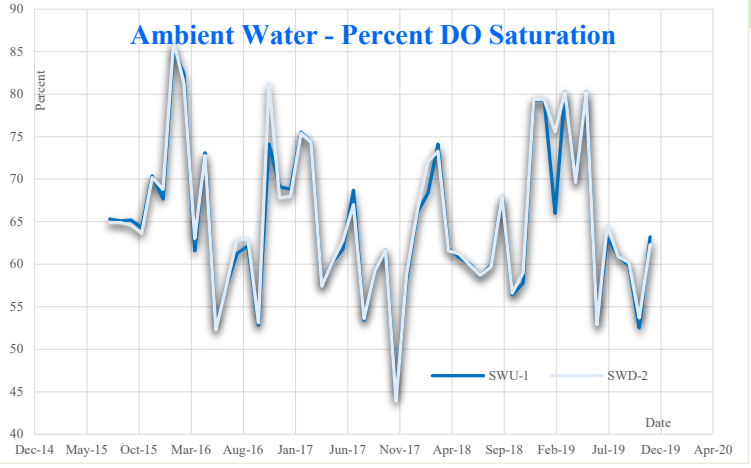
Parameter		Avg	Mod	Med.	95th P.	Max	Skew	Stand Dev.
Chlorophyll a *(µg/L)*	SWU-2	1.21	0.53	0.81	2.93	5.90	2.50	1.05
	SWD-2	1.26	0.53	0.81	2.93	7.70	3.37	1.25
Nitrate plus nitrite *(mg/L)*	SWU-2	0.55	0.70	0.51	1.15	1.80	1.46	0.37
	SWD-2	0.61	1.10	0.52	1.30	1.90	0.94	0.40
Nitrogen, ammonia, total *(mg/L)*	SWU-2	0.11	0.10	0.10	0.12	1.10	6.63	0.14
	SWD-2	0.11	0.10	0.10	0.15	1.20	5.63	0.17
Nitrogen, Kjeldahl, Total *(mg/L)*	SWU-2	0.75	0.95	0.79	1.15	1.60	0.20	0.29
	SWD-2	0.82	1.10	0.80	1.40	1.60	0.37	0.31
Nitrogen, Total *(mg/L)*	SWU-2	1.30	1.10	1.30	1.70	2.50	1.17	0.34
	SWD-2	1.40	1.50	1.34	1.80	3.30	2.76	0.37
Dissolved Oxygen *(mg/L)*	SWU-2	5.90	4.93	5.47	8.23	9.55	1.00	1.31
	SWD-2	5.95	5.28	5.49	8.24	9.65	0.92	1.33
DO, Percent Saturation, %	SWU-2	64.86	80.30	63.15	80.30	85.30	0.36	8.72
	SWD-2	65.31	60.20	63.30	80.75	86.20	0.32	8.97
Total, Phosphorus *(mg/L)*	SWU-2	0.15	0.20	0.15	0.23	0.30	-0.10	0.07
	SWD-2	0.23	0.13	0.17	0.59	1.20	2.71	0.21

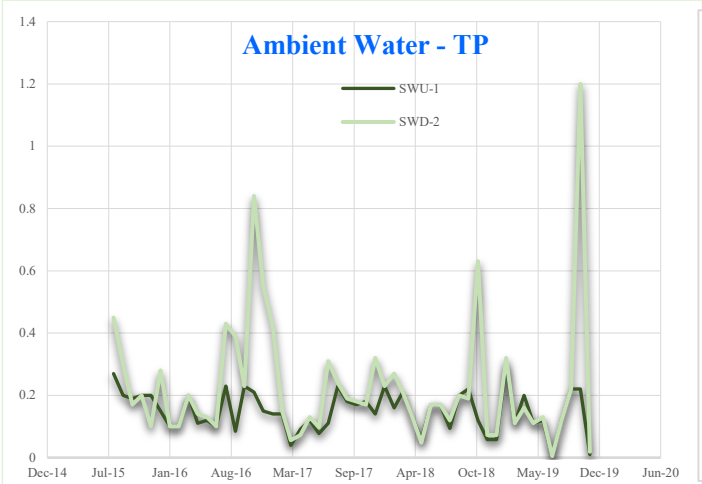
Parameter		Avg	Mod	Med.	95th P.	Max	Skew	Stand Dev.
Specific Conductance (µhmos/com)	SWU-2	217.19	244.00	230.50	354.45	390.00	-0.20	91.35
	SWD-2	223.58	337.00	231.50	382.05	412.00	-0.09	97.74
Temperature, Water, (ºC)	SWU-2	20.74	14.18	21.41	26.39	26.53	-0.61	4.54
	SWD-2	20.74	14.17	21.38	26.42	27.32	-0.58	4.56
pH (s.u.)	SWU-2	7.14	7.75	7.24	7.75	7.97	-0.96	0.53
	SWD-2	7.17	6.81	7.30	7.70	7.96	-1.16	0.48

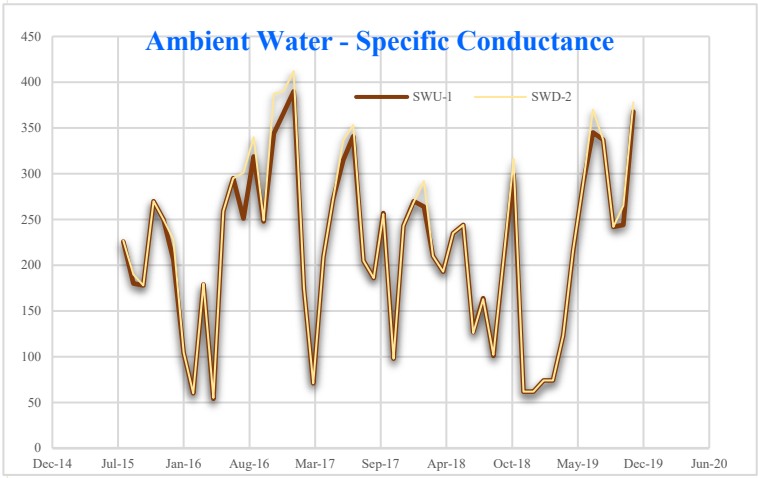












c) The 303(d) List – Impaired Parameter

The segment of receiving water body (WBID 3422B – Suwanee River – Lower Segment) and upstream water body segments for this facility are listed on the 303(d) list as being impaired for the following parameters:

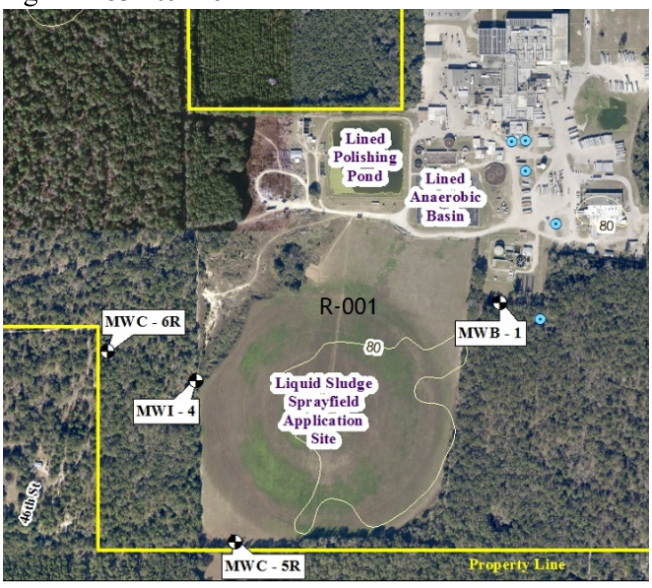
Basin / Segment Waterbody	**Northwest Upper Segment**		**Outfall D-001**		**Northeast Upper Segment**	
WBID	**3315 (Suwannee River – NW Upper Segment, Class 3F)**		**3422B (Suwannee River – Lower Segment, Class 3F)**		**3441 (Suwannee River – NE Segment, Class 3F)**	
River Length	**Approximate 20 miles NW of the POD**		**Segment Waterbody POD located**		**Approximate 21 miles NE of the POD**	
Agency	EPA 303(d)	FDEP 303(d)	EPA 303(d)	FDEP 303(d)	EPA 303(d)	FDEP 303(d)
Parameters of Concern	Mercury (in fish tissue)	None	Mercury (in fish tissue)	None	DO (organic enrichment), Mercury (in fish tissue)	Nutrient (Nitrate-Nitrite) (WBID 3341X)

d) Surface Water Improvement Management Plant

- Nutrient and Dissolved Oxygen TMDL for the Suwannee River, Santa Fe River, Manatee Spring (3422R), Fanning Spring (3422S), Branford Spring (3422J), Ruth Spring (3422L), Troy Spring (3422T), Royal Spring (3422U), and Falmouth Spring (3422Z) (September 24, 2008).
- Fecal Coliform TMDL for the Suwannee River Basin (August 2014).
- Statewide mercury TMDL has been established and adopted [62-304.900, FAC].
- Segment of Suwannee River is designated as an Outstanding Florida Water (OFW) (62-302.700(9), FAC). *(OFW is designated by the Environmental Regulation Commission as worthy of special protection because of their natural attributes.)*

c. Land Application – Reuse Water

An existing 0.040 MGD Maximum Daily Flow permitted capacity land application system consisting of 44-acre Liquid Sludge Sprayfield Application Site located approximately at latitude 30° 21' 54.23" N, longitude 83° 09' 46.21" W.



3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

a. Rules Basis:

This facility is authorized to discharge treated process wastewater, sanitary wastewater, floor drain wastewater, stormwater, non-process wastewater, once-through non-contact cooling water, and boiler blowdown from Outfall D-001 to Suwannee River based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	1.70	Daily Maximum	62-620.620(3)(f),62-620.320(6), 62-620.620(2)(d)&(e)
		Max	1.50	Monthly Average	62-620.620(3)(f),62-620.320(6), 62-620.620(2)(d)&(e)
BOD, Carbonaceous 5 day, 20C	mg/L	Max	15.0	Annual Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(12), 40 CFR Section 432.113 Subpart K (April 24, 1975)
		Max	18.0	Monthly Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(12), 40 CFR Section 432.113 Subpart K (April 24, 1975)
		Max	24.3	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(12), 40 CFR Section 432.113 Subpart K (April 24, 1975)
BOD, Carbonaceous 5 day, 20C	lb/day	Max	156	Monthly Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(12), 40 CFR Section 432.113 Subpart K (April 24, 1975)
		Max	211	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(12), 40 CFR Section 432.113 Subpart K (April 24, 1975)
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), 40 CFR Section 432.113 Subpart K (April 24, 1975)
		Max	25.5	Monthly Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), 40 CFR Section 432.113 Subpart K (April 24, 1975)
		Max	46.2	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), 40 CFR Section 432.113 Subpart K (April 24, 1975)
Solids, Total Suspended	lb/day	Max	221	Monthly Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), 40 CFR Section 432.113 Subpart K (April 24, 1975)
		Max	401	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g),

					40 CFR Section 432.113 Subpart K (April 24, 1975)
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Monthly Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(48)(a)&(b)
		Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(48)(a)&(b)
Nitrogen, Kjeldahl, Total (as N)	lb/day	Max	87	Monthly Average	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(48)(a)&(b)
		Max	130	Daily Maximum	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(48)(a)&(b)
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Single Sample	FAC Rule 62-620.620(3)(f), FAC Rule 62-620.320(3), FAC Rule 62-302.530(3)
Temperature (C), Water	Deg C	Max	Report	Single Sample	FAC Rule 62-620.620(3)(f), FAC Rule 62-620.320(6)
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	62-302.533 FAC
Nitrogen, Total	mg/L	Max	Report	Annual Average	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
		Max	Report	Monthly Average	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
		Max	Report	Single Sample	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
Nitrogen, Total	lb/yr	Max	114,245	Annual Total	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
	lb/mo	Max	Report	Monthly Total	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Monthly Average	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Single Sample	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
		Max	Report	Monthly Average	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
		Max	Report	Single Sample	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
Phosphorus, Total (as P)	lb/yr	Max	68,465	Annual Total	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
	lb/mo	Max	Report	Monthly Total	FAC Rules 62-302.530(47)(a)&(b), 62-302.531
Oil and Grease	mg/L	Max	5.0	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6) and 62-302.530(50)(a)&(b)
Mercury, Total Recoverable	µg/L	Max	0.012	Single Sample	FAC Rule 62-302.530(41), 62-304.900
Chlorine, Total Residual	mg/L	Max	0.01	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-302.530(19)
Coliform, Fecal	#/100mL	Max	200	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-302.530(6)
E. Coli	#100mL	Max	410	90th Percentile	62-302.530(6)(b), FAC

		Max	126	Monthly Geometric Mean	
pH	s.u.	Min	6.0	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-302.530(52)(c)
		Max	8.5	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-302.530(52)(c)
Specific Conductance	µmhos/cm	Max	1275	Single Sample	62-302.530, FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(12), 40 CFR Section 432.113 Subpart K (April 24, 1975)
Solids, Total Suspended	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), 40 CFR Section 432.113
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Ceriodaphnia dubia*)	percent	Min	100	Single Sample	FAC Rules 62-302.530(20) & (61), 62-620.620(3) and 62-4.241(1)(b) FAC
Chronic Whole Effluent Toxicity, 7-Day IC25 (*Pimephales promelas*)	percent	Min	100	Single Sample	62-302.530(20) & (61) FAC and 62-4.241(1)(b) FAC
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6), 62-620.620(2)(g), and 62-302.530(48)(a)&(b)
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Single Sample	FAC Rule 62-620.620(3)(f), FAC Rule 62-620.320(6), FAC Rule 62-302.530(3)
Temperature (C), Water	Deg C	Max	Report	Single Sample	FAC Rule 62-620.620(3)(f), FAC Rule 62-620.320(6)
Ammonia, Unionized (as NH3)	mg/L	Max	Report	Single Sample	FAC Rule 62-620.620(3)(f), FAC Rule 62-620.320(6), FAC Rule 62-302.530(3)
Oxygen, Dissolved (DO)	mg/L	Min	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
Oxygen, Dissolved Percent Saturation	percent	Min	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
Nitrogen, Total	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
Nitrite plus Nitrate, Total 1 det. (as N)	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
pH	s.u.	Min	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)
Specific Conductance	umhos/cm	Max	Report	Single Sample	FAC Rules 62-620.620(3)(f), 62-620.320(6)

b. <u>Discussions:</u>

- <u>Basis of the Permit Limitations</u>

Federal and state regulations require that effluent limits in an NPDES permit must be either technology – or/and water quality-based. Section 301(b)(1)(C) of the Clean Water Act (Act) requires that NPDES permits contain effluent limits more stringent than technology-based limits when necessary to meet water quality standards. Florida water quality standards (WQS) are composed of use classifications, numeric and/or narrative water quality criteria, and an anti-degradation policy. The use classification system designates the beneficial uses (such as water aquatic life, contact recreation, etc.) that each water body is expected to achieve. The numeric and/or narrative water quality criteria are the criteria deemed necessary by the Department to support the beneficial use classification of each water body. The anti-degradation policy represents a three-tiered approach to maintain and protect various levels of water quality and uses.
The limits in this permit are based in part on information received in the application, the wastewater characterization reported on the DMR, the results of the Department's sampling inspection and the receiving water body characterization. The effluent constituents in the application were evaluated on a technology-based and water quality-basis. The limits necessary to meet the rules and regulations of the State of Florida were determined and included in this permit. The Department does not develop effluent limits for all pollutants that may be reported on the application as present in the effluent. Some pollutants either are not treatable at the concentrations reported, are not controllable at the source, are not listed in regulation, or do not have a reasonable potential to cause a water quality violation. Effluent limits are not always developed for pollutants that may be in the discharge but not reported as present in the application. In those circumstances the permit does not authorize discharge of the non-reported pollutants. Effluent discharge conditions may change from the conditions reported in the permit application. If significant changes occur in any constituent, as described in 40 CFR 122.42(a), the Permittee is required to notify the Department.

- Design Criteria

Under the Florida Administrative Code, neither flows nor waste loadings may exceed approved design criteria. Design criteria, as system is currently operated, for this facility's treatment plant are presented below:

Parameter	Design Quantity	Basic
Flow Rate	1.70 MGD	Max Daily Flow
	1.50 MGD	MADF
Biochemical Oxygen Demand, 5-day (BOD5)	156 lbs/day	Monthly Average
	211 lbs/day	Daily Maximum
Solids, Total Suspended	221 lbs/day	Monthly Average
	401 lbs/day	Daily Maximum
Nitrogen, Kjeldahl, Total	87 lbs/day	Monthly Average
	130 lbs/day	Daily Maximum
Nitrogen, Total (as N), Load	114,245 lbs/year	Annual Total
Phosphorus, Total (as P)	68,465 lbs/year	Annual Total

i. Technology-Based Effluent Limits

The Federal and State of Florida imposes a requirement to provide all know available and reasonable methods of treatment.

The effluent limits for Pilgrim's Pride Live Oak Processing Plant are based on Best Conventional Pollutant Control Technology (BCT), Best Available Technology Economically Achievable (BAT), and Best Practicable Control Technology Currently Available (BPT) as developed by EPA. Pilgrim's Pride Live Oak Processing Plant currently generates wastewater from the production class identified in 40 CFR Part 432.110 – Poultry First Processing. (40 CFR Subpart K).

(1) Conventional pollutants

Conventional pollutants addressed in 40 CFR include 5-day biochemical oxygen demand (BODs), total suspended solids (TSS), fecal coliform, ammonia (as N) and oil & grease.

- Allowable Effluent Limitations addressed under Subpart K (**BPT/BAT** (40CFR§432.112 & §432.113))

Parameter	Daily Max	Monthly Max
5-day biochemical oxygen demand (mg/L)	26	16
Total Suspended Solids (mg/L)	30	20
Ammonia (as N) (mg/L)	8.0	4.0
Total Nitrogen (mg/L)	147.0	103.0
Fecal Coliform	400 MPN	-
Oil and Grease	14	8.0

- Current permitted limits for the conventional pollutants based on the surface water discharge permitted capacity of 1.7 MGD maximum daily flow and 1.5 MGD monthly average daily flow.

Parameter		Current Permit Limits	
		Daily Max	Monthly Max
5-day Carbonaceous Biochemical Oxygen Demand	*(mg/L)*	24.3	18.0
	(Lbs/day)	211.0	156.0
Total Suspended Solids	*(mg/L)*	46.2	25.5
	(Lbs/day)	401.0	221.0
Fecal Coliform	*(# /100 mL)*	200	-
Oil & Grease (*)	*(mg/L)*	5.0	-

- *Note(*): Effluent/final treated wastewater which discharges to Suwannee River shall meet limits listed in the 40 CFR §432.112 & §432.113 and the applicable rules of Florida Administrative Code, whichever is more stringent.*

  - 40 CFR§432. Subpart K (BPT/BCT) proposes the allowable maximum and monthly limits for **BOD5**. Whereas, the current limit includes maximum and monthly limits for **CBOD5**. (Note: *Although BOD is summation of CBOD (carbonaceous biochemical oxygen demand) and NBOD (nitrogenous biochemical oxygen demand), there are not*

any standard methods to convert/calculate BOD from CBOD.). The concertation limits and mass load limits for CBOD5 was established in the previous permit cycles. There is no evidence that the CBOD5 level in the effluent causes a negative effect to the segment of the waterbody. The concentration limits and mass-load limits are proposed to remain in the new permit.

- 40 CFR§432. Subpart K (BPT/BCT) proposes the allowable maximum and monthly concentration limits for TSS of 30.0 mg/L and 20.0 mg/L, respectively. Whereas, the current limit indicates maximum and monthly limits for TSS of 46.2 mg/L and 25.5 mg/L *(i.e. the permitted limits (both maximum and monthly average) for TSS were higher than the limits proposed in the 40 CFR Subpart K.)*. The current permit, however, includes maximum and monthly mass-load limits, which are lower than the maximum and monthly average allowable mass load limits which are calculated based on the permitted surface water discharge capacity of 1.7 MGD maximum daily flow and 1.5 MGD and allowable limits form 40 CFR Subpart K.

Max. Load Allowable Limit = 1.7 MGD × 30.0 $\frac{mg}{L}$ × 8.34 ($\frac{lbs}{mg}\frac{L}{MGD}$) = 425.34 lbs/day

Mon Avg Load Allowable limit = 1.5 MGD × 20.0 $\frac{mg}{L}$ × 8.34 ($\frac{lbs}{mg}\frac{L}{MGD}$) = 250.2 lbs/day

Although the permitted concentration limits were higher than the allowable limits, the permitted mass-load limits were lower than the allowable mass-load limits calculated from the permitted flow and allowable concentrations. In addition, the existing discharge does not appear to bring negative impact on the water quality (in terms of turbidity, suspended solids, etc.) of the segment waterbody. The concentration limits and mass-load limits for TSS are proposed to remain in the new permit.

- Although the allowable maximum daily limit (40 CFR§432 Subpart K) for fecal coliform can be up to 400 #/100 mL the current permitted limit for fecal coliform of 200 #/100 mL is proposed to remain in the new permit for protection of the OFW.

- Although the allowable maximum daily limit and month average limit (40 CFR§432 Subpart K) for oil & grease can be 14 mg/L and 8.0 mg/L, respectively, the current permitted limit for oil & grease of 5.0 mg/L based on requirement of Rule 62-302.530(50)(a) of the Florida Administrative Order, is proposed to remain in the new permit.

- Although the allowable maximum daily limit and month average limit (40 CFR§432 Subpart K) for ammonia (as N), the limitations are not applicable for the effluent discharge to Suwannee River. Instead of the total ammonia nitrogen limit, shall comply with the requirement of Rule 62-302.530(3), FAC, which will be discussed below.

- Although the allowable maximum daily limit and month average limit (40 CFR§432 Subpart K) for total nitrogen, the limitations are not applicable for the effluent discharge to Suwannee River. The discharge shall comply with the NNC required by Rule 62-302.531, FAC, which will discuss below.

- In Conclusion: The permit basically retains the existing/current permit limits for CBOD5, TSS, fecal coliform and oil & grease from the previous permit. In the future, if mass loading (i.e. production) increases above the currently limits, then Pilgrim's Pride Live Oak Processing Plant shall conduct anti-degradation analysis to evaluate impacts to the receiving water.

(2) Non-Conventional Pollutants:

The 40 CFR effluent guidelines do not specifically require limits for non-conventional pollutants. The Plant does not use chemicals containing non-conventional pollutants.

ii. Water Quality Based Effluent Limitation (WQBEL)

Pilgrim's Pride Live Oak Processing Plant, industrial treatment facility (SIC code of 2015, Meat and Poultry Products), is a category of discharger for which Water Quality Based Effluent Limitations (WQBEL) have been promulgated by Federal and State regulations. These regulations are performance standards that constitute all known available and reasonable assurance of prevention, control, and treatment for municipal wastewater.

In order to protect existing water quality and preserve the designated beneficial uses of Florida's surface waters, the discharge permits shall be conditioned such that the discharge will meet established Surface Water Quality Standards. The Florida State Surface Water Quality Standards (Chapters 62-302, 62-303, 62-304, 62-650 and all other applicable rules of Florida Administrative Code) are state regulation designed to protect the beneficial uses of the surface waters of the state.

(1) Facility-Specific Water Quality-based Limits

(a) Bacteriological Quality

(i) Fecal Coliform:

Limit for fecal coliform has been established based on the 40 CFR effluent guidelines (40 CFR. Part 432 – Subpart K). In additional, the wastewater stream includes sanitary wastewater; therefore, the effluent limit for fecal coliform is also required to meet the minimum basis disinfection per Rule 62-600.440.(5), FAC.

Data shows that the discharge has complied with the permit limit and does not have a negative impact to the receiving waterbody.

The permit retains the existing/current permit limit for fecal coliform from the previous permit. In the future, if mass loading (i.e. production) increases above the currently limits, then Pilgrim's Pride Live Oak Processing Plant shall conduct anti-degradation analysis to evaluate impacts to the receiving water.

(ii) Escherichia coli Bacteria (E. Coli):

- New water quality criteria in Rule 62-302.530, FAC has been revised and adopted to include Escherichia coli Bacteria. Limits for E. coli in fresh water has been established based on Rule 62-302.530(6)(b), FAC.
- Because there is no well-established relationship between fecal coliform and E. coli bacteria, limitations based on both the basic disinfection standards for fecal coliform from subsection 62-600.440(5), F.A.C., and based on the bacteriological water quality standards for E. coli for discharges to Class III predominately fresh waters under Rule 62-302.530, F.A.C., have been included in the permit.

(b) Dissolved Oxygen:

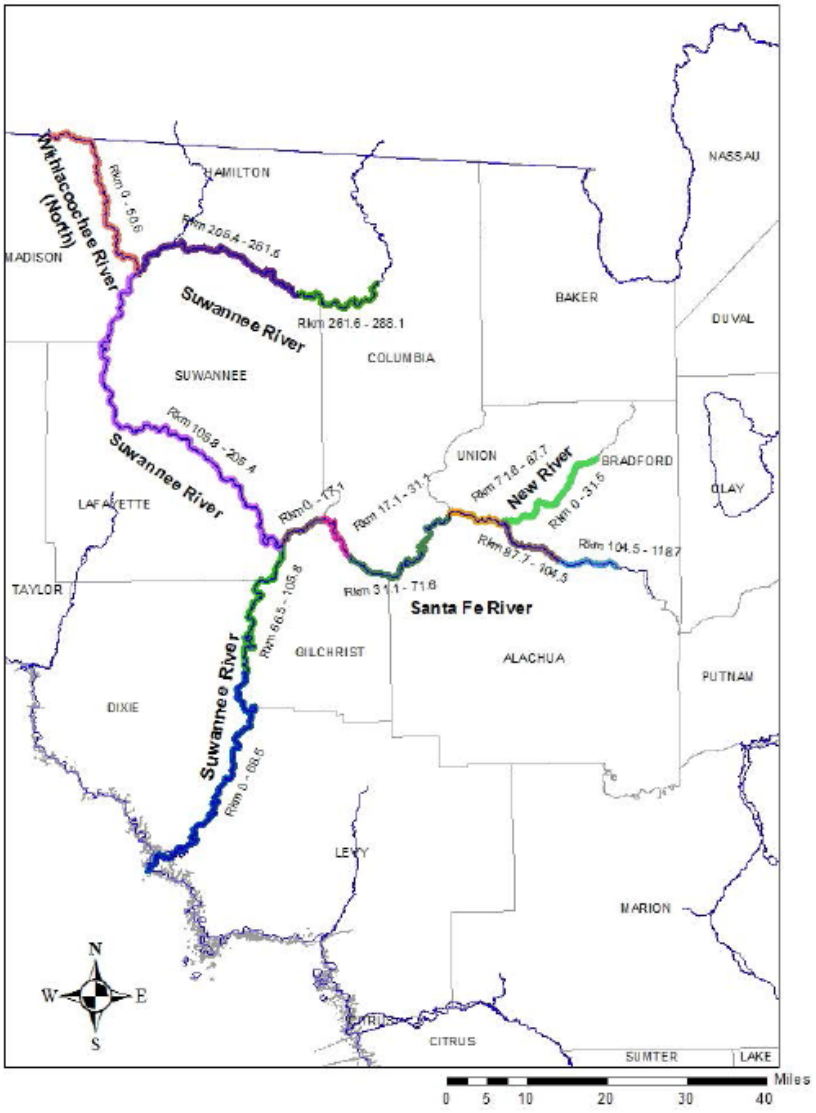
- Stream health is directly related to dissolved oxygen (DO) level which is an important water quality parameter that influences the living conditions of all aquatic organisms that require oxygen. Sources of dissolved oxygen in the waterbody include re-aeration from the atmosphere, photosynthesis by aquatic plants, dissolved oxygen in the effluent and/or in coming tributaries. In the waterbody, dissolved oxygen is consumed due to oxidation of carbonaceous waste, oxidation of nitrogenous waste (nitrification), demand by sediments, and the respiration of aquatic plants. However, the permit limit is listed a water quality limit in 62-302.530(30). The facility effluent will be monitored for DO.
- In Sep 24, 2013, EPA approved the Water Quality Standard for DO which was specified in Rule 62-302.533, FAC, whereby no more than 10% of the daily average % DO Saturation value in the receiving waters shall be below 34% (applicable to the Big Bend and Northeast bioregions), in order to maintain healthy freshwater aquatic populations and protect the designated use classifications. A map of the bioregions is contained in SCI 1000: Stream Condition Index Methods (DEP-SOP-003/11 SCI 1000) (http://www.flrules.org/Gateway/reference.asp?No=Ref-02959, which is incorporated by reference in Rule 62-160.800, F.A.C..
- Examine whether the discharge would meet the requirements of Chapter 62-302.533, FAC
  - Define whether discharge from Pilgrim's Pride Like Oak Processing Plant would affect DO level of the receiving water (Define whether the existing DO conditions are maintained):
    - Define the worst-case scenario: Because the saturation concentration of DO in water is negatively related to both water temperature and salinity/conductance, the most protective permit limits (expressed as DO concentration in mg/L) could be derived using the lowest temperature observed in the monitoring data summarized in the above table. Based on the available data *(DMR: January 2014 to December 2019),* the combined lowest temperature and specific conductance observed is 10.24°C and 54 µmho/cm, respectively. Assuming the worst case, based on a review of the ambient data from the applicant and the DEP data set, the lowest temperature and specific conductance levels from the Data can be used to determine the maximum DO saturation for the water. This will then be used to calculate the daily average effluent permit limits such that at all times throughout the year (winter to summer) the facility will meet the intent of the DO rule criteria for marine waters (62-302.533(1)(a) FAC).
    - Define Minimum DO Concentrations in the worst case scenario: By calculating the DO saturation concentration at 10.24°C, 54.0 µmho/cm, and 1 atmosphere pressure in accordance with the methodology specified in Rule 62-303.320(11) using the Departments' DO saturation calculator found at http://www.dep.state.fl.us/water/wqssp/docs/do_saturation_calculator.xlsm, results in a saturation concentration of 11.22 mg/L.
      Therefore, the minimum DO concentrations for the worst-case scenario is calculated as: 11.22 mg/L x 34.0% = 3.81 mg/L.

- The critical DO value in the receiving waterbody must be greater than 3.81 mg/L in order to ensure compliance with the daily average DO criteria specified in Rule 62-302.533(1)(a), F.A.C. As illustrated in the data summary, the facility's effluent discharge characteristics (effluent CBOD, TKN levels) indicate the current 5.0 mg/L effluent DO permit limitation is adequately protective of the receiving water body and more restrictive than the new DO criteria. This is evidenced by the minimum reported effluent DO level of 4.2 mg/L over the January 2015 – December 2019 period, a concentration which would correspond to 37.43% DO saturation in receiving waters under the worst-case scenario modeled above.

  Specific Dissolved Oxygen Requirements for the Gulf Sturgeon. The Middle segment of the Suwannee River serves as a critical habitat for the Gulf Sturgeon. The Gulf Sturgeon was listed as a threatened species under the Endangered Species Act (ESA) on September 30, 1991 (Federal Register, Vol. 56, No. 189, September 30, 1991), with the critical habitat areas being finalized in March 2003. Two sturgeon species occurring in Florida (*i.e.,* Gulf sturgeon, *Acipenser oxyrinchus desotoi* and short-nose sturgeon, *Acipenser brevirostrum*) have been shown to be particularly sensitive to low oxygen levels (Wakeford 2001) and are provided special consideration due to their listing as threatened and endangered, respectively, under the Endangered Species Act (ESA).
  The purpose of the ESA passed by Congress in 1973 is to protect and promote recovery of imperiled species and the ecosystems upon which they depend. To accomplish this objective, the ESA affords additional protection to threatened and endangered species to prevent: 1) damage to, or destruction of, a species' habitat; 2) overutilization of the species for commercial, recreational, scientific, or educational purposes; 3) disease or predation; 4) inadequacy of existing protection; and 5) other natural or manmade factors that affect the continued existence of the species. During their review of the proposed freshwater DO criteria, FWS and NMFS determined that four endangered species may <u>not</u> be fully protected by the proposed DO criteria. The sturgeon are most sensitive to low DO levels during their early life stages. As the Gulf and shortnose sturgeon mature and become less sensitive to low DO, they migrate downstream to brackish and marine waters (McEnroe and Cech 1987).

  In portions of the Suwannee, New, and Santa Fe Rivers inhabited by the Gulf Sturgeon and Oval Pigtoe mussel, the proposed DO criteria of Chapter 62-302.533(1)(a), F.A.C., are modified to assure that the sturgeon and mussel are fully protected. The critical habit areas for the Gulf Sturgeon are shown in the figure below:

The current permit effluent limitation for DO of 5.0 mg/L is shown to maintain the existing DO conditions in the affected portions of the Suwannee River inhabited by the Gulf Sturgeon. However, any new or expanded discharges from the Pilgrim's Pride Live Oak Processing facility to the Suwannee River segment from 105.8 km – 205.4 km, shall be subject to demonstrating DO levels in the receiving water shall not be lowered such that more than 50 percent of values are below 69% DO saturation or more than 10 percent of the daily average values are below 53.3% DO saturation.



(c) Total Ammonia Nitrogen (TAN)

- The Class III freshwater standard of 0.02 mg/L for unionized ammonia has been replaced by the Total Ammonia Nitrogen (TAN). The new TAN criteria have been adopted by the Florida Environmental Regulation Commission and became effective for state purposes on 02/17/2016. The new TAN criteria also have been approved by USEPA.
- As required by Rule 62-302.530(11)(c), FAC, the 30-day average TAN value shall not exceed the average of the values calculated from the following equation, with no single value exceeding 2.5 times the value from the equation:

$$\text{TAN (Criterion)} = 0.8876 \times \left(\frac{0.0278}{1+10^{7.688-pH}} + \frac{1.1994}{1+10^{pH-7.688}}\right) \times \left(2.126 \times 10^{0.028\times(20-\max(T))}\right)$$

Where:

- T (effluent temperature in degrees Celsius) and effluent pH are paired measurements associated with the effluent total ammonia sample, i.e. monitored at the same time and location as the effluent total ammonia sample.
- MAX (T,7) means that the temperature value included in the equation should be the actual measured temperature ("T") in degrees Celsius (°C), or 7°C, *whichever is greater*.
- pH must be in the range of 6.5 to 9.0. In the TAN criterion calculation, the pH shall be set at 6.5 for effluent pH <6.5 and set at 9.0 for effluent pH >9.0.
- Effluent shall be monitored for pH and temperature at the same time and location as effluent total ammonia.

Excel Spreadsheet calculations of TAN criterion (Total Ammonia Nitrogen Criteria Calculator) is available using the below link:

https://www.dep.state.fl.us/WATER/wqs/docs//TAN-CriteriaCalculator.xlsm

- Calculate TAN Limits:
  - Monthly Average TAN Limit = Arithmetic Average TAN Criterion Values of the Month $= \frac{\sum TAN\ Criterion\ Value}{\sum No.\ of\ values}$
  - Single Sample TAN limit = 2.5 x Calculated TAN Criterion Value
- Determine TAN Compliances with the Limits:
  - Monthly Avg TAN Compliance = Mon Avg. TAN Effl. – Mon Avg. TAN Limit ≤ 0.0
  - Single Sample TAN Compliance = Single Sample TAN Effl. – Single Sample TAN Limit ≤ 0.0
- The 30-day Average value is equivalent with the chronic criterion, which are shown on the Aquatic Life Ambient Water Quality Criteria For Ammonia – Freshwater 2013, published by U.S. Environmental Protection Agency, Office of Water. The document can be downloaded using the below link:

  https://www.epa.gov/sites/production/files/2015-08/documents/aquatic-life-ambient-water-quality-criteria-for-ammonia-freshwater-2013.pdf

(d) Total Kjeldahl Nitrogen: Mass limits for TKN has been established in the previous permits. The limit shall remain in the new permit.

(e) Narrative Nutrient Criterion and Nutrient Load

- The numeric nutrient criteria (NNC) has been adopted
  The segment of Suwannee River where the discharge is located is required to meet the narrative water quality criterion for nutrients in Rule 62-302.531(2) (c), F.A.C., which are:
  - Biological Assessment: Biological information which includes chlorophyll a levels, algal mats, macrophyte growth, and changes in algal species composition indicates there are no imbalances in flora or fauna.

- Stream Condition Index: The average score of at least two temporally independent SCIs performed at representative locations and times is 40 or higher, with neither of the two most recent SCI scores less than 35, or

- Nutrient Thresholds (Suwannee River/North Central): The nutrient (TN and TP) thresholds (the annual geometric means 0.30 mg/L for TP and 1.87 mg/L for TN) of the segment waterbody (Panhandle East) shall not exceed more than once in any three calendar year period.

- Water Qualities of the segment of the Suwannee River of which the discharge is located:
  - While the segment of Suwannee River (WBID 3422B) has yet to be formally assessed under the Impaired Waters Rule (Chapter 62-303, F.A.C.), the segment waterbody deemed to be relatively healthy with respect to nutrients at the current time.
  - Ambient Water Monitoring:
    - The permittee has monitored on a monthly basis for the ambient water quality of the segment waterbody near the point of discharge (POD) at two locations: SWU-2 and SWD-2. The sample results for TN, TP, and Chlorophyll a are summarized the table below:

Parameter	Station	Avg	Mod	Med.	95th Per.	Max	Skew	Stand Dev.
Nitrogen, Total *(mg/L)*	SWU-2	1.30	1.10	1.30	1.70	2.50	1.17	0.34
	SWD-2	1.40	1.50	1.34	1.80	3.30	2.76	0.37
Total, Phosphorus *(mg/L)*	SWU-2	0.15	0.20	0.15	0.23	0.30	-0.10	0.07
	SWD-2	0.23	0.13	0.17	0.59	1.20	2.71	0.21
Chlorophyll-a *(µg/L)*	SWU-2	1.21	0.53	0.81	2.93	5.90	2.50	1.05
	SWD-2	1.26	0.53	0.81	2.93	7.70	3.37	1.25

    - Annual Geometric Mean of segment of Waterbody Near the Outfall D-001

	Annual Geometric Mean								
Parameter	TP (mg/L)			TN (mg/L)			Chlorophyll-a (µg/L)		
NNC Criteria	0.30 mg/L			1.87 mg/L			≤3.2 µg/L (Healthy)		
Station / Year	SWU-2	SWD-2	Combined	SWU-2	SWD-2	Combined	SWU-2	SWD-2	Combined
2019	0.083	0.109	0.095	1.23	1.41	1.31	0.983	0.920	0.951
2018	0.123	0.152	0.136	1.27	1.30	1.28	0.928	0.841	0.884
2017	0.129	0.158	0.142	1.16	1.26	1.21	0.977	1.075	1.025
2016	0.139	0.234	0.180	1.41	1.42	1.39	1.148	1.192	1.168
2015	0.198	0.224	0.211	1.31	1.44	1.38	0.635	0.676	0.655

Ambient water data indicates that the segment waterbody has complied with the nutrient threshold. There was no evidence of adverse effects apparent by the current discharge to the segment of the River.

- Biological Integrity Assessments: The Stream Condition Index (SCI), the Rapid Periphyton Survey (RPS), and the Linear Vegetation Survey (LVS) to have been conducted to characterize floral and faunal health of the segment waterbody:
  - Stream Condition Index (SCI):
    Two independent SCI sampling events required during the study period (December 8, 2015 and July 7, 2016). The SCI scores for both sampling dates yielded ratings of good rating for each station.

	Overall Taxa Score			
Station	SWD-1 West	SWD-1 East	SWU-1 West	SWU-East
December 8, 2015	96.06	86.94	66.46	76.56
July 7, 2016	76.68	74.92	65.71	69.61

  - Rapid Periphyton Survey (RPS)

    Rapid Periphyton Surveys were performed on November 4, 2015 and June 23, 2016. Compliance with the RPS requires that less than 20% of the 99 points assessed exhibit algal growth that score 4, 5 or 6 on the scale developed by the FDEP. For the 2015 event (downstream station only), the score was 2% and the flow was at median value for the date (approximately 2,200 cfs). For the 2016 RPS event, the downstream station scored 18.2% while the upstream station scored 10%. The flow on the 2016 date was slightly below median with a discharge of approximately 2,250 cfs.

  - Linear Vegetation Survey (LVS)

    Natural characteristics of the Suwannee River within the assessment area preclude the development of the type of vegetation the LVS is designed to evaluate (i.e., aquatic macrophytes) and none have been observed at either the upstream or downstream stations (based upon the LVS events and all monthly sampling events).

- Conclusion:

  The portion of WBID 3422B of the Suwannee River above and below the Pilgrim's Pride Live Oak Processing Plant's point of discharge is in compliance with all aspects of the NNC rule. Numeric AGM values for both TN and TP met the criteria and the AGM values for Chlorophyll a are within the "healthy" category.
  Results from the Biological Integrity sampling event combined with the two temporarily independent SCI and RPS events that passed the established thresholds, support the conclusion that the Pilgrim's discharge is not adversely impacting the aquatic flora and fauna of the Suwannee River at this location.

- For the Discharge in the future: Since the segment of the River (WBID 3422B) is considered a healthy waterbody. The effluent discharging from Pilgrim's Pride Live Oak Processing Plant is allowable at current loading levels (hold-the-line).
- Hold-The-Line Mass Load Calculations:

Retain the mass load limits for TN and TP which were established in the previous permit.

- TN Mass Load Limit:

  The TN mass load limit has been established based on the permitted discharge capacity of 1.47 MGD average daily flow and average concentration of TN of 25.53 mg/L:

  Annual TN load = Flow (MGD) x (TN ($\frac{\text{mg}}{\text{L}}$) x 8.34 ($\frac{\text{L}}{\text{MG}}\frac{\text{Lbs}}{\text{mg}}$) x 365($\frac{day}{yr}$)

  Annual TN load = 1.47 MGD x 25.53 ($\frac{\text{mg}}{\text{L}}$) x 8.34 ($\frac{\text{L}}{\text{MG}}\frac{\text{Lbs}}{\text{mg}}$) x 365($\frac{day}{yr}$) = 114,245lb/yr

- TP Mass Load Limit:

  The TP mass load limit has been established based on the permitted discharge capacity of 1.47 MGD average daily flow and 75th percentile concentration of TP of 15.4 mg/L:

  $\text{Annual TP Load} = 1.47\ \text{MGD} * \left(15.4\frac{\text{mg}}{\text{L}}\right) * 8.34\ (\frac{\text{L}}{\text{MG}}\frac{\text{Lbs}}{\text{mg}}) * \ 365\frac{day}{yr} = 68{,}464.85$ lb/yr

- Based on the calculations, the annual total mass load limits for TN and TP shall be 114,245 lbs/year and 68,464.85 lbs/year, respectively.

  The annual total mass load is computed using a rolling twelve (12) – month period. The calculation shall be the sum of the twelve most recent monthly mass loadings of total nitrogen or total phosphorus. The monthly mass loading shall be calculated as follows:

  ML (Lbs/Month) = (Flow ($\frac{\text{MG}}{\text{Mon}}$)) x (TN ($\frac{\text{mg}}{\text{L}}$) or TP ($\frac{\text{mg}}{\text{L}}$))x 8.34 ($\frac{\text{L}}{\text{MG}}\frac{\text{Lbs}}{\text{mg}}$)

  Where:

ML	=	Monthly mass load of total nitrogen or total phosphorus (Lbs/month)
Flow	=	Monthly volume of effluent discharged from Outfalls D-001 (MG)
TN	=	Monthly Average Concentration of TN monitored at EFF-1 (mg/L)
TP	=	Monthly Average Concentration of TP monitored at EFF-1 (mg/L)

- Future Action:

  - The permittee shall continue to conduct the ambient water sample (water quality and biological integrity assessments) to confirm that the discharge will not is not adversely impacting the aquatic flora and fauna of the Suwannee River at this location.

  - Permit includes a "re-opener clause" which is:

    The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345, F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:

- Contains different conditions or is otherwise more stringent than any condition in the permit/or;
- Controls any pollutant not addressed in the permit;
- The permit as revised or reissued under this paragraph shall also contain any other requirements of the Act then applicable.
- The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement;

➢ The Department or the EPA may develop a Total Maximum Daily Load (TMDL) during the life of the permit. Once a TMDL or new water quality standards have been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL or water quality standards. Changes may include proposed or promulgated EPA Nutrient Numeric and would include an opportunity for an administrative notice process.

(f) Nitrate Plus Nitrite

The Nitrate-N TMDL WLA for the Suwannee River downstream of the confluence with the Withlacoochee River is not applicable for wastewater sources, per Rule 62-304.405(2)(a), F.A.C. Therefore, since the nitrate Wasteload Allocation is not applicable for wastewater sources, limitation for nitrate is not established. The Permittee, however, is required to monitor and report for nitrate plus nitrite presented in the discharge.

(g) Mercury:

A statewide Total Maximum Daily Load (TMDL) for mercury has been established.[4] Pursuant to Rule 62-304.900, F.A.C., industrial wastewater discharges, other than once-through cooling waters at industrial wastewater facilities and those sources covered under subsection 62-304.900(2), F.A.C., that demonstrate quantifiable mercury (total) levels in their effluent (using clean techniques, such as EPA Method 1631E) are required to prepare and implement a mercury minimization plan addressing sources of mercury.

According to Application Form 2CS Item VII Part C, the applicant has indicated that mercury is "believed to be absent" in the facility's discharges to surface waters. Therefore, the permittee is not required to develop a mercury minimization plan since mercury at quantifiable levels may be absent from the discharge. However, since the receiving waterbody is presently impaired for mercury and a mercury TMDL is in place, the permittee shall be required to conduct effluent monitoring for total recoverable mercury for discharges to Suwannee River to provide reasonable assurance of the absence of mercury at quantifiable levels.

(h) Others Heavy Metals:

Data presented in Parts B and C of the Application Form 2CS indicates either the metals are believed absent or believed present at concentrations which are complied with the Water Quality Standards. Heavy metals are not proposed to be monitored in this permit.

(i) Volatile Organic Compounds:

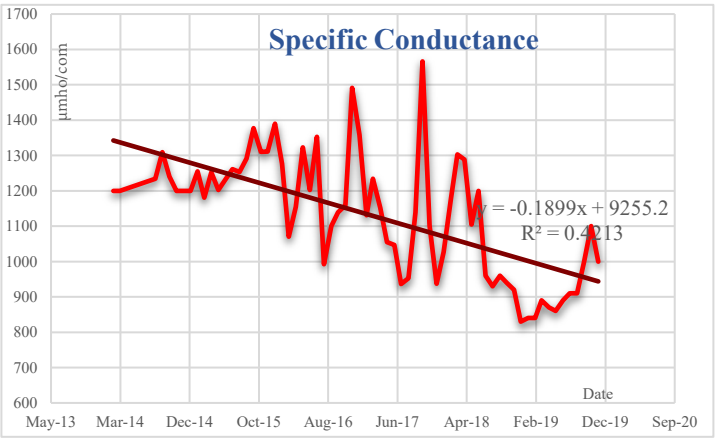
Data presented in Parts B and C of the Application Form 2CS indicates either the VOC are believed absent or believed present at concentrations which are complied with the Water Quality Standards. VOC are not proposed to be monitored in this permit.

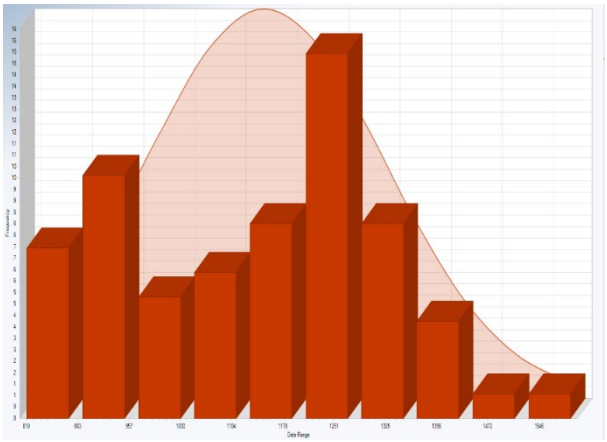
(j) Specific Conductance:

The discharge has historic challenges to meet the water quality criterion for specific conductance. The permittee has monitored to specific conductance, and the sample results are summaries below:

	Specific Conductance (µmho/com)				
Number Observation	Minimum	Maximum	Mean	Geo-Mean	SD
65	830	1566	1131	1117	172.7

	Percentile								
Number Observation	10th	20th	25th	50th	75th	80th	90th	95th	99th
65	898	939.4	960	1154	1253	1279	1318	1373	1518





Data shows the specific conductance trends downward. In the last 20 months (since April 2020), the data has been monitored and complies with the water quality criterion for specific conductance.

(2) Conclusion:

The level I -WQBEL was conducted based the information received in the application, the wastewater characterization reported on the DMR, the results of the Department's sampling inspection and the receiving water body characterization. The effluent constituents in the application were evaluated on a technology-based and water quality-basis. The limits necessary to meet the rules and regulations of the State of Florida were determined and included in this permit.

2) Numerical Criteria for protection of Aquatic Life and Recreation

Numerical water quality criteria are listed in the water quality standards for surface waters (Chapter 62-302.530, FAC). They specify the maximum levels of pollutants allowed in receiving water to protect aquatic life and recreation in and on the water. The Department uses numerical criteria along with chemical and physical data for the wastewater and receiving water to derive the effluent limits in the

discharge permit. When surface water quality-based limits are more stringent or potentially more stringent than technology-based limits, the discharge must meet the water quality-based limits.

(a) Floating, Suspended or Submerged Matter/Oil and Grease:
The Florida Water Quality Standards (Chapter 62-302.500(1), FAC) require surface waters of the State to be free from floating, suspended or submerged matter of any kind in concentrations causing nuisance or objectionable conditions that may impair designated beneficial uses. A narrative condition is proposed for the permit that states there must be no discharge of floating solids or visible foam or oil and grease other than trace amounts.

(b) Whole Effluent Toxicity (WET):

- Under Section 301(b)(1)(C) of the CWA, discharges are subject to effluent limitations based on water quality standards. The Florida Surface Water Quality Standards include the following narrative statement and requires that EPA criteria established pursuant to Section 304(a)(1) of the CWA be used as guidance for interpretation of the following narrative criteria: All surface waters shall be free from pollutants in concentrations or combinations that are toxic to humans, aquatic life or wildlife.

- In order to provide reasonable assurance that the discharge will not adversely affect the designated use of the receiving water, whole effluent toxicity testing is required. In accordance with requirement of Rule 62-620.620(3)(b), FAC, the facility is required to conduct chronic definitive tests starting with 100% effluent using a minimum of five dilution concentrations.

- WET is conducted with fresh water species which include the *Ceriodaphnia dubia*, and *Pimephales promelas*.

  In 2018, the permittee initiated a Plan for Toxicity Correction. Chlorination was chosen based on TIE studies in late 2018 which indicated a biological or bacterial cause of toxicity, instead of ions or chemical constituents.

  Records show that after initiating the Plan for Toxicity Correction, the Pilgrim's Pride Live Oak Plan has passed 7 consecutive WET tests. If the 8th WET test passes, the WET testing frequency can be reduced to semi-annually.

3) Numerical Criteria for the Protection of Human Health

The U.S. EPA has published 94 numeric water quality criteria for the protection of human health that are applicable to dischargers in Florida State (EPA, June 2015) (Appendix III). These criteria are designed to protect humans from exposure to pollutants linked to cancer and other diseases, based on consuming fish and shellfish and drinking contaminated surface waters. The water quality standards also include radionuclide criteria to protect humans from the effects of radioactive substances.

Data shows that the discharge does not exceed the water quality criteria for the protection of human health. Therefore, effluent limits are not required for these parameters.

4) Other:

In order to protect existing water quality and preserve the designated beneficial uses of Florida's surface waters, the NPDES discharge permits shall be conditioned such that the discharge will meet established Surface Water Quality Standards (WQS). The State of Florida surface water quality standards (Chapter 62-302, FAC) is a state regulation designed to protect the beneficial uses of the surface waters of the state. In

order to provide reasonable assurance that the discharge will not adversely affect the designated use of the receiving water, chronic whole effluent toxicity testing is required.

5) Conclusion:

The facility has provided reasonable assurance that the discharge will not adversely affect the designated use of receiving water. DEP inspection data, as well as all other available data, have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards.

4. INDUSTRIAL SLUDGE MANAGEMENT REQUIREMENTS

This facility is authorized to discharge sludge to Land Application System R-001, a 44-acre liquid sludge sprayfield, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Monthly Average Hydraulic Loading	MGD	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Daily Maximum Hydraulic Loading	MGD	Max	0.040	Daily Maximum	62-620.320(6) F.A.C.
Total Nitrogen	lb/ac/yr	Max	450	Annual Total	62-620.320(6) F.A.C.
Cadmium	lb/ac	Max	4.4	Annual Total	62-620.320(6) F.A.C.
Copper	lb/ac	Max	125	Annual Total	62-620.320(6) F.A.C.
Lead	lb/ac	Max	500	Annual Total	62-620.320(6) F.A.C.
Nickel	lb/ac	Max	125	Annual Total	62-620.320(6) F.A.C.
Zinc	lb/ac	Max	250	Annual Total	62-620.320(6) F.A.C.
Solids, Total, Sludge, Percent	percent	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
pH	s.u.	Max/Min	Report	Daily Maximum	62-620.320(6) F.A.C.
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Lead, Dry Weight, Sludge	mg/kg	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Nickel, Dry Weight, Sludge	mg/kg	Max	Report	Daily Maximum	62-620.320(6) F.A.C.
Zinc, Dry Weight, Sludge	mg/kg	Max	Report	Daily Maximum	62-620.320(6) F.A.C.

5. GROUNDWATER MONITORING REQUIREMENTS

Groundwater monitoring of land application system R-001 has been established in accordance with Rule 62-520.600, F.A.C. Monitoring is comprised of four wells with a quarterly sampling frequency.

New with this permit is a correction to the facility's groundwater zone of discharge (ZOD). The ZOD was previously described in wastewater permits as extending "100 feet from the application site . . . ", however the timeframe of the initial permitted discharge and associated groundwater monitoring (circa 1982) reveals the facility to be "existing" pursuant to 62-520.200(10) and 62-520.465(1), F.A.C. This change further confers a "limited" exemption from secondary water quality standards pursuant to 62-520.520(1), F.A.C.

No other substantive changes in groundwater monitoring have been made from the previous permit.

6. PERMIT SCHEDULES

a. The following improvement actions shall be completed according to the following schedule. The Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit.

Improvement Action	Completion Date
Continue implementing the existing BMP Plan	Effective date of permit

7. BEST MANAGEMENT PRACTICES / STORMWATER POLLUTION PREVENTION PLANS

As stated in Section VII of the permit, a Best Management Practices (BMP) Plan is required for the facility, pursuant to Rule 62-620.100(m), F.A.C., and 40 CFR Part 122.44(k). The plan provides a facility-specific approach for the minimizing of pollutant discharge from ancillary activities.

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

a. The permittee has entered a consent agreement with the Department. The Consent Order (OGC #16-1437) for specific conductance, CBOD5, Flow rate, TN, and chronic whole effluent toxicity test. The permittee entered into a Consent Order with the Department to implement the Plan of Correction.
b. Administrative Order is not issued in conjunction with this renewal of the NPDES permit.

9. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

10. 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.

11. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Process Elements	Completion Date
Effective Date of the Application	November 07, 2019
Draft Permit to Applicant and EPA	January 21, 2020
Begin Public Comment Period	January 21, 2020
End Public Comment Period	February 24, 2020
Notice of Intent to Issue	March 2, 2020

Publication of NOI Public Notice	March 23, 2020
End of 14-day Petition Period	April 6, 2020
Notice of Final Agency Action	April 7, 2020

12. DEP CONTACT

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

D. Anh Vo, PE
FDEP - Northeast District Office
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256
Telephone (904) 256-1700

13. PROCEDURES FOR THE FORMULATION OF FINAL DECISION ON PERMIT ISSUANCE

a. Public Comment Period

The Department of Environmental Protection proposes to issue a wastewater facility permit to this applicant subject to the aforementioned reclaimed water or effluent limitations and conditions. This decision is tentative and open to comment from the public.

Interested persons are invited to submit written comments regarding permit issuance on the draft permit limitations and conditions to the following address:

FDEP – Northeast District Office
Attn: Jim Maher, P.E., Assistant Director
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

All comments received within 30 days following the date of public notice, pursuant to Rule 62-620.550, F.A.C., will be considered in the formulation of the final decision with regard to permit issuance.

Any interested person may submit written comments on the Department's proposed permitting decision or may submit a written request for a public meeting to the address specified above, in accordance with Rule 62-620.555, F.A.C. The comments or request for a public meeting must contain the information set forth below and must be received in the above named District office of the Department within 30 days of receipt or publication of the public notice. Failure to submit comments or request a public meeting within this time period will constitute a waiver of any right such person may have to submit comments or request a public meeting under Rule 62-620.555, F.A.C.

The comments or request for a public meeting shall contain the following information:

1) The commenter's name, address and telephone number, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
2) A statement of how and when notice of the draft permit was received;
3) A description of any changes the commenter proposes for the draft permit;
4) A full explanation of the factual and legal reasons for each proposed change to the draft permit; and

A request that a public meeting be scheduled (if applicable) including a statement of the nature of the issues proposed to be raised at the meeting.

b. Public Meeting

The Department will hold a public meeting if there is a significant degree of public interest in the draft permit or if it determines that useful information and data may be obtained thereby. Public notice of such a meeting shall be published by the applicant at least 30 days prior to the meeting.

If a public meeting is scheduled the public comment period is extended until the close of the public meeting. If a public meeting is held any person may submit oral or written statements and data at the meeting on the Department's proposed action.

c. Issuance of the Permit

The Department will make its decision regarding permit issuance after consideration of all written comments, including comments from the United States Environmental Protection Agency on surface water discharge aspects of the draft or a proposed permit; the requirements of Chapter 403, F.S. and appropriate rules; and, if a public meeting is held, after consideration of all comments, statements and data presented at the public meeting. The Department will respond to all significant comments in writing. The Department's response to significant comments will be included in the administrative record of the permit and will be available for public inspection at the above named District office of the Department.

Unless a request for an administrative hearing, or an extension of time to file a petition for an administrative hearing, as indicated in d. below, is granted, the Department will take final agency action by issuing the permit or denying the permit application. If an administrative hearing is convened, final agency action will be based on the outcome of the hearing.

d. Administrative Hearing

A person whose substantial interests are affected by the Department's proposed permitting decision has the opportunity to petition for an administrative proceeding (hearing) to challenge the Department's decision in accordance with Section 120.57, F.S.

An administrative hearing is an evidentiary proceeding in which evidence is presented by testimony and exhibits before an independent hearing officer. The result of an administrative hearing is the issuance of the hearing officer's recommended order to the Department, including the hearing officers findings of fact, based on the evidence presented at the hearing. The Department will issue a final order, granting or denying the permit, based on the hearing officer's recommended order.

The petition for an administrative hearing must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of publication of notice of agency action or within 14 days of personal receipt of notice of agency action, whichever occurs first. The petitioner is to mail a copy of the petition to the applicant at the time of filing. Failure to file a petition within this time period will constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57, F.S. The petition is to contain the following information:

1) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

2) A statement of how and when each petitioner received notice of the Department's action or proposed action;

3) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
4) A statement of the material facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;
5) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
6) A statement of the relief sought by the petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in the notice of agency action. Persons whose substantial interests will be affected by any decision of the Department on the application have the right to petition to become a party to the proceeding, regardless of their agreement or disagreement with the Department's proposed action indicated in the notice of agency action.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: http://www.fldepportal.com/go/

PERMITTEE NAME: Pilgrim's Pride Corporation
MAILING ADDRESS: 19740 Us Highway 90 West
Live Oak, Florida 32060-

FACILITY: Pilgrim's Pride Processing Plant
LOCATION: 19740 US Highway 90
Live Oak, FL 32060-8753

COUNTY: Suwannee
OFFICE: Northeast District

PERMIT NUMBER: FL0001465-008-IW7A

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: GOLD KIST, INC
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	1.70 (Day.Max.)	1.50 (Mo.Avg.)	MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon. Site No. EFF-1	Permit Requirement					15.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon. Site No. EFF-1	Permit Requirement					18.0 (Mo.Avg.)	24.3 (Max.)	mg/L		Weekly	24-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 P Mon. Site No. CAL-1	Permit Requirement	211 (Max.)	156 (Mo.Avg.)	lb/day						Weekly	Calculated
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon. Site No. EFF-1	Permit Requirement					20.0 (An.Avg.)		mg/L		Weekly	24-hr FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon. Site No. EFF-1	Permit Requirement					25.5 (Mo.Avg.)	46.2 (Max.)	mg/L		Weekly	24-hr FPC

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: D-001 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 P Mon. Site No. CAL-1	Permit Requirement	401 (Max.)	221 (Mo.Avg.)	lb/day						Weekly	Calculated
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Max.)	mg/L		Weekly	24-hr FPC
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 P Mon. Site No. CAL-1	Permit Requirement	130 (Max.)	87 (Mo.Avg.)	lb/day						Weekly	Calculated
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	s.u.		Weekly	Meter
Temperature (C), Water	Sample Measurement										
PARM Code 00010 1 Mon. Site No. EFF-1	Permit Requirement						Report (Max.)	Deg C		Weekly	Meter
Nitrogen, Ammonia, Total (as N) (Effluent)	Sample Measurement										
PARM Code 00610 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Max.)	mg/L		Weekly	Grab
Nitrogen, Ammonia, Total (as N) (Limit)	Sample Measurement										
PARM Code 00610 P Mon. Site No. CAL-1	Permit Requirement					Report (Mo.Avg.)	Report (Max.)	mg/L		Weekly	Calculated
Nitrogen, Ammonia, Total (as N) (Compliance = Effluent - Limit)	Sample Measurement										
PARM Code 00610 Q Mon. Site No. CAL-1	Permit Requirement					0.0 (Mo.Avg.)	0.0 (Max.)	mg/L		Weekly	Calculated
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon. Site No. EFF-1	Permit Requirement				5.0 (Min.)			mg/L		Weekly	Meter
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. EFF-1	Permit Requirement					Report (An.Avg.)		mg/L		Weekly	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: D-001 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Max.)	mg/L		Weekly	24-hr FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 P Mon. Site No. CAL-1	Permit Requirement		114245 (An.Total)	lb/yr						Monthly	Calculated
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Q Mon. Site No. CAL-1	Permit Requirement		Report (Mo.Total)	lb/mth						Monthly	Calculated
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Max.)	mg/L		Weekly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon. Site No. EFF-1	Permit Requirement					Report (An.Avg.)		mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon. Site No. EFF-1	Permit Requirement					Report (Mo.Avg.)	Report (Max.)	mg/L		Weekly	24-hr FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 P Mon. Site No. CAL-1	Permit Requirement		60465 (An.Total)	lb/yr						Monthly	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Q Mon. Site No. CAL-1	Permit Requirement		Report (Mo.Total)	lb/mth						Monthly	Calculated
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-1	Permit Requirement						5.0 (Max.)	mg/L		Weekly	Grab
Chlorine, Total Residual	Sample Measurement										
PARM Code 50060 1 Mon. Site No. EFF-1	Permit Requirement						0.01 (Max.)	mg/L		Weekly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: D-001 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1 Mon. Site No. EFF-1	Permit Requirement						200 (Max.)	#/100mL		Weekly	Grab
E.coli	Sample Measurement										
PARM Code 51040 1 Mon. Site No. EFF-1	Permit Requirement					126 (30Day Geo.Mn.)	410 (90th %)	#/100mL		Weekly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-1	Permit Requirement						1275 (Max.)	umhos/cm		Weekly	Meter
7-DAY CHRONIC STATRE Ceriodaphnia dubia (Routine)	Sample Measurement										
PARM Code TRP3B P Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		Quarterly	24-hr FPC
7-DAY CHRONIC STATRE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TRP3B Q Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Ceriodaphnia dubia (Additional)	Sample Measurement										
PARM Code TRP3B R Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas (Routine)	Sample Measurement										
PARM Code TRP6C P Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		Quarterly	24-hr FPC
7-DAY CHRONIC STATRE Pimephales promelas (Additional)	Sample Measurement										
PARM Code TRP6C Q Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas (Additional)	Sample Measurement										
PARM Code TRP6C R Mon. Site No. EFF-1	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 G Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L		Monthly	24-hr FPC

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: D-001 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 G Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L		Monthly	24-hr FPC
Temperature (C), Water	Sample Measurement										
PARM Code 00010 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	Deg C		Monthly	Meter
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 5 Mon. Site No. SWU-2	Permit Requirement				Report (Day.Min.)			mg/L		Monthly	Meter
Oxygen, Dissolved Percent Saturation	Sample Measurement										
PARM Code 00301 5 Mon. Site No. SWU-2	Permit Requirement				Report (Min.)			percent		Monthly	Meter
Specific Conductance	Sample Measurement										
PARM Code 00095 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	umhos/cm		Monthly	Meter
pH	Sample Measurement										
PARM Code 00400 5 Mon. Site No. SWU-2	Permit Requirement				Report (Day.Min.)		Report (Day.Max.)	s.u.		Monthly	Meter
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: D-001 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 5 Mon. Site No. SWU-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Chlorophyll a	Sample Measurement										
PARM Code 32230 5 Mon. Site No. SWU-2	Permit Requirement						Report (Max.)	mg/L		Monthly	Grab
Temperature (C), Water	Sample Measurement										
PARM Code 00010 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	Deg C		Monthly	Meter
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 6 Mon. Site No. SWD-2	Permit Requirement				Report (Day.Min.)			mg/L		Monthly	Meter
Oxygen, Dissolved Percent Saturation	Sample Measurement										
PARM Code 00301 6 Mon. Site No. SWD-2	Permit Requirement				Report (Min.)			percent		Monthly	Meter
Specific Conductance	Sample Measurement										
PARM Code 00095 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	umhos/cm		Monthly	Meter
pH	Sample Measurement										
PARM Code 00400 6 Mon. Site No. SWD-2	Permit Requirement				Report (Day.Min.)		Report (Day.Max.)	s.u.		Monthly	Grab
Nitrogen, Kjeldahl, Total (as N)	Sample Measurement										
PARM Code 00625 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Nitrogen, Ammonia, Total (as N)	Sample Measurement										
PARM Code 00610 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: D-001 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrite plus Nitrate, Total 1 det. (as N)	Sample Measurement										
PARM Code 00630 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 6 Mon. Site No. SWD-2	Permit Requirement						Report (Day.Max.)	mg/L		Monthly	Grab
Chlorophyll a	Sample Measurement										
PARM Code 32230 6 Mon. Site No. SWD-2	Permit Requirement						Report (Max.)	mg/L		Monthly	Grab

ISSUANCE/REISSUANCE DATE: April 2020

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: http://www.fldepportal.com/go/

PERMITTEE NAME: Pilgrim's Pride Corporation
MAILING ADDRESS: 19740 Us Highway 90 West
Live Oak, Florida 32060-

FACILITY: Pilgrim's Pride Processing Plant
LOCATION: 19740 US Highway 90
Live Oak, FL 32060-8753

COUNTY: Suwannee
OFFICE: Northeast District

PERMIT NUMBER: FL0001465-008-IW7A

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: GOLD KIST, INC
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Annually
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total	Sample Measurement										
PARM Code 00600 5 Mon. Site No. SWU-2	Permit Requirement						Report (An.Geo.Mn.)	mg/L		Annually	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 6 Mon. Site No. SWD-2	Permit Requirement						Report (An.Geo.Mn.)	mg/L		Annually	Calculated

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

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

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: http://www.fldepportal.com/go/

PERMITTEE NAME: Pilgrim's Pride Corporation
MAILING ADDRESS: 19740 Us Highway 90 West
Live Oak, Florida 32060-

FACILITY: Pilgrim's Pride Processing Plant
LOCATION: 19740 US Highway 90
Live Oak, FL 32060-8753

COUNTY: Suwannee
OFFICE: Northeast District

PERMIT NUMBER: FL0001465-008-IW7A

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: D-001
MONITORING GROUP DESCRIPTION: GOLD KIST, INC
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Every Two Years
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 1 Mon. Site No. EFF-1	Permit Requirement						0.012 (Max.)	ug/L		Bi-annually; every 2 years	Grab
Stream Condition Index	Sample Measurement										
PARM Code SCIND 5 Mon. Site No. SWU-2	Permit Requirement		Report (Avg.Value)	no units						Bi-annually; every 2 years	Grab
Stream Condition Index	Sample Measurement										
PARM Code SCIND 6 Mon. Site No. SWD-2	Permit Requirement		Report (Avg.Value)	no units						Bi-annually; every 2 years	Grab

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

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

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: http://www.fldepportal.com/go/

PERMITTEE NAME: Pilgrim's Pride Corporation
MAILING ADDRESS: 19740 Us Highway 90 West
Live Oak, Florida 32060-

FACILITY: Pilgrim's Pride Processing Plant
LOCATION: 19740 US Highway 90
Live Oak, FL 32060-8753

COUNTY: Suwannee
OFFICE: Northeast District

PERMIT NUMBER: FL0001465-008-IW7A

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: SLF-1
MONITORING GROUP DESCRIPTION: Aerobic Digester
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Monthly
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow (Daily Max Hydraulic Loading)	Sample Measurement										
PARM Code 50050 + Mon. Site No. SLF-1	Permit Requirement		0.04 (Day.Max.)	MGD						Continuous	Flow Totalizer

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

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

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

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: http://www.fldepportal.com/go/

PERMITTEE NAME: Pilgrim's Pride Corporation
MAILING ADDRESS: 19740 Us Highway 90 West
Live Oak, Florida 32060-

FACILITY: Pilgrim's Pride Processing Plant
LOCATION: 19740 US Highway 90
Live Oak, FL 32060-8753

COUNTY: Suwannee
OFFICE: Northeast District

PERMIT NUMBER: FL0001465-008-IW7A

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: SLF-1
MONITORING GROUP DESCRIPTION: Aerobic Digester
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Quarterly
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Sludge, Tot, Dry Wt (as N)	Sample Measurement										
PARM Code 78470 + Mon. Site No. SLF-1	Permit Requirement		Report (Max.)	percent						Quarterly	Composite
Phosphorus, Sludge, Tot, Dry Wt (as P)	Sample Measurement										
PARM Code 78478 + Mon. Site No. SLF-1	Permit Requirement		Report (Max.)	percent						Quarterly	Composite
Potassium, Sludge, Tot, Dry Wt (as K)	Sample Measurement										
PARM Code 78472 + Mon. Site No. SLF-1	Permit Requirement		Report (Max.)	percent						Quarterly	Composite
Solids, Total, Sludge, Percent	Sample Measurement										
PARM Code 61553 + Mon. Site No. SLF-1	Permit Requirement						Report (Max.)	percent		Quarterly	Composite
pH	Sample Measurement										
PARM Code 00400 + Mon. Site No. SLF-1	Permit Requirement				Report (Min.)		Report (Max.)	s.u.		Quarterly	Composite
Cadmium, Sludge, Tot, Dry Weight (as Cd)	Sample Measurement										
PARM Code 78476 + Mon. Site No. SLF-1	Permit Requirement						Report (Max.)	mg/kg		Quarterly	Composite

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

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

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

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Pilgrim's Pride Processing Plant MONITORING GROUP NUMBER: SLF-1 PERMIT NUMBER: FL0001465-008-IW7A

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Sludge, Tot, Dry Wt. (as Cu)	Sample Measurement										
PARM Code 78475 + Mon. Site No. SLF-1	Permit Requirement						Report (Max.)	mg/kg		Quarterly	Composite
Lead, Dry Weight, Sludge	Sample Measurement										
PARM Code 78468 + Mon. Site No. SLF-1	Permit Requirement						Report (Max.)	mg/kg		Quarterly	Composite
Nickel, Dry Weight, Sludge	Sample Measurement										
PARM Code 78469 + Mon. Site No. SLF-1	Permit Requirement						Report (Max.)	mg/kg		Quarterly	Composite
Zinc, Dry Weight, Sludge	Sample Measurement										
PARM Code 78467 + Mon. Site No. SLF-1	Permit Requirement						Report (Max.)	mg/kg		Quarterly	Composite

ISSUANCE/REISSUANCE DATE:

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

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed submit this report to: http://www.fldepportal.com/go/

PERMITTEE NAME: Pilgrim's Pride Corporation
MAILING ADDRESS: 19740 Us Highway 90 West
Live Oak, Florida 32060-

FACILITY: Pilgrim's Pride Processing Plant
LOCATION: 19740 US Highway 90
Live Oak, FL 32060-8753

COUNTY: Suwannee
OFFICE: Northeast District

PERMIT NUMBER: FL0001465-008-IW7A

LIMIT: Final
CLASS SIZE: MA
MONITORING GROUP NUMBER: SLF-2
MONITORING GROUP DESCRIPTION: Calculated value
RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To: _____

REPORT FREQUENCY: Quarterly
PROGRAM: Industrial

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon. Site No. SLF-2	Permit Requirement		450 (An.Avg.)	lb/acre/yr						Quarterly	Calculated
Cadmium, Sludge, Tot, Dry Weight (as Cd)	Sample Measurement										
PARM Code 78476 + Mon. Site No. SLF-2	Permit Requirement		4.4 (An.Total)	lb/acre						Quarterly	Calculated
Copper, Sludge, Tot, Dry Wt. (as Cu)	Sample Measurement										
PARM Code 78475 + Mon. Site No. SLF-2	Permit Requirement		125 (An.Total)	lb/acre						Quarterly	Calculated
Lead, Dry Weight, Sludge	Sample Measurement										
PARM Code 78468 + Mon. Site No. SLF-2	Permit Requirement		500 (An.Total)	lb/acre						Quarterly	Calculated
Nickel, Dry Weight, Sludge	Sample Measurement										
PARM Code 78469 + Mon. Site No. SLF-2	Permit Requirement		125 (An.Total)	lb/acre						Quarterly	Calculated
Zinc, Dry Weight, Sludge	Sample Measurement										
PARM Code 78467 + Mon. Site No. SLF-2	Permit Requirement		250 (An.Total)	lb/acre						Quarterly	Calculated

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

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

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

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0001465-008-IW7A Facility: Pilgrim's Pride Processing Plant
Monitoring Period From: _____ To: _____

	BOD, Carbonaceous 5 day, 20C mg/L	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual mg/L	Chlorophyll a mg/L	Chlorophyll a mg/L	Coliform, Fecal #/100mL	E.coli #/100mL	Flow MGD	Nitrite plus Nitrate, Total 1 det. (as N) mg/L	Nitrite plus Nitrate, Total 1 det. (as N) mg/L	Nitrite plus Nitrate, Total 1 det. (as N) mg/L
Code	80082	80082	50060	32230	32230	74055	51040	50050	00630	00630	00630
Mon. Site	EFF-1	INF-1	EFF-1	SWD-2	SWU-2	EFF-1	EFF-1	FLW-1	EFF-1	SWD-2	SWU-2
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Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0001465-008-IW7A Facility: Pilgrim's Pride Processing Plant
Monitoring Period From: _____ To: _____

	Nitrogen, Ammonia, Total (as N) (Effluent) mg/L	Nitrogen, Ammonia, Total (as N) mg/L	Nitrogen, Ammonia, Total (as N) mg/L	Nitrogen, Kjeldahl, Total (as N) mg/L	Nitrogen, Kjeldahl, Total (as N) mg/L	Nitrogen, Kjeldahl, Total (as N) mg/L	Nitrogen, Total mg/L	Nitrogen, Total mg/L	Nitrogen, Total mg/L	Oil and Grease mg/L	Oxygen, Dissolved Percent Saturation percent
Code	00610	00610	00610	00625	00625	00625	00600	00600	00600	00556	00301
Mon. Site	EFF-1	SWD-2	SWU-2	EFF-1	SWD-2	SWU-2	EFF-1	SWD-2	SWU-2	EFF-1	SWD-2
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Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0001465-008-IW7A Facility: Pilgrim's Pride Processing Plant
Monitoring Period From: _____ To: _____

	Oxygen, Dissolved Percent Saturation percent	Oxygen, Dissolved (DO) mg/L	Oxygen, Dissolved (DO) mg/L	Oxygen, Dissolved (DO) mg/L	Phosphorus, Total (as P) mg/L	Phosphorus, Total (as P) mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	Solids, Total Suspended mg/L	Specific Conductance umhos/cm	Specific Conductance umhos/cm
Code	00301	00300	00300	00300	00665	00665	00665	00530	00530	00095	00095
Mon. Site	SWU-2	EFF-1	SWD-2	SWU-2	EFF-1	SWD-2	SWU-2	EFF-1	INF-1	EFF-1	SWD-2
1											
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Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

DAILY SAMPLE RESULTS - PART B

Permit Number: FL0001465-008-IW7A Facility: Pilgrim's Pride Processing Plant
Monitoring Period From: _____ To: _____

	Specific Conductance umhos/cm	Temperature (C), Water Deg C	Temperature (C), Water Deg C	Temperature (C), Water Deg C	pH s.u.	pH s.u.	pH s.u.				
Code	00095	00010	00010	00010	00400	00400	00400				
Mon. Site	SWU-2	EFF-1	SWD-2	SWU-2	EFF-1	SWD-2	SWU-2				
1											
2											
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Total											
Mo. Avg.											

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____

Evening Shift Operator Class: _____ Certificate No: _____ Name: _____

Night Shift Operator Class: _____ Certificate No: _____ Name: _____

Lead Operator Class: _____ Certificate No: _____ Name: _____

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Pilgrim's Pride Processing Plant
Permit Number: FL0001465-008-IW7A
County: Suwannee
Office: Northeast District

Monitoring Well ID: MWB-1
Well Type: Background
Description: 550' NE of land application site (LAS).
Report Frequency: Quarterly
Program: Industrial
Re-submitted DMR: ☐

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

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Nitrite plus Nitrate, Total 1 det. (as N)	00630		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				

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

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

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Pilgrim's Pride Processing Plant
Permit Number: FL0001465-008-IW7A
County: Suwannee
Office: Northeast District

Monitoring Well ID: MWC-5R
Well Type: Compliance
Description: 200' SW of LAS, along southern property line,
Report Frequency: Quarterly
Program: Industrial
Re-submitted DMR: ☐

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

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Nitrite plus Nitrate, Total 1 det. (as N)	00630		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				

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

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Pilgrim's Pride Processing Plant
Permit Number: FL0001465-008-IW7A
County: Suwannee

Monitoring Well ID: MWC-6R
Well Type: Compliance
Description: 600' west of LAS, along west property line.

Report Frequency: Quarterly
Program: Industrial

Office: Northeast District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Nitrite plus Nitrate, Total 1 det. (as N)	00630		10	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100mL	Grab	Quarterly				

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

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Pilgrim's Pride Processing Plant
Permit Number: FL0001465-008-IW7A
County: Suwannee
Office: Northeast District

Monitoring Well ID: MWI-4
Well Type: Intermediate
Description: Along west margin of LAS.
Re-submitted DMR: ☐

Report Frequency: Quarterly
Program: Industrial

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Nitrite plus Nitrate, Total 1 det. (as N)	00630		Report	mg/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Sulfate, Total	00945		Report	mg/L	Grab	Quarterly				
Coliform, Fecal	74055		Report	#/100mL	Grab	Quarterly				

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

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. Facilities who submit their DMR(s) electronically through eDMR do not need to submit a hardcopy DMR. The DMR shall not be submitted before the end of the monitoring period.

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

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

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

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

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used, unless indicated otherwise in the permit or on the DMR:

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

PART A -DISCHARGE MONITORING REPORT (DMR)

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

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)
No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.
Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units. Data qualifier codes are not to be reported on Part A.
No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.
Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.
Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

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

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.
Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.
Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.
Time Sample Obtained: Enter the time the sample was taken.
Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that. Data qualifier codes are not to be reported on Part D.
Detection Limits: Record the detection limits of the analytical methods used.
Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.
Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)
Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).
Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.
Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).
Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.
Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.
No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.
$CBOD_5$: Enter the average $CBOD_5$ of the reclaimed water discharged during the period shown in duration of discharge.
TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.
Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.
Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.
No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.
Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.