pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0056898**
Facility Type	**Industrial**	APS ID	**1072464**
Major / Minor	**Minor**	Authorization ID	**1412211**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**To Jo Mushrooms Inc.**	Facility Name	**To Jo Mushroom Farm**
Applicant Address	947 Penn Green Road P.O. Box 687 Avondale, PA 19311	Facility Address	974 Penn Green Road Avondale, PA 19311-9781
Applicant Contact	Joseph D'Amico	Facility Contact	Bernard Ciuffetelli
Applicant Phone	(610) 268-8082	Facility Phone	(610) 268-8082
Client ID	4082	Site ID	485960
SIC Code	2033	Municipality	New Garden Township
SIC Description	Manufacturing - Canned Fruits And Vegetables	County	Chester
Date Application Received	October 3, 2022	EPA Waived?	No
Date Application Accepted	10/3/2022	If No, Reason	Christina River Basin TMDL

Purpose of Application: NPDES permit renewal.

Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from EEMA, Inc. (consultant) on March 10, 2022 and resubmitted on October 3, 2022 on behalf of To-Jo Mushrooms, Inc. (permittee) for permittee's To-Jo Mushroom Farm (facility), located in New Garden Township, Chester County. The treated effluent is discharged through Outfall 001 and 002 into an UNT to Trout Run in state watershed 3-I, classified as CWF/MF. This is a minor industrial facility (MIIW2). The current permit expires on April 30, 2023. The terms and conditions of the permit will be automatically extended since the renewal application was received at least 180 days prior to the expiration date. Renewal NPDES permit applications under Clean Water program are not covered by PADEP's PDG per 021-2100-001.

This fact sheet is developed in accordance with 40 CFR §124.56

Changes in this permit: None

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
√		Reza H. Chowdhury, E.I.T. / Project Manager	November 30, 2022
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	12/02/2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.049
Latitude	39º 49' 33"	Longitude	-75º 46' 16"
Quad Name	West Grove	Quad Code	2039
Wastewater Description:	IW Process Effluent without ELG		
Receiving Waters	UNT to Trout Run (CWF)	Stream Code	63875
NHD Com ID	26108906	RMI	0.025
Drainage Area	0.27 mi^2	Yield (cfs/mi^2)	0.407
Q_{7-10} Flow (cfs)	0.11	Q_{7-10} Basis	Previous fact sheet
Elevation (ft)	404.9	Slope (ft/ft)	
Watershed No.	3-I	Chapter 93 Class.	CWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	NUTRIENTS, PESTICIDES, SILTATION		
Source(s) of Impairment	AGRICULTURE, AGRICULTURE, SOURCE UNKNOWN		
TMDL Status	Final	Name	Christina River Basin

Changes Since Last Permit Issuance: There is no discharge from Outfall 001 for last eighteen (18) months. All treated effluent is hauled off to either Joe D'Amico Farm to spray over compost or to Oxford Area Sewer Authority for further treatment.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	002	Design Flow (MGD)	0.035
Latitude	39º 49' 33"	Longitude	-75º 46' 16"
Quad Name	West Grove	Quad Code	2039
Wastewater Description:	Noncontact Cooling Water (NCCW)		
Receiving Waters	Trout Run (CWF)	Stream Code	63875
NHD Com ID	26108906	RMI	0.025
Drainage Area	0.27 mi^2	Yield (cfs/mi^2)	0.407
Q_{7-10} Flow (cfs)	0.11	Q_{7-10} Basis	Previous fact sheet
Elevation (ft)	404.9	Slope (ft/ft)	
Watershed No.	3-I	Chapter 93 Class.	CWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	NUTRIENTS, PESTICIDES, SILTATION		
Source(s) of Impairment	AGRICULTURE, AGRICULTURE, SOURCE UNKNOWN		
TMDL Status	Final	Name	Christina River Basin

Changes Since Last Permit Issuance: There was no discharge from Outfall 002 for at least past eight (8) years. Per the consultant "the anticipated discharge was never implemented".

Treatment Facility Summary				
Treatment Facility Name: To-Jo Mushrooms Facility				
WQM Permit No.	**Issuance Date**			
1501201 A-1	01/14/2003			
1501201	03/29/2001			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Industrial			No Disinfection	
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
		Not Overloaded		

Changes Since Last Permit Issuance: None

Other Comments:

Treatment Plant Description

TO-JO Mushroom owns and operates a Process Wastewater Treatment Facility which receives and treats waste streams from the mushroom washing, blanch process, and wash-down processes. There are two active outfalls: Outfall 001 and Outfall 002. Effluent from Outfall 001 and 002 are discharged to an UNT to Trout Run in state watershed 3-I. The facility is in New Garden Township, Chester County.

A batch operation is performed for washing the mushrooms, washing of the baskets, and hydrating the mushrooms. A quick blanch operation is required for refrigerated products and a canning operation for canned products. Each of these operations has a side stream that is delivered to the process wastewater treatment facility for treatment and discharged to the stream. No discharge from Outfall 001 occurred in the past eighteen (18) months; therefore, no effluent information was submitted with the permit renewal application. The waste stream has been held in the EQ tank and liquid is hauled off as necessary. Approximately four to six 5,000-gallon truckloads of effluent are hauled off daily. The permittee has a dedicated pump truck and hauler that transports the wastewater to John D'Amico Farms. The effluent is emptied into a holding tank where it is sent through a hydrosif and utilized for onsite compost manufacturing. In addition, the facility also has an agreement with the Oxford Area Sewer Authority and three (3) loads (approximately 5,500 gal/load) are sent there per week.

Treatment process consists of an outside EQ tank (125,000-gallon), a 5,000-gallon EQ tank outside the building, aeration tank (18,000-gallon), extended aeration (10,000-gallon), two clarifiers run in series, 800-micron Tekleen filter, three (3) Yardley sand filters, and a chlorine contact tank. centrifuge is used for solids removal. All water from the process travels by gravity to a 500-gallon holding tank. the water is then sent through a hydrosif and sent to the old EQ tank located outside. The EQ tank consists of two rings. The outer ring is used for process water while the inner ring is used to collect wash water from the mushroom houses located on site. The outer ring is aerated. The treatment process for Outfall 002 consists of a temperature control pond with controlled discharge rate to receiving stream.

There is no discharge from Outfall 002 for at least past eight (8) years. The consultant stated that they didn't implement the anticipated discharge from this facility. It is assumed that the WQM permit amended in 2003 incorporated the addition of this outfall. The permittee wishes to continue the NPDES permit coverage despite the fact that there is no discharge and no future timeframe is on sight by when they may begin discharging. Since there is no discharge from any of the outfalls and no effluent sample results available to conduct a Reasonable Potential analysis, all existing limits, monitoring frequencies, permit terms and conditions will be carried over in this renewal. As there were no sample results for RP analysis, the permittee will be required to collect three (3) 24-hr composite samples for the appropriate pollutant groups as required by permit renewal application within sixty (60) days of commencement of discharge. Those results will be used to conduct a Reasonable Potential Analysis of the pollutants. If the RP analysis show new pollutant of concern or more stringent limit for existing pollutants, the permittee will be required to apply for a permit amendment to incorporate the changes. The To enforce this, the following special condition in Part C.K will be added in the draft permit:

"Within 60 days of commencement of the discharge at either outfall(s), the permittee shall collect, analyze, and submit three (3) 24-Hr effluent composite samples for all the parameters of the required groups using applicable TQL as listed in the NPDES application instruction. These results will be reviewed to determine a Reasonable Potential Analysis and the permittee may be required to amend the permit if a Reasonable Potential is demonstrated for any of the parameters analyzed or more stringent limits are recommended for existing parameters listed in Part A of the permit."

To support the existing limits, selected sections from previous permit will be copied here in *italic font*.

The monthly and instantaneous maximum effluent limits for Outfall 001 in the existing permit are continued for $CBOD_5$ (20 and 50 mg/l), Total Suspended Solids (30 and 60 mg/l), Total Dissolved Solids (1,000 and 2,500 mg/l), NH_3N (3.3 and 8.3 mg/l), Total Phosphorus (2.0 and 5 mg/l), Total Nitrogen (40 and 100 mg/l), Fecal Coliform (200 and 1,000 No./100ml), Total Residual Chlorine (0.5 and 1.2 mg/l), pH (6.0 mg/l Instantaneous Minimum and 9.0 mg/l Instantaneous Maximum), and Dissolved Oxygen (5.0 mg/l Instantaneous Minimum). The monthly and instantaneous maximum effluent limits for Outfall 002 in the existing permit are continued for $CBOD_5$ (20 and 50 mg/l), Total Dissolved Solids (1,000 and 2,500 mg/l), NH_3N (3.3 and 8.3 mg/l), Total Phosphorus (2.0 and 5 mg/l), Total Nitrogen (20 and 50 mg/l), Fecal Coliform (200 and 1,000 No./100ml), Total Residual Chlorine (0.5 and 1.2 mg/l), pH (6.0 mg/l Instantaneous Minimum and 9.0 mg/l Instantaneous Maximum), and Dissolved Oxygen (5.0 mg/l Instantaneous Minimum).

Christina River Basin TMDL: *The Christina River Basin Total Maximum Daily Load (TMDL) for Nutrients and Dissolved Oxygen for Low-Flow Conditions, issued by the Environmental Protections Agency (EPA) on January 19, 2001 and subsequently revised on October 2002 and April 2006. Furthermore, DEP prepared and EPA acknowledged an Alternative Reduction Scenario for the Christina River Basin for Low Flow TMDL dated June 27, 2012 to reassigned some of the allocations within the dischargers by keeping the total load to the basin same. To-Jo Mushrooms, Inc. is part of an Alternative Reduction Scenario TMDL (Summary Table 20), for parameters: $CBOD_5$, NH_3N, Dissolved Oxygen, Total Nitrogen, and Total Phosphorus. The Christina River Basin, also has an approved High-Flow TMDL for Bacteria and Sediment (dated September 2006) for Fecal Coliform, enterococci, and TSS, flows and loads for nutrients and CBOD5. The limits for Total Suspended Solids (30 mg/l) and Fecal Coliform (200 No./100ml) will continue in this permit renewal and it is consistent with the High Flow TMDL for Bacteria and Sediment. The high flow TMDL allocations were not adjusted at the time when low flow TMDL under an "Alternative Reduction Scenario" was developed. Since, the Christina River Low-Flow TMDL is the driver for the Christina River High-Flow TDML especially for nutrients, therefore, it is assumed that compliance with the low flow TMDL, satisfies the compliance of the high flow TMDL. Therefore, existing TMDL allocations for all parameters are carried over in the renewal. No seasonal limits were applied to the nutrient WLAs, therefor this permit is more stringent than the assumptions of the TMDL WLAs.*

TDS: *Total Dissolved Solids average monthly limit of 1,000 mg/l and instantaneous maximum 2,500 mg/l for Outfall 001 and 002 will continue in this permit renewal per Delaware River Basin Commission Docket No. D-2007-003-3 renewal approved on June 14, 2017.*

Temperature: *Discharge Temperature (°F) were moved from Part C Other Requirements to Part A of the permit for Outfall 002. This thermal load for the discharge from Outfall 002 was previously determined assuming the source will be public water or private well. Temperature limits have been requested in the worksheets for only the CCW discharge, which comes from sterilizing/cooling of closed cans after the canning process. The effluent limits based on CWF criteria vary monthly and these limits apply as daily (24-hr) averages. The 110 °F limit applies as an instantaneous max limit.* (Temperature model output is provided later in this report)

TRC: *Total Residual Chlorine limits were determined for 001 and 002 individually and for the combined discharge in previous permit renewal. The actual chlorine demand of the stream isn't known, so in the calculation the demand was varied from 0.3 to 1.0. The BAT average monthly limit is applicable for 001, 002, and the combined discharge, not all at the same demand but in the same range. Permit limit of 0.5 mg/l average monthly and 1.2 mg/l instantaneous maximum for outfall 001 and 002 will continue in this permit renewal.* (model output provided later in this report)

CASE 2
SITUATION

To-Jo Mushrooms, Inc.
New Garden Township
Chester County
PA0056898

Annual Q7_10= 0.044 mgd
Qd= 0.084 mgd
CWF,WWF,TSF? CWF

Outfall 002

Determine monthly values for T2,T1,and Q1.
Calculate monthly Td using the equation:
Allowable Td= (Q1/Qd) (T2-T1) + T2

Note: When T1 >= Table 1 (occurs for CWF), T2 = T1+1 in the equation above to calculate Td.

PERIOD	T2 Allowable Downstream Temp. F (Table 1)	T1 Design Ambient Temp. F (Table 3 or STORET)	T2 - T1 Allowable Stream Temperature Increase, F (Minimum=1)	Qd Waste Flow MGD	RQ Default Q7-10 Multiplier (Table 2)	Q1 Design Stream Flow, MGD (Q7-10 X RQ)	Td Allowable Discharge Temp. F
JAN 1-31	38	34	4	0.084	3.2	0.1408	44.704762
FEB 1-29	38	35	3	0.084	3.5	0.154	43.5
MAR 1-31	42	39	3	0.084	7	0.308	53
APR 1-15	48	49	1	0.084	9.3	0.4092	54.871429
APR 16-30	52	49	3	0.084	9.3	0.4092	66.614286
MAY 1-15	54	57	1	0.084	5.1	0.2244	60.671429
MAY 16-31	58	57	1	0.084	5.1	0.2244	60.671429
JUN 1-15	60	65	1	0.084	3	0.132	67.571429
JUN 16-30	64	65	1	0.084	3	0.132	67.571429
JUL 1-31	66	71	1	0.084	1.7	0.0748	72.890476
AUG 1-15	66	70	1	0.084	1.4	0.0616	71.733333
AUG 16-31	66	70	1	0.084	1.4	0.0616	71.733333
SEP 1-15	64	63	1	0.084	1.1	0.0484	64.57619
SEP 16-30	60	63	1	0.084	1.1	0.0484	64.57619
OCT 1-15	54	53	1	0.084	1.2	0.0528	54.628571
OCT 16-31	50	53	1	0.084	1.2	0.0528	54.628571
NOV 1-15	46	43	3	0.084	1.6	0.0704	48.514286
NOV 16-30	42	43	1	0.084	1.6	0.0704	44.838095
DEC 1-31	40	35	5	0.084	2.4	0.1056	46.285714

9/24/96

TOJO.XLS

	B	C	D	E	F	G
2	**TRC EVALUATION**			**To - Jo Mushrooms, Inc.**		
3	**Input appropriate values in B4:B8 and E4:E7**					
4	0.068	= Q stream (cfs)		0.5	= CV Daily	
5	0.03	= Q discharge (MGD)		0.5	= CV Hourly	
6	4	= no. samples		1	= AFC_Partial Mix Factor	
7	0.5	= Chlorine Demand of Stream		1	= CFC_Partial Mix Factor	
8		= Chlorine Demand of Discharge		15	= AFC_Criteria Compliance Time (min)	
9	0.5	= BAT/BPJ Value		720	= CFC_Criteria Compliance Time (min)	
		= % Factor of Safety (FOS)			=Decay Coefficient (K)	
10	Source	Reference	AFC Calculations		Reference	CFC Calculations
11	TRC	1.3.2.iii	WLA afc = 0.779		1.3.2.iii	WLA cfc = 0.760
12	PENTOXSD TRG	5.1a	LTAMULT afc = 0.373		5.1c	LTAMULT cfc = 0.581
13	PENTOXSD TRG	5.1b	LTA_afc= 0.290		5.1d	LTA_cfc = 0.442
14						
15	Source		Effluent Limit Calculations			
16	PENTOXSD TRG	5.1f	AML MULT = 1.720			
17	PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		AFC	
18			INST MAX LIMIT (mg/l) = 1.169			

WLA afc	(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...
	...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))...
	...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/week	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/week	Grab
CBOD5	8.3	16.6	XXX	20	40	50	1/week	8-Hr Composite
TSS	12.3	18.4	XXX	30	45	60	1/week	8-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	1000	2000	2500	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000*	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Total Nitrogen	16.3	32.7	XXX	40	80	100	1/week	8-Hr Composite
Ammonia	1.35	XXX	XXX	3.3	XXX	8.3	1/week	8-Hr Composite
Total Phosphorus	0.82	1.6	XXX	2.0	4.0	5	1/week	8-Hr Composite

* Shall not exceed in more than 10 percent of samples

Compliance Sampling Location: At Outfall 001

Other Comments: None

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/week	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/week	Grab
Temperature (ºF) Jan 1 - 31	XXX	XXX	XXX	45 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Apr 1 - 15	XXX	XXX	XXX	55 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Apr 16 - 30	XXX	XXX	XXX	67 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Nov 1 - 15	XXX	XXX	XXX	49 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Nov 16 - 30	XXX	XXX	XXX	45 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Feb 1 - 28	XXX	XXX	XXX	44 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Mar 1 - 31	XXX	XXX	XXX	53 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) May 1 - 31	XXX	XXX	XXX	61 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Jun 1 - 30	XXX	XXX	XXX	68 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Jul 1 - 31	XXX	XXX	XXX	73 Wkly Avg	XXX	110	1/week	I-S

Outfall 002, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Temperature (ºF) Aug 1 - 31	XXX	XXX	XXX	72 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Sep 1 - 30	XXX	XXX	XXX	65 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Oct 1 - 31	XXX	XXX	XXX	55 Wkly Avg	XXX	110	1/week	I-S
Temperature (ºF) Dec 1 - 31	XXX	XXX	XXX	46 Wkly Avg	XXX	110	1/week	I-S
CBOD5	5.9	11.8	XXX	20	40	50	1/week	8-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	1000	2000	2500	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000*	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Total Nitrogen	5.8	11.6	XXX	20	40	50	1/week	8-Hr Composite
Ammonia	1.0	XXX	XXX	3.3	XXX	8.3	1/week	8-Hr Composite
Total Phosphorus	0.6	1.2	XXX	2.0	4.0	5	1/week	8-Hr Composite

*Shall not exceed in more than 10 percent of samples

Compliance Sampling Location: At Outfall 002

Other Comments: None

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
☐	Pennsylvania CSO Policy, 385-2000-011, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
☐	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
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☐	Other: