

 Application Type
 Renewal

 Facility Type
 Industrial

 Major / Minor
 Minor

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

 Application No.
 PA0009270

 APS ID
 1085420

 Authorization ID
 1434367

Applicant and Facility Information

Applicant Name	Post Consumer Brands, Inc.	Facility Name	Post Consumer Brands Bloomsburg Plant			
Applicant Address	20802 Kensington Boulevard	Facility Address	6670 Lowe Street			
	Lakeville, MN 55044-8052	_	Bloomsburg, PA 17815-8613			
Applicant Contact	Karen Wojtowicz	Facility Contact	Karen Wojtowicz			
Applicant Phone	(570) 380-1966	Facility Phone	(570) 380-1966			
Client ID	376297	Site ID	2828			
SIC Code		Municipality	South Centre Township			
SIC Description	Manufacturing - Dog And Cat Food	County	Columbia			
Date Application Recei	ved April 3, 2023	EPA Waived?	No			
Date Application Accep	otedApril 10, 2023	If No, Reason	Significant CB Discharge			
Purpose of Application	_ Renewal and Transfer of a NPDE	S Permit				

Summary of Review

The subject facility produces pet foods in South Centre Township, Columbia County. This NPDES permit and associated WQM Permit No. 1908201 Amendment No. 6 will be transferred to Post Consumer Brands, Inc. from Big Heart Pet Brands, Inc. upon final issuance of this NPDES permit.

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
~		Keith C. Allison / Project Manager	January 23, 2024
~		H. 2/. M Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	January 23, 2024

Discharge, Receiving Waters	and Water Supply Informatio	n						
Outfall No. <u>001</u> Latitude <u>41º 1' 11.52"</u> Quad Name <u>Mifflinville,</u> Wastewater Description: <u>F</u>	Pa Effluent	Design Flow (MGD) Longitude Quad Code	0.5 76º 20' 42.84"					
Receiving Waters <u>Susque</u> NHD Com ID 656400	hanna River (WWF) 27	Stream Code RMI	<u> 6685 </u>					
Drainage Area 10544		Yield (cfs/mi ²)	0.09982 USGS Gage 01540500, Susquehanna River @					
Q ₇₋₁₀ Flow (cfs) <u>1052</u>		Q7-10 Basis	Danville (1981-2008)					
Elevation (ft) 460		Slope (ft/ft)	0.00023					
Watershed No. <u>5-D</u>		Chapter 93 Class.	WWF					
Existing Use <u>N/A</u>		Existing Use Qualifier	N/A					
Exceptions to Use <u>None</u>		Exceptions to Criteria	None					
Assessment Status	Impaired							
Cause(s) of Impairment	MERCURY, POLYCHLORINA	TED BIPHENYLS (PCBS),	Siltation, Aluminum, Iron					
Source(s) of Impairment	SOURCE UNKNOWN, Agricu	lture, AMD						
TMDL Status	Final	Name Susquehann	a River PCB					
IMDL Status Final Name Susquenanna River PCB Nearest Downstream Public Water Supply Intake Danville Municipal Water Authority PWS Waters Susquehanna River Distance from Outfall (mi) Approx. 17								

Changes Since Last Permit Issuance: None. The above stream and drainage characteristics were determined for previous reviews and they remain applicable.

Other Comments: The facility is not identified as a significant discharger in the River PCB TMDL and, due to the nature of the facility, it is not expected to be a contributor to the impairment by Mercury and PCBs identified above.

This discharge is also not expected to be contributing to the impairment to the river for sediment because it consistently meets its TSS limitations.

Due to the impairment for Aluminum and Iron, annual monitoring will be included for each of these in the 001 discharge to verify the discharge does not contribute to the impairment.

The discharge is not expected at this time to impact any downstream water supply with the effluent limitations and monitoring proposed.

Treatment Facility Summary

Treatment Facility N	ame: Post Consumer Brand	s							
WQM Permit No.	Issuance Date		Permit Covered:						
	Original - 1/27/09	Reducir	ng lagoon from 8 to 3.75 MG						
	A-2 - 12/6/10	Replacement of rotary	screen and DAF with new c	hemical feeds					
	A-3 – 7/9/13	Re	eplacement of EQ tank						
1908201	A-4 – 3/31/14	New chlorination system							
	Transfer - 4/24/14	Transfer							
	A-5 – 9/14/17	Replacement of Floating Aerators with Venturi Aerators							
	A-6 – 12/3/18	Significar	nt modifications to the WWTF)					
	Degree of			Avg Annual					
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)					
	Secondary With								
Industrial	Ammonia Reduction	Activated Sludge	Hypochlorite						
Maria Dall	0	1		D's sull'I					
Maximum Daily		Lood Status	Dissolido Treatment	Biosolids					
(MGD)	(IDS/day)		biosolias i reatment	Use/Disposal					
0.80	16,700	Not Overloaded	Holding Tank	Landfill					

Changes Since Last Permit Issuance: Modifications to the treatment system under WQM Permit 1908201 Amendment No. 6 listed above were completed.

Other Comments: Treatment consists of influent lift station, screening, equalization, coagulation, flocculation, dissolved air flotation, anoxic treatment, aeration, clarification and sodium hypochlorite disinfection system, chlorine contact tank, sludge holding.

Stormwater Discharges from Industrial Activities

As a SIC code 2047 facility, stormwater discharges from the facility are subject to the requirements of 40 CFR 122.26(b)(14).

Four stormwater outfalls have been identified to discharge from the facility as enumerated below.

Outfall Number	Discharge to:
002	Susquehanna River (Canal)
003	Infiltration
004	Infiltration
006	Susquehanna River

As a SIC code 2047 facility it would be subject to Appendix I (Food and Kindred Products) of the PAG-03 and its monitoring requirements and therefore, the relevant monitoring requirements of Appendix I will be included in this NPDES Permit. Specifically, Appendix I facilities must monitor stormwater discharges twice per year for Total Nitrogen (new), Total Phosphorus (new), pH, BOD₅, Total Suspended Solids, Chemical Oxygen Demand, NO₂-NO₃, and Oil and Grease. In addition, benchmark values are included for five of these parameters at 9.0 SU for pH, 30 mg/L for BOD₅, 100 mg/L for TSS, 120 mg/L for COD, and 30 mg/L for Oil and Grease.

These monitoring requirements will be included in PA0009270 for two representative stormwater outfalls draining to surface waters, 002 and 006.

Regarding the impairment listed on the previous page, the stormwater discharges are not reasonably expected to be contributing to the impairment for Mercury or PCBs due to the nature of the facility. The impairment from sedimentation, Aluminum, and Iron were listed by the Department in July 2023 after the receipt of this renewal application in April 2023 and therefore, no additional monitoring of the stormwater discharges will be required for these parameters at this time.

Compliance History

DMR Data for Outfall 001 (from December 1, 2022 to November 30, 2023)

Parameter	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22
Flow (MGD) Average Monthly	0.41	0.36	0 33	0 44	0.31	0.42	0.36	0 34	04	0.41	0.33	0.39
Flow (MGD)	0.41	0.00	0.00	0.11	0.01	0.42	0.00	0.04	0.4	0.41	0.00	0.00
Daily Maximum	0.63	0.54	0.63	0.66	0.59	0.61	0.54	0.57	0.56	0.56	0.56	0.586
pH (S.U.)												
Minimum	7.3	7.9	7.9	7.8	7.8	7.7	7.8	7.7	7.8	7.7	7.7	7.0
pH (S.U.)												
Instantaneous												
Maximum	8.2	8.1	8.0	8.1	8.0	8.1	8.2	8.3	8.1	8.0	8.1	7.6
DO (mg/L)												
Instantaneous												
Minimum	4	3.6	3.7	3.4	3.5	3.3	3.5	4	4	4.4	4.9	4.8
TRC (mg/L)	0.05	0.05	0.40	0.07	0.04		0.05	0.00	0.05	0.00		0.00
Average Monthly	0.35	0.25	0.19	0.27	0.21	0.2	0.25	0.28	0.25	0.38	0.3	0.33
IRC (mg/L)												
Instantaneous	0.50	0.55	0.49	0.40	0.44	0.4	0.54	0.5	0.55	0.55	0.55	0.51
	0.56	0.55	0.48	0.42	0.41	0.4	0.51	0.5	0.55	0.55	0.55	0.51
BOD5 (IDS/day)	- 12	- 22	- 8	< 50	- 0	- 13	~ 10	- 7	- 0	- 0	- 11	- 8
	< 12	< 23	< 0	< 50	< 9	< 43	< 10	<1	< 9	< 9	< 14	< 0
Daily Maximum	24	55	16	166	13	114	10	< 10	13	13	< 23	< 11
BOD5 (mg/L)												
Average Monthly	< 2.66	< 8.08	< 2.32	< 12.33	< 2.24	< 10.09	< 2.43	< 2.15	< 2.38	< 2.23	< 5.1	< 2
BOD5 (mg/L)												
Daily Maximum	5.01	23.7	3.21	41.5	2.72	29.2	2.74	2.58	3.85	2.93	< 10.9	< 3
TSS (lbs/day)												
Average Monthly	41	< 37	< 32	< 22	< 22	< 54	< 24	29	67	< 22	< 16	< 22
TSS (lbs/day)												
Daily Maximum	98	90	84	28	30	154	30	60	112	29	< 23	34
TSS (mg/L)												
Average Monthly	9	< 9	< 8	< 5	< 5	< 12	< 6	8	17	< 6	< 5	< 6
TSS (mg/L)				_				10				
Daily Maximum	21	20	17	7	6	33	8.0	16	33	8.0	6	9
Total Dissolved Solids												
(lbs/day)	44.00	4.400		0000	0504	0007	1000	0070	1100	450.4	4704	1000
Daily Maximum	4168	4468	5/5/	3086	3594	3697	4002	2376	4460	4594	1784	4300

NPDES Permit Fact Sheet Big Heart Pet Brands Inc/Bloomsburg Plant

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Total Dissolved Solids												
(mg/L) Deily Meximum	1020	002	1170	774	017	906	041	622	055	1000	764	1000
Daily Maximum	1020	992	1170	111	917	000	941	033	900	1000	704	1090
Average Monthly	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Oil and Grease (mg/L)												
Instantaneous												
Maximum	< 5	25.3	< 5.2	< 5.4	< 5	< 5	< 5	< 5	< 5	< 5.7	< 5	< 5
Fecal Coliform												
(No./100 ml)												
Geometric Mean			< 3	< 2	< 1	< 1	< 1					
Fecal Coliform												
(No./100 ml)												
Instantaneous	4	4	27	50	. 1	4	4	4	0	7 5	10	. 1
	4	1	37	58	< 1	4	1	I	8	7.5	10	< 1
Nitrate-Initrite (mg/L)	5 76	73	7 85	~ 3 320	4.03	1 73	1 17	5.06	6 80	1 81	~ 3 38	514
Nitrato Nitrito (lbs)	5.70	7.5	7.00	< 5.525	4.05	4.75	4.47	5.00	0.03	4.04	< 3.50	5.14
Total Monthly	725	846	752	< 444	425	588	16	546	840	527	< 295	594
Total Nitrogen (mg/L)	0	0.0						0.0	0.0		1200	
Average Monthly	8.56	8.55	10.19	5.725	5.28	6.98	6.76	6.08	10.13	6.84	4.38	6.57
Total Nitrogen (lbs)												
Effluent Net Total												
Monthly	1105	1026	1119	733	< 541.4	889	827	655.7	1267.4	< 681.4	< 411.3	721.1
Total Nitrogen (lbs)	4405	4000	1110	700			007	050	4000		105	700
Total Monthly	1105	1026	1119	733	688	889	827	653	1232	/5/	< 435	766
Ammonia (Ibs/day)	- 2	- 1	- 1	- 2	- 1	- 2	- 1	- 1	. 2	- 91	- 2	- 2
	< 2	< 1	< 1	< 2	< 1	< 2	< 1	< 1	< 3	< 04	< 2	< 3
Ammonia (ibs/day) Daily Maximum	< 2	< 2	< 2	< 2	< 2	2	< 2	< 2	< 4	< 4	< 4	< 4
Ammonia (mg/L)	~ 2	~ 2	~ 2	~ 2	~ 2	<u> </u>	~ 2	~ 2	~ ~ ~			~ 1
Average Monthly	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.7	< 0.8	< 0.8	< 0.8
Ammonia (mg/L)									-			
Daily Maximum	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.8	< 0.8	< 0.8	< 0.8
Ammonia (lbs)												
Total Monthly	< 49	< 45	< 39	< 51	< 44	< 51	< 45	< 41	< 85	< 84	< 69	< 91
Ammonia (lbs)												
Total Annual			< 976									
IKN (mg/L)	2.266	. 1 006	. 1 0 1 0	- 1 25	- 1 0 1 4	. 1 704	. 1 510	1 1	2.27	. 1 2 1 7	10.954	1.076
Average Monthly	2.200	< 1.280	< 1.842	< 1.25	< 1.044	< 1.721	< 1.519	1.4	2.21	< 1.347	< 0.854	1.076
Total Monthly	200	< 150	c 178	~ 150	~ 116	~ 220	< 173	151	270	~ 1/18	~ 70	124
Total Phosphorus	230	< 100	< 170	100	< 110	< 220	× 175	101	210	< 1 4 0	~10	127
(mg/L)												
Average Monthly	5.8	7.3	11.6	5.77	< 2.29	< 1.84	3.5	4.6	9.1	10.3	8	2.7

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Total Phosphorus (lbs)												
Effluent Net Total												
Monthly	721.4	849.3	1045	760.5	< 221	< 223	406	467.6	1104	1099	727.4	295
Total Phosphorus (lbs)												
Total Monthly	721	849	1045	760	< 221	< 223	406	499	1104	1099	727	295
Sulfate (mg/L)												
Daily Maximum	46.9	42.8	50.8	55.4	61.2	63.5	43.2	42.8	45.3	43.7	48.2	45.4
Chloride (mg/L)												
Daily Maximum	305	286	310	229	264	306	237	171	320	332	292	339
Bromide (mg/L)												
Daily Maximum	1.72	1.62	0.352	1.62	1.92	2.65	2.17	0.982	1.97	9.12	2.54	3.86

DMR Data for Outfall 002 (from December 1, 2022 to November 30, 2023)

Parameter	NOV-23	OCT-23	SEP-23	AUG-23	JUĹ-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22
pH (S.U.)												
Daily Maximum						8.4						7.8

	Compliance History, Cont'd									
Summary of Inspections:	The facility has been inspected at least annually by the Department over the past permit term. The most recent inspection of the facility by the Department on February 28, 2023 identified prior eDMR effluent violations but no operational violations at the time of inspection.									
Other Comments:	There are no open violations in eFACTS for Big Heart Pet Brands or Post Consumer Brands, Inc. The permittee received an NOV on July 12, 2023 for an unauthorized discharge of green dye.									

Existing Effluent Limitations and Monitoring Requirements – Outfall 001

			Effluent L	imitations			Monitoring Re	quirements
Devementer	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	ions (mg/L)		Minimum ⁽²⁾	Required
Parameter	Average	Daily		Average	Daily	Instant.	Measurement	Sample
	Monthly	Maximum	Minimum	Monthly	Maximum	Maximum	Frequency	Туре
Flow (MGD)	Report	Report	ххх	XXX	xxx	ххх	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	xxx	xxx	Report Inst Min	xxx	xxx	ххх	1/day	Grab
TRC	XXX	xxx	ххх	0.5	xxx	1.6	1/day	Grab
BOD5	253	506	xxx	Report	Report	189	1/week	24-Hr Composite
TSS	307	615	XXX	Report	Report	200	1/week	24-Hr Composite
Total Dissolved Solids	XXX	Report	XXX	xxx	Report	xxx	1/month	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/week	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	XXX	xxx	400	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	400	1/week	Grab
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Nitrate-Nitrite (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen	XXX	XXX	XXX	Report	XXX	ххх	1/month	Calculation
Total Nitrogen (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	ХХХ	1/month	Calculation
Total Nitrogen (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Ammonia	Report	Report	XXX	7.8	13.3	19.5	2/week	24-Hr Composite
Ammonia (lbs)	Report Total Mo	XXX	XXX	xxx	XXX	XXX	1/month	Calculation

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

			Effluent L	imitations			Monitoring Requirements		
Baramatar	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum ⁽²⁾	Required			
Faranieter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
TKN	xxx	xxx	xxx	Report	xxx	xxx	2/week	24-Hr Composite	
TKN (lbs)	Report Total Mo	xxx	xxx	xxx	XXX	xxx	1/month	Calculation	
Total Phosphorus	xxx	xxx	xxx	Report	xxx	xxx	2/week	24-Hr Composite	
Total Phosphorus (lbs) Effluent Net	Report Total Mo	XXX	XXX	xxx	xxx	xxx	1/month	Calculation	
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	xxx	xxx	xxx	1/month	Calculation	
Sulfate	XXX	XXX	XXX	xxx	Report	XXX	1/month	24-Hr Composite	
Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/month	24-Hr Composite	
Bromide	xxx	XXX	XXX	xxx	Report	xxx	1/month	24-Hr Composite	

Existing Effluent Limitations and Monitoring Requirements – Chesapeake Bay Outfall 001									
		Effluent Limitations							
Baramatar	Mass Unit	s (Ibs/day) ⁽¹⁾		Concentra	Minimum ⁽²⁾	Required			
Parameter	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Total Nitrogen (lbs) Effluent Net	XXX	33,196 Total Annual	XXX	xxx	xxx	xxx	1/year	Calculation	
Total Nitrogen (lbs)	XXX	Report Total Annual	XXX	ххх	xxx	ххх	1/year	Calculation	
Ammonia (lbs)	XXX	Report Total Annual	XXX	ххх	xxx	ххх	1/year	Calculation	
Total Phosphorus (lbs) Effluent Net	XXX	1,492 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation	
Total Phosphorus (lbs)	XXX	Report Total Annual	XXX	ХХХ	XXX	ХХХ	1/year	Calculation	

Existing Effluent Limitations and Monitoring Requirements – Stormwater Outfalls 002 and 006										
		Effluent Limitations								
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentra		Minimum ⁽²⁾	Required			
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type		
pH (S.U.)	XXX	xxx	XXX	XXX	Report	ххх	1/6 months	Grab		
BOD5	xxx	ххх	XXX	XXX	Report	ХХХ	1/6 months	Grab		
COD	xxx	XXX	XXX	XXX	Report	XXX	1/6 months	Grab		
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab		
Oil and Grease	XXX	xxx	XXX	XXX	Report	xxx	1/6 months	Grab		
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	ХХХ	1/6 months	Grab		

Development of Effluent Limitations

Outfall No.	001	_	Design Flow (MGD)	0.5
Latitude	41º 1' 16.16"	_	Longitude	-76º 20' 43.68"
Wastewater D	Description:	Effluent		

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
рН	6.0 – 9.0 S.U.	Min – Max	-	95.2(1)
Oil and Grease	15	Average Monthly	-	95.2(2)(ii)
	30	IMAX	-	95.2(2)(ii)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: The above limits are applicable and are already included in the existing permit and will remain. No Effluent Limitation Guidelines (ELGs) specifically apply to the facility but two sections have historically been considered useful for the derivation of limits for it. 40 CFR 406 Subpart G applies to the manufacture of animal feeds primarily using grains and grain by-products. 40 CFR 432 Subpart I applies to canned meats. See below under BPJ for additional information on the derivation of technology-based effluent limits.

Best Professional Judgment (BPJ) Limitations

Because no ELGs are directly applicable to the facility, BPJ limitations have been based on both 40 CFR 406 Subpart G (Animal Feed Subcategory) and 40 CFR 432 Subpart I (Canned Meat Processors).

The permittee has indicated that the approximate ratio of Wet versus Dry pet food production is 40%:60%. Therefore, this ratio will be used to develop the technology-based limits. 40 CFR 432 (I) includes factors for converting the pounds of production to limitations in pounds of pollutants for BOD5, TSS and NH3-N. 40 CFR 406 (G) states that "(t)here shall be no discharge of process waste water pollutants to navigable waters." Based on these, pollutant loading limits are based on only the wet portion of the facility's production. The relevant texts of these regulations are attached (Attachment B).

See Attachment C for the spreadsheet used for the derivation of the tech limits for BOD5, TSS and Oil and Grease. Included are the Oil and Grease limitations from 25 PA Code 95. Calculations for a BOD instantaneous maximum are determined from the effective monthly average concentration multiplied by a peaking factor of 2.5. Also listed are the highest levels seen for these parameters from the past year of eDMR data for reference.

The previous and proposed limitations for these three parameters are listed in the table below. Due to the nature of industrial production and as typical for technology-based limits for industrial facilities derived from ELGs, Average Monthly and Daily Maximum concentration limits will again not be included for BOD5 and TSS. The Oil and Grease limits from 25 PA Code 95 remain the most stringent and will remain. No Daily Maximum concentration will be included for Oil and Grease.

U 1								
	Loading	(lb/day)	Concentration (mg/L)					
Parameter	Average Monthly	Daily Maximum	Average Monthly	Daily Maximum	Instant. Maximum			
BOD5 - Existing	253	506	Report	Report	189			
BOD5 - Proposed	215	431	Report	Report	129			
TSS - Existing	307	615	Report	Report	200			
TSS - Proposed	262	525	Report	Report	157			
Oil and Grease - Existing	XXX	XXX	15	ХХХ	30			
Oil and Grease - Proposed	XXX	XXX	15	XXX	30			

Existing and Proposed Limitations for BOD₅, TSS, and Oil and Grease.

These limits are achievable based on the current eDMR data.

Ammonia-Nitrogen

The ammonia limits from §432.93 are not applied due to the higher organ and urea content in the scrap meat used here. The existing ammonia-nitrogen limits were based on EPA derivations in the Technical Support Document for Water Quality Based Toxics Control using a log-normal distribution for daily maximum and monthly average limits determined from a 104 data point set for the 2000 permit. This was the result of a consent agreement between the Department and a former permittee (Heinz Corporation) when they were unable to comply with original BPJ limits derived from 40 CFR 432. Therefore, the existing ammonia-nitrogen limits will remain unchanged.

Fecal Coliform

The existing Fecal Coliform Limit of 400 No./100 ml is also taken from 40 CFR Subpart I and will remain. The existing summer geometric mean of 200 No./100 ml taken from 25 PA Code 92a.47 will also remain.

Water Quality-Based Limitations

BOD, NH3, & DO

The WQM7.0 model allows the Department to evaluate point source discharges of dissolved oxygen (DO), carbonaceous BOD (CBOD₅), and ammonia-nitrogen (NH₃-N) into free-flowing streams and rivers. To accomplish this, the model simulates two basic processes: the mixing and degradation of NH₃-N in the stream and the mixing and consumption of DO in the stream due to the degradation of CBOD₅ and NH₃-N. WQM7.0 modeling was performed (see Attachment D) for the discharge to the Susquehanna River and showed that no limitations are necessary beyond the BPJ-based treatment limits explained above.

Toxics Management

A "Reasonable Potential Analysis" was performed to determine additional parameters with the reasonable potential to violate water quality standards (see the Toxics Management Spreadsheet, Attachment E). The Toxics Management Spreadsheet (TMS) is a mass-balance water quality analysis model that includes consideration for mixing and other factors to determine recommended water quality-based effluent limits. The model incorporates the water quality criteria of 25 Pa.Code §93.

The reasonable potential analysis found no additional parameters as candidates for limitations in the NPDES permit. The existing permit includes monitoring for Total Dissolved Solids (TDS), Chloride, Bromide and Sulfates due to the loading of TDS discharged. The TDS concentration over the past permit term per available eDMR data has averaged 1025 mg/L and this monitoring will remain but at a reduced frequency from monthly to quarterly. The results for the other parameters warrant no further monitoring at this time per the attached Toxics Management Spreadsheet.

Total Residual Chlorine

The existing technology-based limit of 0.5 mg/L from 25 PA Code 92a.48(b)(2) is adequate to protect the receiving stream given the significant dilution in the Susquehanna River.

Chesapeake Bay/Nutrient Requirements

A portion of the Chesapeake Bay and many of its tidal tributaries have been listed as impaired under Section 303(d) of the Water Pollution Control Act, 33 U.S.C. §1313(d). Total Nitrogen and Total Phosphorus cap loads have been established for significant dischargers in Pennsylvania to reduce the total nutrient load to the Bay and meet State of Maryland Water Quality Standards. The subject facility is considered a Chesapeake Bay Significant Industrial Wastewater discharger. Nutrient cap loadings have previously been established for this facility pursuant to the Phase III Watershed Implementation Plan wastewater supplement (currently identified there as former permittee Del Monte Corp.).

The discharge's cap loadings as well as the actual Total Nitrogen and Total Phosphorus loadings for the past two cycle years are listed in the table below. The permittee purchased Total Phosphorus credits for both the 2021-2022 and 2022-2023 compliance years.

Nutrient	Total Nitrogen (lbs)	Total Phosphorus (lbs)
Nutrient Cap Loads for PA0028681	33,196	1,492
10/1/21 – 9/30/22 Net Mass Load	<13,317	1,449
10/1/21 – 9/30/22 Total Mass Load	<13,317	18638
10/1/21 – 9/30/22 Pounds Purchased*	0	17,189*
10/1/22 – 9/30/23 Net Mass Load	<9,217	1,427

10/1/22 – 9/30/23 Total Mass Load	<9,217	8,383
10/1/22 – 9/30/23 Pounds Purchased*	0	6,956*

*Pounds purchased is determined by dividing the purchased credits by the TP delivery ratio of 0.483.

Chemical Additives

The permittee has identified five chemical additives currently used at the facility which are discharged from the facility. These additives are on the Department's approved list and have previously been approved for use.

E. Coli

E. Coli monitoring will be introduced at this time due to changes at §92a.61 of the Department's regulations and current policy. Quarterly monitoring is proposed for this 0.5 MGD discharge.

Anti-Backsliding

No proposed effluent limitations in this draft permit are less stringent than the existing limits consistent with the antibacksliding requirements of the Clean Water Act and 40 CFR 122.44(I).

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.

			Effluent I	imitations			Monitoring Requirements	
Devementer	Mass Units	s (Ibs/day) ⁽¹⁾		Concentrat	ions (mg/L)		Minimum ⁽²⁾	Required
Parameter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report	ххх	xxx	xxx	ххх	Continuous	Metered
рН (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	xxx	Report Inst Min	XXX	xxx	xxx	1/day	Grab
TRC	XXX	XXX	xxx	0.5	XXX	1.6	1/day	Grab
BOD5	212	431	XXX	Report	Report	129	1/week	24-Hr Composite
TSS	262	525	XXX	Report	Report	157	1/week	24-Hr Composite
Total Dissolved Solids	xxx	Report	xxx	xxx	Report	xxx	1/quarter	24-Hr Composite
Oil and Grease	XXX	XXX	xxx	15	XXX	30	1/week	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	XXX	XXX	400	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	400	1/week	Grab
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Nitrate-Nitrite (lbs)	Report Total Mo	XXX	xxx	xxx	XXX	xxx	1/month	Calculation
Total Nitrogen	XXX	xxx	xxx	Report	xxx	xxx	1/month	Calculation
Total Nitrogen (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen (lbs)	Report Total Mo	ХХХ	ХХХ	XXX	XXX	ХХХ	1/month	Calculation

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

		Monitoring Requirements						
Baramatar	Mass Units	(lbs/day) ⁽¹⁾		Concentra	tions (mg/L)		Minimum ⁽²⁾	Required
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Ammonia	Report	Report	xxx	7.8	13.3	19.5	2/week	24-Hr Composite
Ammonia (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
TKN	XXX	XXX	XXX	Report	XXX	ХХХ	2/week	24-Hr Composite
TKN (lbs)	Report Total Mo	XXX	XXX	ХХХ	XXX	ХХХ	1/month	Calculation
Total Phosphorus	XXX	XXX	XXX	Report	XXX	ХХХ	2/week	24-Hr Composite
Total Phosphorus (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	ХХХ	1/month	Calculation
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	ХХХ	ХХХ	ХХХ	1/month	Calculation
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab
Total Iron	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Total Aluminum	XXX	XXX	XXX	ХХХ	Report Daily Max	ХХХ	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: TDS monitoring frequency has reduced from monthly to quarterly as mentioned above. Sulfate, Chloride, and Bromide monitoring are removed as also mentioned above. E. Coli monitoring is new as also mentioned above. BOD₅ and TSS limitations have been updated as mentioned above. Total Iron and Total Aluminum monitoring are new associated with known impairment to the Susquehanna River.

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.

				Monitoring Requirements				
Baramatar	Mass Units	(lbs/day) ⁽¹⁾		Concentrat		Minimum ⁽²⁾	Required	
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Total Nitrogen	XXX	xxx	xxx	xxx	Report	xxx	1/6 months	Grab
Total Phosphorus	ХХХ	xxx	xxx	XXX	Report	XXX	1/6 months	Grab
pH (S.U.)	ХХХ	xxx	xxx	XXX	Report	XXX	1/6 months	Grab
BOD5	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 002

Other Comments: Total Nitrogen and Total Phosphorus monitoring are new.

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 006, Effective Period: Permit Effective Date through Permit Expiration Date.

				Monitoring Requirements				
Baramatar	Mass Units	(lbs/day) ⁽¹⁾		Concentrat		Minimum ⁽²⁾	Required	
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Total Nitrogen	XXX	xxx	xxx	xxx	Report	xxx	1/6 months	Grab
Total Phosphorus	ХХХ	xxx	xxx	XXX	Report	XXX	1/6 months	Grab
pH (S.U.)	ХХХ	xxx	xxx	XXX	Report	XXX	1/6 months	Grab
BOD5	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 006

Other Comments: Total Nitrogen and Total Phosphorus monitoring are new.

The limitations and monitoring requirements specified below are proposed for the draft permit, to comply with Pennsylvania's Chesapeake Bay Tributary Strategy.

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

			Monitoring Requirements					
Parameter	Mass Units	s (Ibs/day) ⁽¹⁾		Concentrat	Minimum ⁽²⁾	Required		
Farameter	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Total Nitrogen (lbs) Effluent Net	ххх	33,196 Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Total Nitrogen (lbs)	ххх	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Ammonia (lbs)	xxx	Report Total Annual	XXX	xxx	xxx	xxx	1/year	Calculation
Total Phosphorus (lbs) Effluent Net	ххх	1,492 Total Annual	XXX	xxx	xxx	xxx	1/year	Calculation
Total Phosphorus (lbs)	xxx	Report Total Annual	XXX	xxx	xxx	xxx	1/year	Calculation

Compliance Sampling Location: Outfall 001

	Tools and References Used to Develop Permit
	WQM for Windows Model (see Attachment D)
	Toxics Management Spreadsheet (see Attachment E)
	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.
\square	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
\square	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
\square	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.
\boxtimes	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.
\square	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.
	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
\square	Design Stream Flows, 391-2000-023, 9/98.
	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
\times	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
	SOP: Establishing Effluent Limitations for Individual Sewage Permits, 03/21, Establishing Effluent Limitations for Individual Industrial Permits, 9/10/13
	Other:

Attachments:

- A. Discharge Location Map
 B. 40 CFR 406(g) and 432(l)
 C. Derivation of BPJ Limits

- D. WQM7.0
- E. Toxics Management Spreadsheet



ELECTRONIC CODE OF FEDERAL REGULATIONS

e-CFR data is current as of June 21, 2018

Title 40 - Chapter I - Subchapter N - Part 406 - Subpart G

Title 40: Protection of Environment PART 406-GRAIN MILLS POINT SOURCE CATEGORY

Subpart G-Animal Feed Subcategory

Contents

§406.70 Applicability; description of the animal feed subcategory.

§406.71 Specialized definitions.

§406.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

§406.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

§406.74 [Reserved]

§406.75 Standards of performance for new sources.

§406.76 Pretreatment standards for new sources.

§406.77 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).

SOURCE: 40 FR 918, Jan. 3, 1975, unless otheiwise noted.

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§406.70 Applicability; description of the animal feed subcategory.

The provisions of this subpart are applicable to discharges resulting from the manufacturing of animal feeds (formula feed concentrate) using primarily grain and grain by-products which may be supplemented by proteins, pharmaceuticals, vitamins or mineral additives.

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§406.71 Specialized definitions.

For the purpose of this subpart: The general definitions, abbreviations and methods of analysis set forth in 40 CFR part 401 shall apply to this subpart.

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§406.72 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.

Except as provided in §§125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT): There shall be no discharge of process waste water pollutants to navigable waters.

[60 FR 33937, June 29, 1995]

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§406.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.

The following limitations establish the quantity or quality of pollutants or pollutant properties, which may be discharged by a point source subject to the provisions of this subpart after application of the best available technology economically achievable: There shall be no discharge of process waste water pollutants to navigable waters.

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§406.74 [Reserved]

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§406.75 Standards of performance for new sources.

The following standards of performance establish the quantity or quality of pollutants or pollutant properties which may be discharged by a new source subject to the provisions of this subpart: There shall be no discharge of process waste water pollutants to navigable waters.

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§406.76 Pretreatment standards for new sources.

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR part 403. In addition, the following pretreatment standard establishes the quantity or quality of pollutants or pollutant properties, controlled by this section, which may be discharged to a publicly owned treatment works by a new point source subject to the provisions of this subpart.

Pollutant or pollutant property	Pretreatment standard
pH	No limitation.
BODS	Do.
TSS	Do.

[40 FR 918, Jan. 3, 1975, as amended at 60 FR 33937, June 29, 1995]

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§406.77 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT).

Except as provided in §§125.30 through 125.32, any existing point source subject to this subpart shall achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT): The limitations shall be the same as those specified for conventional pollutants (which are defined in §401.16) in §406.72 of this subpart for the best practicable control technology currently available (BPT).

[51 FR 24997, July 9, 1986]

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Need assistance?

ELECTRONIC CODE OF FEDERAL REGULATIONS

e-CFR data is current as of June 21, 2018

Title 40 ---> Chapter I ---> Subchapter N ---> Part 432 -, Subpart I

Title 40: Protection of Environment PART 432-MEAT AND POULTRY PRODUCTS POINT SOURCE CATEGORY

Subpart I-Canned Meats Processors

Contents

§432.90 Applicability.

§432.91 Special definitions.

§432.92 Effluent limitations attainable by the application of the best practicable control technology currently available (BPT).

§432.93 Effluent limitations attainable by the application of the best available technology economically achievable (BAT).

§432.94 Pretreatment standards for existing sources (PSES). [Reserved]

§432.95 New source performance standards (NSPS).

§432.96 Pretreatment standards for new sources (PSNS). [Reserved]

§432.97 Effluent limitations attainable by the application of the best control technology for conventional pollutants (BCT).

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§432.90 Applicability.

This part applies to discharges of process wastewater resulting from the production of canned meats, alone or in combination with any other finished products, by a canned meats processor.

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§432.91 Special definitions.

For the purpose of this subpart:

(a) Canned meats processor means an operation which prepares and cans meats (stew, sandwich spreads, or similar products), alone or in combination with other finished products, at rates greater than 6000 lbs (2730 kg) per day.

(b) *Finished products* means the final product, such as fresh meat cuts which includes steaks, roasts, chops or boneless meat, smoked or cured hams, bacon or other smoked meats, sausage, bologna or other luncheon meats, stews, sandwich spreads _or other canned meats.

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§432.92 Effluent limitations attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BPT:

(a) Facilities that generate no more than 50 million pounds per year of finished products must achieve the following effluent limitations:

EFFLUENT LIMITATIONS

[BPT]

Regulated parameter	Maximum daily ¹	Maximum monthly avg. ¹
BODs	0.74	0,37
Fecal Coliform	()	(י)
O&G ⁴	0.26	0.13
TSS	0.90	0.45

¹Pounds per 1000 lbs (or g/kg) of finished product.

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'Maximum of 400 MPN or CFU per 100 ml at any time.

³No maximum monthly average limitation.

⁴May be measured as hexane extractable material (HEM).

(b) Facilities that generate more than 50 million pounds per year of finished products must achieve the limitations for BODs, fecal coliform, O&G, and TSS specified in paragraph (a) of this section.

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§432.93 Effluent limitations attainable by the application of the best available technology economically achievable (BAT).

Except as provided by 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BAT:

(a) Facilities that generate no more than 50 million pounds per year of finished products must achieve the following effluent limitations:

EFFLUENT LIMITATIONS

[BAT]

Regulated parameter	Maximum daily ¹	Maximum monthly avg. ¹
Ammonia (as N)	8.0	4.0

¹mg/L (ppm).

(b) Facilities that generate more than 50 million pounds per year of finished products must achieve the following effluent limitations:

EFFLUENT LIMITATIONS

[BAT]

Regulated parameter	Maximum daiiy¹	Maximum monthly avg. ¹
Ammonia (as N)	8.0	4.0
Total Nitrogen	194	134

¹mg/L (ppm).

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§432.94 Pretreatment standards for existing sources (PSES). [Reserved]

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§432.95 New source performance standards (NSPS).

Except as provided in paragraph (c) of this section, any source that is a new source subject to this subpart must achieve the following performance standards:

(a) Facilities that generate no more than 50 million pounds per year of finished products must achieve the standards for BODs, fecal coliform, O&G, and TSS specified in §432.92(a).

(b) Facilities that generate more than 50 million pounds per year of finished products must achieve the limitations for BODs, fecal coliform, O&G, and TSS specified in §432.92(b) and the limitations for ammonia (as N) and total nitrogen specified in §432.93(b).

(c) Any source that was a new source subject to the standards specified in §432.95 of title 40 of the Code of Federal Regulations, revised as of July 1, 2003, must continue to achieve the standards specified in this section until the expiration of the applicable time period specified in 40 CFR 122.29(d)(1) after which it must achieve the effluent limitations specified in §§432.92 and 432.93.

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§432.96 Pretreatment standards for new sources (PSNS). [Reserved]

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§432.97 Effluent limitations attainable by the application of the best control technology for conventional pollutants (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BCT: Limitations for BODs, fecal coliform, O&G, and TSS are the same as the corresponding limitation specified in §432.92.

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Need assistance?

Post Consumer Brands NPDES No. PA0009270 South Centre Township, Columbia County

Derivation of Technology-Based Limits Post Consumer Brands PA0009270

Ave. Flow=0.5 MGDAve. Production =230000 Tons/yearAve. Production =1459205.685 lbs/dayPercent Wet=40 %Wet Production=583682.2738 lbs/day

		N	1onthly Ave	rage			Maximu	m Daily		Instant. N	/laximum
	40 CFR 406 (G)	BPJ Limit	BPJ Limit	Max past year	Ch 95 Limit	40 CFR 406 (G)	BPJ Limit	BPJ Limit	Max past year	Ch 95 Limit	BPJ Limit
Units:	lb/1000 lb	lb/day	mg/L	mg/L	mg/L	lb/ 1000 lb	lbs/day	mg/L	mg/L	mg/L	mg/L
BOD5	0.37	215.96	51.79	<12.33		0.74	431.92	103.58	41.5		129.47
0&G	0.13	75.88	18.20	<10	15	0.26	151.76	36.39	25.3 (IMAX)	30	45.49
TSS	0.45	262.66	62.99	17		0.9	525.31	125.97	33		157.47

Calculations

Wet Production = Ave. Production x Percent Wet/100

Ave. Prod lbs/day = (Ave. Production(Tons/year) x 2000 lbs/ton)/(12 mo/year X 26.27 Days/month)

BPJ lbs/day limit = (40 CFR 406(G) Factor) x Wet Production /1000

BPJ mg/L limit = (BPJ lbs/day Limit)/(Ave. Flow x 8.34)

BPJ IMax Limit = Monthly Average BPJ Limit x 2.5

		Strea Cod	m e	Stre	eam Name		RMI	Ele	evation (ft)	Drainage Area (sq mi)	Sloj (ft/f	pe PW: Withdr ft) (mg	S awal d)	Apply FC
		66	85 SUSQ	UEHANN	A RIVER		154.66	60	460.00	10544.0	0 0.00	0000	0.00	✓
					St	tream Dat	8							
Design	LFY	Trib Flow	Stream Flow	Rch Trav Timo	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> ıp pH	ł	<u>Stream</u> Temp	pН	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 2	0.00 7	7.00	0.00	0.00	
					Di	scharge [Data							
			Name	Per	mit Number	Existing Disc Flow (mgd)	Permitte Disc Flow (mgd)	ed Desi Dis Flov (mg	ign ic Res w Fa gd)	D erve Te ctor (⁰	visc emp PC)	Disc pH		
		Post	Consumer	PA	0009270	0.5000	0.000	0 0.0	0000	0.000	25.00	7.00		
					Pa	arameter [Data							
			F	Parameter	r Name	Di: Co	sc T onc C	rib onc	Stream Conc	Fate Coef				
	_					(m	g/L) (m	ng/L)	(mg/L)	(1/days)				
			CBOD5				51.79	2.00	0.00	1.50				
			Dissolved	Oxygen			3.00	8.24	0.00	0.00				
			NH3-N				7.80	0.00	0.00	0.70				

Input Data WQM 7.0

		Strea Cod	ım le	Stre	eam Name		RMI	Ele	evation (ft)	Drainage Area (sq mi)	Slo (ft/	pe PW Withdr ft) (mg	S awal Id)	Apply FC
		66	885 SUSQ	UEHANN	A RIVER		137.66	60	139.35	11200.0	0 0.00	0000	0.00	✓
					St	ream Dat	8							
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> ıp pł	4	<u>Stream</u> Temp	<u>і</u> pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 2	0.00	7.00	0.00	0.00	
					Di	scharge [Data							
			Name	Per	mit Number	Existing Disc Flow (mgd)	Permitte Disc Flow (mgd)	ed Desi Dis Flor (mg	ign sc Res w Fa gd)	E erve Te ctor (0isc emp ⁰C)	Disc pH		
						0.0000	0.000	0 0.0	0000	0.000	25.00	7.00		
					Pa	arameter D	Data							
			F	Paramete	r Name	Dis Co	sc T onc C	rib Sonc	Stream Conc	Fate Coef				
			·	aramoto	Hamo	(m	g/L) (n	ng/L)	(mg/L)	(1/days)				
	_		CBOD5				25.00	2.00	0.00	1.50				
			Dissolved	Oxygen			3.00	8.24	0.00	0.00				
			NH3-N			:	25.00	0.00	0.00	0.70				

Input Data WQM 7.0

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	✓
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	✓
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	5		

	SW	P Basin	<u>Strea</u>	m Code				Stream I	Name			
		07K	6	685			SUS	QUEHAN	INA RIVE	R		
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
154.660	1052.50	0.00	1052.50	.7735	0.00357	1.201	606.48	505.11	1.45	0.718	20.00	7.00
Q1-1	0 Flow											
154.660	673.60	0.00	673.60	.7735	0.00357	NA	NA	NA	1.13	0.922	20.01	7.00
Q30-'	10 Flow											
154.660	1431.40	0.00	1431.40	.7735	0.00357	NA	NA	NA	1.72	0.605	20.00	7.00

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code			Stream Name	2	
07K	6685		SUS	QUEHANNA F	RIVER	
<u>RMI</u>	Total Discharge	Flow (mgd	<u>) Ana</u>	lysis Temperat	ure (⁰C)	<u>Analysis pH</u>
154.660	0.500)		20.004		7.000
Reach Width (ft)	Reach De	<u>pth (ft)</u>		Reach WDRa	tio	Reach Velocity (fps)
606.480	1.201	1		505.110		1.446
Reach CBOD5 (mg/L)	<u>Reach Kc (</u>	<u>1/days)</u>	<u>R</u>	<u>each NH3-N (</u> r	ng/L)	Reach Kn (1/days)
2.04	0.017	7		0.01		0.700
Reach DO (mg/L)	<u>Reach Kr (</u>	<u>1/days)</u>		Kr Equation		<u>Reach DO Goal (mg/L)</u>
8.239	24.10	4		Tsivoglou		5
Reach Travel Time (days)	<u> </u>	Subreach	Results			
0.718	TravTime	CBOD5	NH3-N	D.O.		
	(days)	(mg/L)	(mg/L)	(mg/L)		
	0.072	2.03	0.01	8.24		
	0.144	2.03	0.01	8.24		
	0.215	2.03	0.00	8.24		
	0.287	2.03	0.00	8.24		
	0.359	2.02	0.00	8.24		
	0.431	2.02	0.00	8.24		
	0.503	2.02	0.00	8.24		
	0.575	2.02	0.00	8.24		
	0.646	2.01	0.00	8.24		
	0.718	2.01	0.00	8.24		

WQM 7.0 D.O.Simulation

<u>a</u>	07K 0	6685		<u>susqu</u>	<u>ream Name</u> EHANNA RIV	ER	
13-N A	cute Allocation	s					
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
						0	0
154.660	Post Consumer	16.75	15.6	16.75	15.6	0	0
154.660 13-N C	hronic Allocatio	16.75	15.6	16.75	15.6	0	0
154.660 13-N C RMI	hronic Allocation	16.75 DNS Baseline Criterion (mg/L)	15.6 Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	0 Critical Reach	0 Percent Reduction

RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Reach	Reduction	
 154.66 Pos	st Consumer	51.79	51.79	7.8	7.8	3	3	0	0	

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	<u>SWP Basin</u> 07K	Stream Code 6685		<u>Stream Name</u> SUSQUEHANNA F	<u>e</u> RIVER		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
154.660	Post Consume	er PA 0009270	0.500	CBOD5	51.79		
				NH3-N	7.8	15.6	
				Dissolved Oxygen			3

WQM 7.0 Effluent Limits



Discharge Information

Instructions	Disch	arge Stream			
Facility:	Post Co	onsumer Brands	NPDES Permit No.:	PA0009270	Outfall No.: 001
Evaluation T	уре	Custom / Additives	Wastewater Descript	ion: Pet Food Manuf	acture Wastewater

	Discharge Characteristics												
Design Flow Hardness (mg/l)* pH (SU)* Partial Mix Factors (PMFs) Complete Mix Times (min													
(MGD)*	Hardness (mg/l)*	рн (50)*	AFC	CFC	THH	CRL	Q ₇₋₁₀	Q _h					
0.5	0.5 100 7.9												

			0 if lei	ft blank	0.5 if le	eft blank	() if left blan	k	1 if lef	t blank
Discharge Pollutant	Units	Max Discharge Conc	Trib Conc	Stream Conc	Daily CV	Hourly CV	Strea m CV	Fate Coeff	FOS	Criteri a Mod	Chem Transl
Total Dissolved Solids (PWS)	mg/L	1460									
Bromide	mg/L	9.12									
Chloride (PWS)	mg/L	364									
Sulfate (PWS)	mg/L	57.3									



Stream / Surface Water Information

Post Consumer Brands, NPDES Permit No. PA0009270, Outfall 001

• Statewide Criteria

○ Great Lakes Criteria
 ○ ORSANCO Criteria

Instructions	Discharge	Stream

Receiving Surface Water Name: Susquehanna River

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	006685	154.66	460	10544			Yes
End of Reach 1	006685	137.66	439.35	11200		6.5	Yes

Q 7-10

Location	DMI	LFY	Flow	(cfs)	W/D	Width	Depth	Velocit	Timo	Tributa	ary	Stream		Analysis	
Location	TXIVII	(cfs/mi ²)*	Stream	Tributary	Ratio	(ft)	(ft)	y (fps)	(days)	Hardness	pН	Hardness*	pH*	Hardness	pН
Point of Discharge	154.66	0.09982		h de la d						HANNAN		100	1		
End of Reach 1	137.66	0.09982													

No. Reaches to Model:

1

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Location	DMI	LFY	Flow	r (cfs)	W/D	Width	Depth	Velocit	Time	Tributa	ary	Stream	m	Analys	sis
Location	TXIVII	(cfs/mi ²)	Stream	Tributary	Ratio	(ft)	(ft)	y (fps)	(days)	Hardness	pН	Hardness	pН	Hardness	pН
Point of Discharge	154.66														
End of Reach 1	137.66														



Model Results

Post Consumer Brands, NPDES Permit No. PA0009270, Outfall 001

Instructions	Results	RETURN TO INPUTS	SAVE AS PDF	PRINT	IIA (⊖ Inputs	⊖ Results	O Limits	

✓ Hydrodynamics

Q₇₋₁₀

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Time (days)	Complete Mix Time (min)
154.66	1052.50		1052.50	0.774	0.00023	1.13	749.475	663.37	1.244	0.835	42206.891
137.66	1117.98	10.056	1107.9285								

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RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Time (days)	Complete Mix Time (min)
154.66	3253.96		3253.96	0.774	0.00023	1.856	749.475	403.801	2.34	0.444	20064.711
137.66	3430.216	10.056	3420.16								

Wasteload Allocations

	CCT (min):	15	PMF:	0.019	Ana	lysis Hardne	ss (mg/l):	100 Analysis pH: 7.01
Pollutants	Stream Conc (μg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
	CCT (min): 7	20	PMF:	0.131	Ana	Ilysis Hardne	ess (mg/l):	100 Analysis pH: 7.00
Pollutants	Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PVVS)	0	0	///////////////////////////////////////	0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
J THH	CCT (min): 7	20 1	THH PMF:	0.131	Ana	Ilysis Hardne	ess (mg/l):	N/A Analysis pH: N/A PWS PMF: 0.1688

Pollutants	Stream Conc (ug/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	Ű	0		0	500,000	500,000	##########	WQC applied at RIVI 113171. 6 69 with RF1 a design stream flow of
Chloride (PWS)	0	0		0	250,000	250,000	61,245,470	WQC applied at RMI 113171. 6.69 & 4th fa> design stream flow of
Sulfate (PWS)	0	0		0	250,000	250,000	61,245,470	1117.984 cfs
CCT (min): 720 PMF: 0.189 Analysis Hardness (mg/l): N/A Analysis pH: N/A								
Pollutants	Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	

Recommended WQBELs & Monitoring Requirements

4

No. Samples/Month:

	Mass	Limits		Concentra	tion Limits				
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments

Other Pollutants without Limits or Monitoring

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., <= Target QL).

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	122,491	mg/L	Discharge Conc ≤ 10% WQBEL
Bromide	N/A	N/A	No WQS
Chloride (PWS)	61,245	mg/L	Discharge Conc ≤ 10% WQBEL
Sulfate (PWS)	61,245	mg/L	Discharge Conc ≤ 10% WQBEL