

 Application Type
 Renewal

 Facility Type
 Industrial

 Major / Minor
 Minor

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

 Application No.
 PA0058866

 APS ID
 1034347

 Authorization ID
 1346647

Applicant and Facility Information

Applicant Name	Blommer Chocolate Co.	Facility Name	Blommer Chocolate East Greenville Facility
Applicant Address	1101 Blommer Drive	Facility Address	1101 Blommer Drive
	East Greenville, PA 18041-2140	_	East Greenville, PA 18041-2140
Applicant Contact	Tim Campbell	Facility Contact	Tim Campbell
Applicant Phone	(267) 347-2332	Facility Phone	(267) 347-2332
Client ID	4477	Site ID	491646
SIC Code	2066	Municipality	Upper Hanover Township
SIC Description	Manufacturing - Chocolate And Cocoa Products	County	Montgomery
Date Application Rece	ivedMarch 18, 2021	EPA Waived?	Yes
Date Application Acce	pted	If No, Reason	
Purpose of Application	Permit renewal.		

Summary of Review

The permittee submitted a renewal application for their non-contact cooling water, boiler blow down, softener and dealkalizer reject water and storm water discharges to Perkiomen Creek through 4 outfalls.

The facility is operating under SIC 2066 - Chocolate and Cocoa Products - chocolate and confectionary manufacturing from cocoa beans. Production of chocolate and related chocolate products, including whole bean processing, roasting and cocoa butter extraction. Industrial wastewater sources include non-contact blowdown from boilers and cooling towers.

Outfall 001 receives stormwater from the manufacturing building roof drains, concrete loading/unloading areas, as well as additional paved and unpaved surfaces and grass areas on the northern portion of the site.

Outfall 002 receives stormwater from the manufacturing building roof drains, material loading/unloading and material storage areas, as well as paved and unpaved surfaces and grass areas on the eastern portion of the site. Non-process water redirected to Outfall 003.

Outfall 003 receives all non-contact cooling tower discharge, boiler discharge and stormwater from paved and unpaved surfaces and grass areas on the southern portion of the site. Maximum Flow During Production / Operation (MGD): 0.0892.

Outfall 004 receives stormwater from the storage building roof drains, an unpaved trailer parking area, as well as additional unpaved surfaces and grass areas on the western portion of the site. A vegetated sediment basin treats stormwater runoff at Outfall 004. Solids removed from the basin are disposed with plant waste.

Approve	Deny	Signatures	Date
х		Begay Gmuralieva Begay Omuralieva / Environmental Engineering Specialist	9/9/2021
х		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	09/10/2021

Summary of Review

There are following chemical additives are used in wastestream: Dica 66 (sulfuric acid) - Acid neutralization Trexcide 435 - Cooling water treatment (biocide) CW-879L - Cooling water treatment (dispersant) IsoPlus PBB Blend - Boiler treatment (inhibitor) A-5-19 - Stream line treatment Ultrex Plus PBB Blend - Cooling water treatment

New additive is requested to be used: MBC 215-P as cooling water treatment (it is in DEP approved list).

Site visit was conducted on 3/30/2021. No operational violations are noted, but there was an unpermitted discharge of pH 9.59 and TSS exceedances in DMRs noted in p. 8 of this factsheet.

Following Notice of violation for the 5/2//21 pH violation facility has provided following corrective action report:

This letter is in response to the Notice of Violation received at the Blommer Chocolate, East Greenville facility on May 4, 2021. The NOV stated "On 5/2/21 an unidentified white material was discharged through the permitted 003 outfall. This condition is a violation of the NPDES Permit." In follow-up to the Notice of Violation, an investigation was initiated to determine the identity of the aforementioned material as well as the reason for its presence in the permitted discharge from the boiler system to the 003 outfall. As a result of the investigation, it was determined that Alkalized Chocolate Liquor had entered the plant's steam system by way of a damaged steam jacket surrounding a product tank. The alkalized liquor was circulated throughout the plant's entire steam system, undergoing a process called saponification, wherein a fat, oil, or lipid is converted into soap by the action of heat in the presence of aqueous alkali. Eventually, the system's filters were no longer able to function, releasing the contents to the boilers. From there, the contaminate was discharged into a drainage pit that leads to the 003 outfall. Once the material had time to cool, it solidified, creating the hard, white substance that was found.

Representatives of Blommer Chocolate's East Greenville plant worked with multiple vendors to contain, identify, remove, and properly dispose of the discharged material, as well as to determine a root cause and establish an action plan to prevent a recurrence of this event. What follows is a breakdown of the various actions taken in response to the 5/2/21 incident.

Based on the submitted application and summary of the DMR data no changes in quality and quantity of the discharges. Therefore, all previously established effluent limits and monitoring requirements will be proposed in the draft permit except for stormwater monitoring requirements that were revised in accordance statewide stormwater permit to semi-annual sampling (see pp.9-12 of this fact sheet).

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.

Discharge, Receiving	g Waters and Water Supply Informa	ation	
Outfall No. 001, 0	002		
Latitude 40° 2	4' 32.94"	Longitude	-75º 30' 38.14"
Quad Name Eas	st Greenville	Quad Code	1541
Wastewater Descrip	areas, as well as additional	acturing building roof drains, c paved and unpaved surfaces n of the site.	
	Unnamed Tributary to Perkiomen		04.474
Receiving Waters	Creek (TSF, MF)	_ Stream Code	01471
NHD Com ID	25971370	RMI	0.80
Drainage Area	0.18	Yield (cfs/mi ²)	0.194
Q ₇₋₁₀ Flow (cfs)	0.035	Q ₇₋₁₀ Basis	Streamstat
Elevation (ft)		Slope (ft/ft)	
Watershed No.	<u>3-E</u>		TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairn	nent		
Source(s) of Impair	ment		
TMDL Status		Name	
Background/Ambier pH (SU) Temperature (°F) Hardness (mg/L) Other:	nt Data	Data Source	
Nearest Downstrea PWS Waters PWS RMI	m Public Water Supply Intake	Flow at Intake (cfs) Distance from Outfall (mi)	

Changes Since Last Permit Issuance:

NPDES Permit Fact Sheet Blommer Chocolate Co.

Outfall No. 003 Design Flow (MGD) .0225 Latitude 40° 24' 48.29" Longitude -75° 31' 16.41" Quad Name East Greenville Quad Code 1541 Noncontact Cooling Water (NCCW), Stornwater from paved and unpaved Wastewater Description: surfaces and grass areas on the southern portion of the site Receiving Waters Perkiomen Creek (TSF, MF) Stream Code 01017 NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr.to Flow (cfs) 6.9 Qr.to Basis Streamstat Elevation (ft) Slope (ft/ft) Slope (ft/ft) Slope (ft/ft) Watershed No. 3-E Existing Use Existing Use Existing Use Qualifier Exceptions to Use Attaining Use(s) Exceptions to Criteria Assessment Status Attaining Use(s) Cause(s) of Impairment Data Source Mare Hardiness (mg/L) Hardiness (mg/L) Umperature (°F)	Discharge, Receiving Waters and Water Supply Information	ion	
Latitude 40° 24' 48.29' Longitude -75° 31' 16.41" Quad Name East Greenville Quad Code 1541 Noncontact Cooling Water (NCCW), Stormwater from paved and unpaved Wastewater Description: surfaces and grass areas on the southern portion of the site Receiving Waters Perkiomen Creek (TSF, MF) Stream Code 01017 NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr-to Flow (cfs) 6.9 Qr-to Basis Streamstat Elevation (ft) Slope (ft/ft) Waters greated No. 3-E Existing Use Existing Use Existing Use Qualifier Exceptions to Use Attaining Use(s) Exceptions to Criteria Assessment Status Attaining Use(s) Cause(s) of Impairment Source(s) of Impairment Data Source PH (SU) Temperature (°F)			
Quad Name East Greenville Quad Code 1541 Noncontact Cooling Water (NCCW), Stormwater from paved and unpaved Wastewater Description: surfaces and grass areas on the southern portion of the site Receiving Waters Perkiomen Creek (TSF, MF) Stream Code 01017 NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr.10 Flow (cfs) 6.9 Qr.10 Basis Streamstat Elevation (ft) Slope (ft/ft) Slope (ft/ft) Watershed No. 3-E Chapter 93 Class. TSF, MF Existing Use Existing Use Qualifier Exceptions to Use Assessment Status Attaining Use(s) Cause(s) of Impairment Source(s) of Impairment Name Mame Mame Background/Ambient Data Data Source PH (SU) Mame Mame Mame Hardness (mg/L)	Outfall No. 003	Design Flow (MGD)	.0225
Noncontact Cooling Water (NCCW), Stormwater from paved and unpaved surfaces and grass areas on the southern portion of the site Receiving Waters Perkiomen Creek (TSF, MF) Stream Code 01017 NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr.to Flow (cfs) 6.9 Qr.to Basis Streamstat Elevation (ft) Slope (ft/ft) Slope (ft/ft) Watershed No. 3-E Chapter 93 Class. TSF, MF Existing Use Existing Use Qualifier Exceptions to Criteria Assessment Status Assessment Status Attaining Use(s) Cause(s) of Impairment Name Source(s) of Impairment TMDL Status Data Source PH (SU)	Latitude 40° 24' 48.29"	Longitude	-75º 31' 16.41"
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Receiving Waters Perkiomen Creek (TSF, MF) Stream Code 01017 NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr.10 Flow (cfs) 6.9 Qr.10 Basis Streamstat Elevation (ft) Stope (ft/ft) Stope (ft/ft) Watershed No. 3-E Chapter 93 Class. TSF, MF Existing Use Existing Use Qualifier Existing Use Qualifier Image: Comparison of the comparison			
NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr-10 Flow (cfs) 6.9 Qr-10 Basis Streamstat Elevation (ft) Slope (ft/ft)	wastewater Description: <u>surfaces and grass areas on</u>	the southern portion of the si	te
NHD Com ID 25971626 RMI 0.2700 Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr-10 Flow (cfs) 6.9 Qr-10 Basis Streamstat Elevation (ft) Slope (ft/ft)	Passiving Waters – Parkiemen Creek (TSE ME)	Stroom Codo	01017
Drainage Area 35.6 Yield (cfs/mi²) 0.194 Qr-10 Flow (cfs) 6.9 Qr-10 Basis Streamstat Elevation (ft) Slope (ft/ft)			
Qr-10 Flow (cfs) 6.9 Qr-10 Basis Streamstat Elevation (ft) Slope (ft/ft)			
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Watershed No. 3-E Chapter 93 Class. TSF, MF Existing Use Existing Use Qualifier Existing Use Qualifier Exceptions to Use Exceptions to Criteria Exceptions to Criteria Assessment Status Attaining Use(s) Exceptions to Criteria Cause(s) of Impairment Exceptions to Criteria Exceptions to Criteria Source(s) of Impairment Name Exceptions TMDL Status Name Data Source PH (SU) Exceptions (°F) Exceptions (°F) Hardness (mg/L) Exceptions Exceptions Other: Exceptions to Criteria Exceptions to Criteria Nearest Downstream Public Water Supply Intake Flow at Intake (cfs) Exceptions	Elovation (ft)	-	Otreamstat
Existing Use Existing Use Qualifier Exceptions to Use Exceptions to Criteria Assessment Status Attaining Use(s) Cause(s) of Impairment		- Charter 02 Class	TSE ME
Exceptions to Use Exceptions to Criteria Assessment Status Attaining Use(s) Cause(s) of Impairment	Existing Lise	Evisting Lise Qualifier	
Assessment Status Attaining Use(s) Cause(s) of Impairment	Executions to Lise		
Cause(s) of Impairment	•		
Source(s) of Impairment			
TMDL Status Name Background/Ambient Data Data Source pH (SU)			
Background/Ambient Data Data Source pH (SU)		Name	
pH (SU)			-
pH (SU) Temperature (°F) Hardness (mg/L) Other: Nearest Downstream Public Water Supply Intake PWS Waters Flow at Intake (cfs)	Background/Ambient Data)ata Source	
Temperature (°F)	5		
Hardness (mg/L)	· · · · · · · · · · · · · · · · · · ·		
Other:	· · · · · · · · · · · · · · · · · · ·		
Nearest Downstream Public Water Supply Intake			
PWS Waters Flow at Intake (cfs)			
PWS Waters Flow at Intake (cfs)	Nearest Downstream Public Water Supply Intake		
		Flow at Intake (cfs)	
	PWS RMI	Distance from Outfall (mi)	

Changes Since Last Permit Issuance:

NPDES Permit Fact Sheet Blommer Chocolate Co.

Discharge, Receiving Waters and Water Supply Infor	rmation	
Outfall No. 004		
Latitude 40° 24' 46.55"	Longitudo	-75º 31' 16.93"
Quad Name East Greenville	Longitude Quad Code	1541
	age building roof drains, an unpa	
	ed surfaces and grass areas on t	
Receiving Waters Perkiomen Creek (TSF, MF)	Stream Code	01017
NHD Com ID 25971626	RMI	0.2700
Drainage Area 35.6	Yield (cfs/mi ²)	0.194
Q ₇₋₁₀ Flow (cfs)6.9	Q ₇₋₁₀ Basis	Streamstat
Elevation (ft)	Slope (ft/ft)	
Watershed No. <u>3-E</u>	Chapter 93 Class.	TSF, MF
Existing Use	Existing Use Qualifier	
Exceptions to Use	Exceptions to Criteria	
Assessment Status Attaining Use(s)		
Cause(s) of Impairment		
Source(s) of Impairment		
TMDL Status	Name	
Background/Ambient Data	Data Source	
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		
Nearest Downstream Public Water Supply Intake		
PWS Waters	Flow at Intake (cfs)	
PWS RMI	Distance from Outfall (mi)	

Changes Since Last Permit Issuance: none

Compliance History

DMR Data for Outfall 001 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
pH (S.U.)												
Daily Maximum							7.35					
TSS (mg/L)												
Daily Maximum							90.0					
Oil and Grease (mg/L)												
Daily Maximum							12.0					
TKN (mg/L)												
Daily Maximum							1.54					
Total Iron (mg/L)												
Daily Maximum							0.725					

DMR Data for Outfall 002 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
pH (S.U.)												
Daily Maximum							7.38					
TSS (mg/L)												
Daily Maximum							37.0					
Oil and Grease (mg/L)												
Daily Maximum							7.7					
TKN (mg/L)												
Daily Maximum							163					
Total Iron (mg/L)												
Daily Maximum							0.674					

DMR Data for Outfall 003 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
Flow (MGD)												
Average Monthly	0.0513	0.03676	0.0317269	0.036895	0.031618	0.027954	0.0354525	0.031927	0.021581	0.0183184	0.036397	0.032114
Flow (MGD)												
Daily Maximum	0.0908	0.07984	0.048517	0.05042	0.041432	0.035284	0.051661	0.045464	0.041874	0.044063	0.04429	0.056682
pH (S.U.)												
Instantaneous												
Minimum	7.16	7.14	6.65	7.02	6.92	6.93	7.56	7.7	7.97	7.75	8.26	3.22

NPDES Permit Fact Sheet Blommer Chocolate Co.

NPDES Permit No. PA0058866

pH (S.U.) Instantaneous												
Maximum	8.55	10.24	8.76	8.92	8.11	8.58	8.74	8.89	8.84	8.86	8.89	8.95
Temperature (°F)												
Instantaneous												
Maximum	82	106	99.9	88.3	76.3	72.3	84.9	84.6	86.5	87.3	95.18	98.24
TSS (mg/L)												
Average Monthly	2	23	31	10	4	4	32	16	5	2	2	2
TSS (mg/L)												
Daily Maximum	1.9	23	31	10	3.6	4.4	32	16	4.5	1.5	1.5	2.1
Total Dissolved Solids												
(lbs/day)												
Average Monthly	198	268	465	269	307	319	698	258	122	75	378	373
Total Dissolved Solids												
(lbs/day)												
Daily Maximum	198	268	465	269	307	319	698	258	122	75	378	373
Total Dissolved Solids												
(mg/L)												
Average Monthly	690	920	1300	870	1200	1200	2000	810	1300	670	1200	1100
Total Dissolved Solids												
(mg/L)												
Daily Maximum	690	920	1300	870	1200	1200	2000	810	1300	670	1200	1100

DMR Data for Outfall 004 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
pH (S.U.)												
Daily Maximum							7.83					
TSS (mg/L) Daily Maximum							1150					
Oil and Grease (mg/L) Daily Maximum							< 5.0					
TKN (mg/L) Daily Maximum							4.04					
Total Iron (mg/L) Daily Maximum							62.2					

Compliance History

Effluent Violations for Outfall 003, from: August 1, 2020 To: June 30, 2021

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
рН	05/31/21	IMAX	10.24	S.U.	9.0	S.U.
TSS	12/31/20	Avg Mo	32	mg/L	30	mg/L
TSS	04/30/21	Avg Mo	31	mg/L	30	mg/L

Summary of Inspections: no operational violations were noted during inspections.

Following were also reported in the application:

On June 1st 2017, an apparent Dica (sulfuric acid) release was observed to the Blommer outfall #003. Dica is used to neutralize boiler blowdown water that is discharged to Outfall #003. The release was caused by a malfunctioning chemical pump. Pools of very low pH water were observed in a collection basin that lies on the neighbor's (Knoll) property. Several gallons of caustic were taken to the site and used to neutralize the pools of water. DEP visited the site the same day as the release and was satisfied and considered the immediate issue addressed. A NOV was issued on June 2nd, 2017 and Blommer complied and corrected/abated the issue.

On July 8, 2019, drums were being consolidated into 300 gallon totes prior to disposal as scrap steel. The totes were left uncovered and exposed. It rained ~1.3" on July 8, 2019 which caused the totes to overflow. The mixture of oils and water leached to the Outfall 004 retention pond. Residual oils and water was observed on the grass. The totes were drained, booms were set around release and contaminated grounds were removed. The area affected by release was re-stoned and a rip-rap swale was installed into this basin. Thorough investigation was conducted around the area of impact, on the neighboring (Knoll) property, where wastewater enters the Perkiomen creek from Outfall 004 and downstream of the discharge point into the Perkiomen creek. No evidence of impact or release was observed further than the Outfall 004 swale.

On July 6, 2020 at approximately 9:00 AM, low pH readings were discovered for the boilers. The readings were 3.22-3.32. The neutralizer pump was then replaced. The facility uses Dica 66 for pH neutralization of boiler blowdown prior to discharge through outfall 003. Outfall 003 was monitored by DEP at 1300. Discharge was clear and visually in compliance. pH was 8.90.

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 L	imitations			Monitoring Red	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentra		Minimum ⁽²⁾	Required	
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
pH (S.U.)	XXX	XXX	xxx	ХХХ	Report	XXX	1/6 month	Grab
Chemical Oxygen Demand (COD)	XXX	xxx	xxx	xxx	Report	xxx	1/6 month	Grab
Oil and Grease	XXX	xxx	xxx	xxx	Report	xxx	1/6 month	Grab
Biochemical Oxygen Demand (BOD5)	XXX	xxx	xxx	xxx	Report	xxx	1/6 month	Grab
Total Suspended Solids	xxx	xxx	xxx	xxx	Report	xxx	1/6 month	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	XXX	1/6 month	Grab

Compliance Sampling Location: Outfall 001

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		Monitoring Requirements						
	Mass Units (Ibs/day) ⁽¹⁾			Concentrat	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 month	Grab
Chemical Oxygen Demand (COD)	XXX	xxx	xxx	XXX	Report	xxx	1/6 month	Grab
Oil and Grease	XXX	xxx	XXX	XXX	Report	xxx	1/6 month	Grab
Biochemical Oxygen Demand (BOD5)	XXX	xxx	xxx	XXX	Report	xxx	1/6 month	Grab
Total Suspended Solids	XXX	xxx	xxx	XXX	Report	xxx	1/6 month	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	XXX	1/6 month	Grab

Compliance Sampling Location: Outfall 002

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

Parameter		Monitoring Requirements						
	Mass Units (Ibs/day) ⁽¹⁾			Concentrat	Minimum ⁽²⁾	Required		
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	xxx	XXX	XXX	XXX	1/week	Metered
pH (S.U.) *	XXX	XXX	6.0 Inst Min	XXX	xxx	9.0	1/week	Grab
Temperature (deg F) *	XXX	ххх	XXX	XXX	XXX	110	1/week	I-S
Total Suspended Solids *	XXX	XXX	xxx	30	60	75	1/month	24-Hr Composite
Total Dissolved Solids *	Report	Report Daily Max	xxx	Report	Report	XXX	1/month	24-Hr Composite
pH (S.U.)**	XXX	XXX	xxx	XXX	Report	xxx	1/6 month	Grab
Total Suspended Solids **	XXX	XXX	xxx	XXX	Report	ххх	1/6 month	Grab
5-Day Biochemical Oxygen ** Demand (BOD5)	XXX	xxx	xxx	XXX	Report	ххх	1/6 month	Grab
Oil and Grease **	XXX	xxx	xxx	XXX	Report	ххх	1/6 month	Grab
Nitrate + Nitrite-Nitrogen **	XXX	XXX	xxx	XXX	Report	XXX	1/6 month	Grab
Chemical Oxygen Demand ** (COD)	XXX	xxx	xxx	XXX	Report	xxx	1/6 month	Grab

* Samples shall be taken during non-storm event.

** Samples shall be taken during wet-weather event

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

Parameter		Monitoring Requirements						
	Mass Units (Ibs/day) ⁽¹⁾			Concentrat	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	XXX	1/6 month	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 month	Grab
Oil and Grease	XXX	XXX	xxx	XXX	Report	xxx	1/6 month	Grab
Biochemical Oxygen Demand (BOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/6 month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	xxx	1/6 month	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	xxx	1/6 month	Grab

Compliance Sampling Location: Outfall 004