pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0238651**
Facility Type	**Industrial**	APS ID	**1045190**
Major / Minor	**Minor**	Authorization ID	**1364772**

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

Applicant and Facility Information

Applicant Name	**SMS Millcraft LLC**	Facility Name	**SMS Group Oil City**
Applicant Address	671 Colbert Avenue, P.O. Box 1107	Facility Address	671 Colbert Avenue
	Oil City, PA 16301		Oil City, PA 16301-2288
Applicant Contact	Zach Hollis	Facility Contact	Zach Hollis
Applicant Phone	(814) 677-9416 (zach.hollis@sms-group.com)	Facility Phone	(814) 677-9416
Client ID	162572	Site ID	253478
SIC Code	3544, 3471	Municipality	City of Oil City
SIC Description	Manufacturing - Special Dies, Tools, Jigs, And Fixture	County	Venango
Date Application Received	July 30, 2021	EPA Waived?	Yes
Date Application Accepted	August 24, 2021	If No, Reason	
Purpose of Application	Renewal of a NPDES Permit for an existing discharge of Industrial Stormwater and miscellaneous IW wastewater.		

Summary of Review

This facility operations involves the manufacturing and refurbishing of steel casting molds. The process includes electroplating and thermal spray operations. Wastewater from electroplating is sent offsite via Enviro-rite & Vickery Environmental and sanitary waste is conveyed to the Oil City STP for treatment.

Internal Outfalls 103 and 203 were created for this permit renewal which receive reverse osmosis reject water and non-contact cooling water respectively. Stormwater associated with industrial activities is discharged at Outfalls 002-004 with the addition of the reverse osmosis reject water and NCCW at Outfall 003.

The PPC plan was last updated in October 2024.

The application did not indicate that any chemical additives were used for this facility.

The facility discharges to the Allegheny River, which is known to contain threatened and endangered mussel species. A summary of threatened and endangered mussel species concerns and considerations is included on Page 13 of this Fact Sheet.

There are currently no open violations listed in EFACTS for this permittee (7/23/2025).

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-

Approve	Deny	Signatures	Date
X		Adam J. Pesek Adam J. Pesek, E.I.T. / Project Manager	July 28, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	July 29, 2025

Summary of Review
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 Waters and Water Supply Information

Outfall No.	004	Design Flow (MGD)	0
Latitude	41º 25' 02"	Longitude	-79º 41' 40"
Quad Name	Oil City	Quad Code	0708
Wastewater Description:	Stormwater Associated with Industrial Activities		

Receiving Waters	Allegheny River	Stream Code	42122
NHD Com ID	100476369	RMI	133.9
Drainage Area	4360	Yield (cfs/mi^2)	0.242
Q_{7-10} Flow (cfs)	1055	Q_{7-10} Basis	Allegheny River @ Franklin
Elevation (ft)	998	Slope (ft/ft)	
Watershed No.	16-E	Chapter 93 Class.	
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	MERCURY		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°C)	25	Default (CWF)
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake		Aqua Pennsylvania, Inc. – Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	1450
PWS RMI	90.0	Distance from Outfall (mi)	44

Changes Since Last Permit Issuance:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003	Design Flow (MGD)	0.013
Latitude	41º 24' 58"	Longitude	-79º 41' 37"
Quad Name	Oil City	Quad Code	0708
Wastewater Description:	Noncontact Cooling Water (NCCW), Stormwater Associated with Industrial Activities and Reverse Osmosis Reject Water		
Receiving Waters	Allegheny River	Stream Code	42122
NHD Com ID	100476369	RMI	133.98
Drainage Area	4360	Yield (cfs/mi^2)	0.242
Q_{7-10} Flow (cfs)	1055	Q_{7-10} Basis	Allegheny River @ Franklin
Elevation (ft)	998	Slope (ft/ft)	
Watershed No.	16-E	Chapter 93 Class.	
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	MERCURY		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°C)	25	Default (CWF)
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake		Aqua Pennsylvania, Inc. – Emlenton	
PWS Waters	Allegheny River	Flow at Intake (cfs)	1450
PWS RMI	90.0	Distance from Outfall (mi)	44

Changes Since Last Permit Issuance:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	41º 24' 53"	Longitude	-79º 41' 28"
Quad Name	Oil City	Quad Code	0708
Wastewater Description:	Stormwater Associated with Industrial Activities		

Receiving Waters	Allegheny River (WWF)	Stream Code	42122
NHD Com ID	100476369	RMI	134.04
Drainage Area	4360	Yield (cfs/mi^2)	0.242
Q_{7-10} Flow (cfs)	1055	Q_{7-10} Basis	Allegheny River @ Franklin
Elevation (ft)	998	Slope (ft/ft)	
Watershed No.	16-E	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	MERCURY		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	25	Default (CWF)
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	Aqua Pennsylvania, Inc. – Emlenton		
PWS Waters	Allegheny River	Flow at Intake (cfs)	1450
PWS RMI	90.0	Distance from Outfall (mi)	44

Changes Since Last Permit Issuance:

Other Comments:

Compliance History	
Summary of DMRs:	There have been 6 late eDMR submissions dating back to 11/1/2021. No effluent violations have been reported.
Summary of Inspections:	The last compliance evaluation inspection was conducted on 4/2/2025. The inspection reported did not note any violations or significant non-compliance. Before that, an inspection was conducted on 2/19/2020. The inspection report did not indicate any violations but said the Additional Information for the Reporting of Stormwater Discharge Monitoring Form had not been filled out and that some of the storm drains that lead to Outfall 003 were plugged to varying degrees. The report also indicated a chiller unit was installed for the NCCW recirculation system.

Other Comments: A Notice of Violation (NOV) was issued on July 10, 2024, for failure to submit the eDMRs in a timely manner.

Compliance History

DMR Data for Outfall 002 (from June 1, 2024 to May 31, 2025)

Parameter	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24
pH (S.U.) Other Stormwater Daily Maximum						6.43						6.92
TSS (mg/L) Other Stormwater Daily Maximum						10						32
Nitrate-Nitrite (mg/L) Other Stormwater Daily Maximum						< 0.20						0.38
Total Aluminum (mg/L) Other Stormwater Daily Maximum						0.14						0.29
Total Iron (mg/L) Other Stormwater Daily Maximum						0.50						0.69
Total Zinc (mg/L) Other Stormwater Daily Maximum						0.40						0.20

DMR Data for Outfall 003 (from June 1, 2024 to May 31, 2025)

Parameter	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24
Flow (MGD) Average Monthly	0.00169	0.00235	0.00271	0.00472	0.00258	0.00308	0.00239	0.00262	0.00246	9381	0.005	0.0048
pH (S.U.) Instantaneous Minimum	7.28	6.47	7.02	7.03	6.5	6.45	6.04	6.0	6.7	6.1	6.4	6.4
pH (S.U.) Instantaneous Maximum	7.57	6.85	7.36	7.28	6.75	7.26	6.47	6.6	7.45	6.4	5.5	5.0
pH (S.U.) Other Stormwater Daily Maximum						5.80						6.42

TSS (mg/L) Other Stormwater Daily Maximum						8						< 3
Nitrate-Nitrite (mg/L) Other Stormwater Daily Maximum						< 0.20						0.32
Total Aluminum (mg/L) Other Stormwater Daily Maximum						< 0.10						< 0.1
Total Iron (mg/L) Other Stormwater Daily Maximum						0.17						0.05
Total Zinc (mg/L) Other Stormwater Daily Maximum						0.11						0.12

DMR Data for Outfall 004 (from June 1, 2024 to May 31, 2025)

Parameter	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24
pH (S.U.) Other Stormwater Daily Maximum						5.77						6.72
TSS (mg/L) Other Stormwater Daily Maximum						11						20
Nitrate-Nitrite (mg/L) Other Stormwater Daily Maximum						< 0.20						0.49
Total Aluminum (mg/L) Other Stormwater Daily Maximum						0.14						0.49
Total Iron (mg/L) Other Stormwater Daily Maximum						0.32						1.13
Total Zinc (mg/L) Other Stormwater Daily Maximum						0.27						0.19

Development of Effluent Limitations

Outfall No.	002	**Design Flow (MGD)**	0
Latitude	41º 24' 53.00"	**Longitude**	-79º 41' 28.00"
Outfall No.	004	**Design Flow (MGD)**	0
Latitude	41º 25' 2.00"	**Longitude**	-79º 41' 40.00"

Wastewater Description: Stormwater Associated with Industrial Activities

Technology-Based Limitations

Comments: None determined.

Water Quality-Based Limitations

Comments: None.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring requirements and benchmark values found in the NPDES PAG-03 General Permit, Appendix U were applied to both outfalls in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Industrial Permits." This includes monitoring for pH, TSS, oil & grease, nitrate-nitrite, total nitrogen, total phosphorus, total aluminum, total iron, and total zinc during qualifying storm events.

Anti-Backsliding

N/A

Development of Effluent Limitations

Outfall No.	003	**Design Flow (MGD)**	0.013
Latitude	41º 24' 54.00"	**Longitude**	-79º 41' 36.00"

Wastewater Description: Reverse Osmosis Reject Water (Suboutfall 103) Noncontact Cooling Water (Suboutfall 203), and Stormwater associated with industrial activities

Technology-Based Limitations

Comments: None determined. Technology-based limits were evaluated and assigned at internal outfalls for non-stormwater contributions.

Water Quality-Based Limitations

Comments: Water quality-based limits were considered at internal outfalls for non-stormwater contributions.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring requirements and benchmark values found in the NPDES PAG-03 General Permit, Appendix U were applied in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Industrial Permits." This includes monitoring for pH, TSS, oil & grease, nitrate-nitrite, total nitrogen, total phosphorus, total aluminum, total iron, and total zinc taken during qualifying storm events.

Anti-Backsliding

N/A

Development of Effluent Limitations

Outfall No. 103 **Design Flow (MGD)** 0.0029
Latitude 41º 25' 1.00" **Longitude** -79º 41' 33.00"
Wastewater Description: Reverse Osmosis Reject Water

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
Total Suspended Solids	30	Average Monthly		362-2183-003
Total Suspended Solids	60	Daily Maximum		362-2183-003
Aluminum	4.0	Average Monthly		362-2183-003
Aluminum	8.0	Daily Maximum		362-2183-003
Manganese	1.0	Average Monthly		362-2183-003
Manganese	2.0	Daily Maximum		362-2183-003
Total Iron	2.0	Average Monthly		362-2183-003
Total Iron	4.0	Daily Maximum		362-2183-003
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

Comments: 362-2183-003 References the Department's technical guidance document entitled "Technology-based Control Requirements for Water Treatment Plant Wastes." The limits are BPT (Best Practical Control Technology) and are not based on actual regulation. The Department has identified the TSD requirements as the Best Available Treatment (BAT) that, as a minimum, the permittee will be required to meet. Since no federal effluent limitation guidelines (ELGs) have been promulgated, the Department's Best Professional Judgment of BAT, as outlined in the TSD, satisfies the Federal requirements of the 40 CFR 125.3(d) regulations. Limits for total residual chlorine were excluded for this waste stream due to the treatment not incorporating chlorination.

Water Quality-Based Limitations

Comments: Due to the significant amount of dilution available in the receiving stream, and the minimal discharge rate, no water quality modeling was done.

Best Professional Judgment (BPJ) Limitations

Comments: See Technology-Based Limits section above.

Additional Considerations

As discussed further on Page 13 and 14 of this Fact Sheet, semi-annual monitoring for total nickel and total zinc were placed in the permit for this internal outfall under the authority of 25 Pa. Code Chapter 92a.61.

Anti-Backsliding

N/A

Development of Effluent Limitations

Outfall No. 203 **Design Flow (MGD)** 0.0101
Latitude 41º 25' 2.00" **Longitude** -79º 41' 31.00"
Wastewater Description: Non-Contact Cooling Water

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
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

Comments: There are no Federal ELGs that apply to this wastestream.

Water Quality-Based Limitations

Comments: Due to the type of wastestream (non-process non-contact cooling water), no water quality modeling was conducted.

The application listed a maximum discharge temperature of 107. 2°F. This is also a batch discharge occurring approximately 2.1 hours a day. Temperature modeling was not conducted due to the significant dilution available in the receiving stream. Due to concerns of shock temperature loadings to the river that contains threatened and endangered mussels and that the discharge temperature is close to the maximum discharge threshold of 110°F for thermal discharges found in the Department's Thermal Discharge guidance, monitoring for temperature will be placed in the permit at a frequency of twice a month under the authority of 24 Pa. Code Chapter 92a.61. A condition was placed in the permit stating "This discharge shall not cause a change in the stream temperature of more than 2°F during any one hour. Additionally, Thermal discharges may not exceed 110°F at any point accessible to the general public."

Best Professional Judgment (BPJ) Limitations

Comments: None

Additional Considerations

Monitoring for flow and TSS were placed in the permit at this internal outfall under the authority of 25 Pa. Code Chapter 92a.61.

Anti-Backsliding

N/A

Threatened and Endangered Mussel Species Concerns and Considerations

The Allegheny River is known to contain state and federally listed threatened and endangered mussel species. Due to this being a direct discharge to the Allegheny River, potential impacts were evaluated.

The USFWS has indicated in comment letters and email correspondence on other NPDES permits, that to protect threatened and endangered mussel species, wastewater discharges containing ammonia-nitrogen (NH3-N), chloride (Cl-) dissolved nickel, dissolved zinc, and copper where mussels or their habitat exist, can be no more than 1.9 mg/l, 78 mg/l, 7.3 µg/l, 13.18 µg/l, and 10 µg/l respectively.

The calculated site- specific criteria based on WQN Station 805 stream background pH data and default temperature for a WWF (pH of 7.43 and temperature of 25) results in NH3-N criteria of 1.07 mg/l.

A summary of the sampling data for ammonia-nitrogen (NH3-N) and temperature from three samples at internal outfalls 103 and 203 for the 2021 renewal application, is as follows:

PARAMETER	UNITS	Outfall 101			Comments
		Max	Avg. Value	No. Samples	
NH_3-N	mg/l	<0.3	<0.3	3	
Temperature	(°F)	70.2	68.1	3	

PARAMETER	UNITS	Outfall 201			Comments
		Max	Avg. Value	No. Samples	
NH_3-N	mg/l	<0.3	<0. 3	3	
Temperature	(°F)	107.2	105.7	3	

As can be seen from the sampling above, ammonia nitrogen is well below protective levels for threatened and endangered mussels. It is not expected that there will be impacts to threatened and endangered mussels due to temperature at internal outfall 203 as the wastewater typically sits for many days prior to being batch discharged and mixing with filter backwash wastewater prior to discharging.

Chlorides were reviewed during the last NPDES Permit renewal. The previous application listed chloride concentrations from its reverse osmosis reject water and NCCW discharges of 46.2 mg/l and 19.3 mg/l, respectively, which is much less than the USFWS developed instream criteria of 78 mg/l. Accordingly, no effluent limits for chlorides are recommended for Outfall 003.

The renewal application did not have any effluent data to evaluate for dissolved (or total) nickel and zinc, nor was there any data for total copper. There is a potential for elevated levels of these metals in the internal outfall 103 wastestream. Therefore, semi-annual sampling for total copper, total nickel, and total zinc will be placed in the permit at this internal outfall to collect data to further evaluate any potential impacts to mussels for the next NPDES Permit renewal. There is not expected to be any mussel impacts due to the internal outfall 203 wastestream (NCCW), so no monitoring of metals is being proposed at this internal outfall.

No impacts to threatened and endangered mussels are expected due to stormwater discharged from this facility

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" (386-0400-001), 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	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
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 002 (prior to mixing with any other waters)

Other Comments: Sampling shall be collected during a qualifying storm event.

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" (386-0400-001), SOPs and/or BPJ.

Outfall 003, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	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
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 003 (prior to mixing with any other waters)

Other Comments: Sampling shall be collected during a qualifying storm event.

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" (386-0400-001), SOPs and/or BPJ.

Outfall 004, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	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
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 004 (prior to mixing with any other waters)

Other Comments: Sampling shall be collected during a qualifying storm event.

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" (386-0400-001), SOPs and/or BPJ.

Outfall 103, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	2/month	Grab
TSS	XXX	XXX	XXX	30	60	75	1/month	Grab
Total Aluminum	XXX	XXX	XXX	4.0	8.0	10	1/month	Grab
Total Iron	XXX	XXX	XXX	2.0	4.0	5	1/month	Grab
Total Manganese	XXX	XXX	XXX	1.0	2.0	2.5	1/month	Grab
Total Copper (ug/L)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nickel (ug/L)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc (ug/L)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 103 (prior to mixing with any other waters)

Other Comments:

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" (386-0400-001), SOPs and/or BPJ.

Outfall 203, 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	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Calculation
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	2/month	Grab
Temperature (ºF)	XXX	XXX	XXX	XXX	Report	XXX	2/month	Measured
TSS	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Compliance Sampling Location: Outfall 203 (prior to mixing with any other waters).

Other Comments: