

Application Type Renewal
Facility Type Industrial
Major / Minor Major

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

Application No. PA0009920
APS ID 780559
Authorization ID 926487

Applicant and Facility Information

Applicant Name	<u>Exelon Generation Co. LLC</u>	Facility Name	<u>Exelon Three Mile Island Nuclear Station</u>
Applicant Address	<u>PO Box 480 Route 441 South Middletown, PA 17057-0480</u>	Facility Address	<u>PO Box 480 Route 441 South Middletown, PA 17057-0480</u>
Applicant Contact	<u>T Haaf</u>	Facility Contact	<u>Scott Cogley</u>
Applicant Phone	<u>(717) 948-8881</u>	Facility Phone	<u></u>
Client ID	<u>273620</u>	Site ID	<u>450833</u>
SIC Code	<u>4911</u>	Municipality	<u>Londonderry Township</u>
SIC Description	<u>Trans. & Utilities - Electric Services</u>	County	<u>Dauphin</u>
Date Application Received	<u>May 3, 2012</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>May 8, 2012</u>	If No, Reason	<u>Major Facility</u>
Purpose of Application	<u></u>		

Summary of Review

Public Participation

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

Approve	Deny	Signatures	Date
		Reza H. Chowdhury, E.I.T. / Environmental Engineering Specialist	September 28, 2018
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No. 004 Design Flow (MGD) 43
 Latitude 40° 9' 9.28" Longitude -76° 43' 9.50"
 Quad Name _____ Quad Code _____
 Wastewater Description: IW Process Effluent without ELG

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____
 NHD Com ID 56406043 RMI _____
 Drainage Area _____ Yield (cfs/mi²) _____
 Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____
 Elevation (ft) _____ Slope (ft/ft) _____
 Watershed No. 7-G Chapter 93 Class. WWF
 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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 001 Design Flow (MGD) 43

Latitude 40° 9' 5.44" Longitude -76° 43' 9.82"

Quad Name _____ Quad Code _____

Wastewater Description: IW Process Effluent without ELG

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 003 Design Flow (MGD) 43

Latitude 40° 9' 7.43" Longitude -76° 43' 9.65"

Quad Name _____ Quad Code _____

Wastewater Description: IW Process Effluent without ELG

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 005 Design Flow (MGD) .3

Latitude 40° 9' 5.31" Longitude -76° 43' 9.83"

Quad Name _____ Quad Code _____

Wastewater Description: IW Process Effluent without ELG

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 007 Design Flow (MGD) 0

Latitude 40° 9' 5.31" Longitude -76° 43' 9.83"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 006 Design Flow (MGD) 6
 Latitude 40° 9' 13.30" Longitude -76° 43' 9.16"
 Quad Name _____ Quad Code _____
 Wastewater Description: IW Process Effluent without ELG

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____
 NHD Com ID 56406043 RMI _____
 Drainage Area _____ Yield (cfs/mi²) _____
 Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____
 Elevation (ft) _____ Slope (ft/ft) _____
 Watershed No. 7-G Chapter 93 Class. WWF
 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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 009 Design Flow (MGD) 0

Latitude 40° 8' 50.51" Longitude -76° 43' 7.27"

Quad Name _____ Quad Code _____

Wastewater Description: IW Process Effluent without ELG

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406549 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

Existing Use _____ Existing Use Qualifier _____

Exceptions to Use _____ Exceptions to Criteria _____

Assessment Status Not Assessed

Cause(s) of Impairment _____

Source(s) of Impairment _____

TMDL Status _____ Name _____

Background/Ambient Data	Data Source
pH (SU) _____	_____

Temperature (°F) _____	_____
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Hardness (mg/L) _____	_____
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Other: _____	_____
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Nearest Downstream Public Water Supply Intake _____

PWS Waters _____ Flow at Intake (cfs) _____

PWS RMI _____ Distance from Outfall (mi) _____

Changes Since Last Permit Issuance:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 010 Design Flow (MGD) 0

Latitude 40° 8' 42.12" Longitude -76° 43' 17.34"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406549 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

Existing Use _____ Existing Use Qualifier _____

Exceptions to Use _____ Exceptions to Criteria _____

Assessment Status Not Assessed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 011 Design Flow (MGD) 0

Latitude 40° 9' 12.31" Longitude -76° 43' 9.24"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 101 Design Flow (MGD) _____
 Latitude 40° 9' 7.43" Longitude -76° 43' 9.65"
 Quad Name _____ Quad Code _____
 Wastewater Description: _____

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____
 NHD Com ID 56406043 RMI _____
 Drainage Area _____ Yield (cfs/mi²) _____
 Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____
 Elevation (ft) _____ Slope (ft/ft) _____
 Watershed No. 7-G Chapter 93 Class. WWF
 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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 401 Design Flow (MGD) _____

Latitude 40° 9' 2.46" Longitude -76° 43' 10.07"

Quad Name _____ Quad Code _____

Wastewater Description: _____

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 501 Design Flow (MGD) _____

Latitude 40° 9' 2.46" Longitude -76° 43' 10.07"

Quad Name _____ Quad Code _____

Wastewater Description: _____

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 701 Design Flow (MGD) _____

Latitude 40° 9' 2.46" Longitude -76° 43' 10.07"

Quad Name _____ Quad Code _____

Wastewater Description: _____

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No. 008 Design Flow (MGD) 0

Latitude 40° 8' 57.28" Longitude -76° 43' 10.51"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Unnamed Tributary of Susquehanna River Stream Code _____

NHD Com ID 56406043 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 7-G Chapter 93 Class. WWF

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 Final Name Conewago Creek Watershed

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:

Other Comments:

Treatment Facility Summary				
Treatment Facility Name: Tmi lw				
WQM Permit No.		Issuance Date		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Industrial			No Disinfection	
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal

Changes Since Last Permit Issuance:

Other Comments:

Compliance History

DMR Data for Outfall 001 (from August 1, 2017 to July 31, 2018)

Parameter	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17	NOV-17	OCT-17	SEP-17	AUG-17
Flow (MGD) Average Monthly	14.9	15.5	15.7	15.1	14.6	14.1	14.6	16.1	14.8	22.4	18.9	16.6
Flow (MGD) Daily Maximum	17.7	17.8	19.2	17.0	16.5	16.0	16.7	17.4	15.9	48.6	39.6	19.2
pH (S.U.) Minimum	7.8	7.7	8.0	7.7	7.7	7.8	8.1	8.2	7.9	7.8	8.1	7.8
pH (S.U.) Maximum	8.0	7.9	8.1	8.0	7.7	7.9	8.1	8.2	7.9	8.1	8.2	7.8
Free Available Chlorine (mg/L) Daily Maximum	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.5
TRO (mg/L) Daily Maximum	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.04
Temperature (°F) Daily Maximum	101.6	94.9	89.0	72.0	68.2	61.9	56.3	65.6	69.3	87.8	94.5	100.4
TSS (mg/L) Average Monthly	21	42	12	27	29	52	< 5	< 5	15	15	6	58
TSS (mg/L) Daily Maximum	21	61	12	43	36	74	< 5	< 5	35	18	8	87
Hydrazine (mg/L) Instantaneous Maximum	GG	GG	GG	0.106	GG	GG	GG	GG	GG	GG	GG	GG
Spectrus CT 1300 (mg/L) Daily Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG

DMR Data for Outfall 005 (from August 1, 2017 to July 31, 2018)

Parameter	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17	NOV-17	OCT-17	SEP-17	AUG-17
Flow (MGD) Average Monthly									0.177			
Flow (MGD) Daily Maximum									0.182			
pH (S.U.) Minimum									8.0			

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pH (S.U.) Maximum									8.2			
TSS (mg/L) Average Monthly									6			
TSS (mg/L) Daily Maximum									7			
Oil and Grease (mg/L) Average Monthly									< 2			
Oil and Grease (mg/L) Daily Maximum									< 2			

DMR Data for Outfall 101 (from August 1, 2017 to July 31, 2018)

Parameter	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17	NOV-17	OCT-17	SEP-17	AUG-17
Flow (MGD) Average Monthly	0.006	0.005	0.006	0.006	0.006	0.006	0.005	0.006	0.006	0.010	0.015	0.009
Flow (MGD) Daily Maximum	0.026	0.020	0.021	0.025	0.016	0.014	0.016	0.013	0.015	0.022	0.026	0.020

DMR Data for Outfall 701 (from August 1, 2017 to July 31, 2018)

Parameter	JUL-18	JUN-18	MAY-18	APR-18	MAR-18	FEB-18	JAN-18	DEC-17	NOV-17	OCT-17	SEP-17	AUG-17
Flow (MGD) Average Monthly	0.072	0.068	0.0066	0.066	0.053	0.055	0.050	0.054	0.068	0.105	0.086	0.066
Flow (MGD) Daily Maximum	0.118	0.113	0.121	0.141	0.104	0.094	0.088	0.102	0.088	0.224	0.241	0.112
pH (S.U.) Minimum	8.2	8.1	8.2	7.9	8.2	8.0	7.8	8.2	8.2	7.9	7.9	8.0
pH (S.U.) Maximum	8.3	8.3	8.2	8.3	8.2	8.1	8.2	8.2	8.2	8.2	8.3	8.1
TSS (mg/L) Average Monthly	< 5	5	< 5	5	< 5	< 5	< 5	7	< 5	< 5	< 5	< 5
TSS (mg/L) Daily Maximum	< 5	5	< 5	5	< 5	< 5	< 5	10	< 5	< 5	< 5	< 5

Compliance History

Effluent Violations for Outfall 001, from: September 1, 2017 To: July 31, 2018

Parameter	Date	SBC	DMR Value	Units	Limit Value
Hydrazine	04/30/18	IMAX	0.106	mg/L	0.010

Summary of Inspections: [REDACTED]

Other Comments: [REDACTED]

Proposed Effluent Limitations and Monitoring Requirements

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

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	2/month	Grab
Free Available Chlorine	XXX	XXX	XXX	XXX	0.2	0.5	1/week	Grab
TRO	XXX	XXX	XXX	XXX	0.14	0.17	1/week	Grab
Temperature (°F) Oct 1 - Mar 31	XXX	XXX	XXX	XXX	110	XXX	Continuous	Recorded
Temperature (°F) Apr 1 - Sep 30	XXX	XXX	XXX	XXX	115	XXX	Continuous	Recorded
TSS	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Hydrazine	XXX	XXX	XXX	XXX	XXX	0.010	1/week	Grab
Spectrus CT 1300	XXX	XXX	XXX	XXX	0.1	0.3	1/week	Grab

Compliance Sampling Location:

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" (362-0400-001), 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		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	2/month	Grab
Free Available Chlorine	XXX	XXX	XXX	XXX	0.2	0.5	1/week	Grab
TRO	XXX	XXX	XXX	XXX	0.14	0.17	1/week	Grab
Temperature (°F) Oct 1 - Mar 31	XXX	XXX	XXX	XXX	110	XXX	1/shift	I-S
Temperature (°F) Apr 1 - Sep 30	XXX	XXX	XXX	XXX	115	XXX	1/shift	I-S
TSS	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Hydrazine	XXX	XXX	XXX	XXX	XXX	0.010	1/week	Grab
Spectrus CT 1300	XXX	XXX	XXX	XXX	0.1	0.3	1/week	Grab

Compliance Sampling Location:

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" (362-0400-001), 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		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	2/month	Grab
Free Available Chlorine	XXX	XXX	XXX	XXX	0.2	0.5	1/week	Grab
TRO	XXX	XXX	XXX	XXX	0.14	0.17	1/week	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	Report	XXX	1/shift	I-S
TSS	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Hydrazine	XXX	XXX	XXX	XXX	XXX	0.010	1/week	Grab
Spectrus CT 1300	XXX	XXX	XXX	XXX	0.1	0.3	1/week	Grab

Compliance Sampling Location:

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” (362-0400-001), SOPs and/or BPJ.

Outfall 005, 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/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	2/month	Grab
TSS	XXX	XXX	XXX	30	100	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	15	20	30	2/month	Grab

Compliance Sampling Location:

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” (362-0400-001), SOPs and/or BPJ.

Outfall 101, 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	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
CBOD5	XXX	XXX	XXX	25	XXX	50	1/quarter	8-Hr Composite
TSS	XXX	XXX	XXX	30	XXX	60	1/quarter	8-Hr Composite
Fecal Coliform (CFU/100 ml) Oct 1 - Mar 31	XXX	XXX	XXX	2000 Geo Mean	XXX	XXX	1/quarter	Grab
Fecal Coliform (CFU/100 ml) Apr 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/quarter	Grab
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4	1/quarter	8-Hr Composite

Compliance Sampling Location:

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" (362-0400-001), SOPs and/or BPJ.

Outfall 401, 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	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	1/quarter	Grab
TSS	XXX	XXX	XXX	30	100	XXX	1/quarter	Grab
Oil and Grease	XXX	XXX	XXX	15	20	30	1/quarter	Grab

Compliance Sampling Location:

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” (362-0400-001), SOPs and/or BPJ.

Outfall 501, 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	2/month	Calculation
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	2/month	Grab
TSS	XXX	XXX	XXX	30	100	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	15	20	30	1/quarter	Grab

Compliance Sampling Location:

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” (362-0400-001), SOPs and/or BPJ.

Outfall 701, 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	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	2/month	Grab
TSS	XXX	XXX	XXX	30	100	XXX	2/month	Grab
Oil and Grease	XXX	XXX	XXX	15	20	30	1/quarter	Grab

Compliance Sampling Location:

Other Comments:

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	PENTOXSD for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Toxics Screening Analysis Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 385-2000-011, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Design Stream Flows, 391-2000-023, 9/98.
<input type="checkbox"/>	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.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input type="checkbox"/>	SOP: [redacted]
<input type="checkbox"/>	Other: [redacted]