pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0232599**
Facility Type	**Industrial**	APS ID	**997254**
Major / Minor	**Minor**	Authorization ID	**1280072**

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

Applicant and Facility Information

Applicant Name	**Suez Water Pennsylvania Inc.**	Facility Name	**Bloomsburg Water Treatment Plant**
Applicant Address	4211 E Park Circle	Facility Address	100 Irondale Road
	Harrisburg, PA 17111-2806		Bloomsburg, PA 17815-8507
Applicant Contact	John Hollenbach	Facility Contact	Tate Hunsinger
Applicant Phone	(717) 901-6321	Facility Phone	(570) 316-7641
Client ID	64718	Site ID	786889
SIC Code	4941	Municipality	Town of Bloomsburg
SIC Description	Trans. & Utilities - Water Supply	County	Columbia
Date Application Received	July 2, 2019	EPA Waived?	Yes
Date Application Accepted	August 21, 2019	If No, Reason	

Purpose of Application: Renewal of an existing NPDES permit for the discharge of treated industrial waste.

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
x		/s/ Derek S. Garner / Project Manager	3/20/2020
x		/s/ Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.38
Latitude	41º 0' 22.73"	Longitude	-76º 27' 44.16"
Quad Name	Bloomsburg	Quad Code	1034
Wastewater Description:	Water Treatment Effluent		

Receiving Waters	Fishing Creek	Stream Code	27623
NHD Com ID	65640559	RMI	2.63
Drainage Area	362	Yield (cfs/mi^2)	0.072
Q_{7-10} Flow (cfs)	26.2	Q_{7-10} Basis	Streamgage No. 01539000
Elevation (ft)	480	Slope (ft/ft)	n/a
Watershed No.	5-C	Chapter 93 Class.	WWF, MF
Existing Use	n/a	Existing Use Qualifier	n/a
Exceptions to Use	n/a	Exceptions to Criteria	n/a
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	n/a	Name	n/a

Nearest Downstream Public Water Supply Intake	Danville Municipal Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	1,120
PWS RMI	138.06	Distance from Outfall (mi)	12.19

Treatment Facility Summary

Construction and operation of 0.38 MGD wastewater treatment at the Bloomsburg Water Treatment Plant is covered under WQM Permit No. 1914201, originally issued on December 9, 2014 and amended on August 17, 2016. Wastewater streams at the facility include; solids blowdown, filter backwash, and analyzer wastewater. Treatment consists of; a 41,212-gallon sludge equalization basin, a 385,000-gallon clarifier, and a 323,136-gallon concrete sedimentation basin repurposed as an additional clarifier.

Compliance History

There are no open violations associated with the permittee.

There have not been any effluent violations documented during the current permit term.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.38
Latitude 41º 0' 23.00" **Longitude** -76º 27' 44.00"
Wastewater Description: Water Treatment Effluent

Technology-Based Limitations

DEP's *Technology-Based Control Requirements for Water Treatment Plant Wastes (362-2183-003, 10/1/97)*, recommends a set of parameters and effluent limits based upon best practicable control technology available (BPT). The recommended parameters and limits are as follows:

Parameter	Monthly Avg (mg/L)	Daily Max (mg/L)
Total Suspended Solids	30	60
Total Iron	2	4
Total Aluminum	4	8
Total Manganese	1	2
Flow (MGD)	Report	Report
pH (S.U.)	Between 6.0 and 9.0 at all times*	

*Also required by 25 Pa. Code 95.2(1)

Total Residual Chlorine (TRC) limitations were evaluated using the TRC_CALC spreadsheet. The spreadsheet indicates that the TRC TBEL of 0.5 mg/L required by 25 Pa. Code § 92a.48(b)(2) is protective.

Water Quality-Based Limitations

The Toxics Screen Analysis (attached) indicates that a possible limit for Total Aluminum may be appropriate. However, the recommended effluent limit is higher than the existing technology-based monthly average effluent limitation (4 mg/l vs. 5.57 mg/l). Accordingly, DEP does not recommend establishing any water quality-based effluent limits.

Best Professional Judgment (BPJ) Limitations

The previous permit established monitoring requirements for trihalomethanes (THMs) based on chlorination of the raw intake water upstream of the clarifier basins. A review of THM data over the past five years indicates an average effluent concentration of 7 µg/l. Based on the low effluent concentrations, DEP recommends removing the THM monitoring requirement.

Chesapeake Bay

The discharge does not produce a net increase in total nitrogen or total phosphorus loadings. Consequently, no nutrient monitoring requirements are proposed.

Anti-Backsliding

DEP has proposed to remove THM monitoring requirements in accordance with 40 CFR § 122.44(l)(2)(i)(B)(1) which allows for less stringent requirements when based on new information that was not available at the time of the previous permit issuance.

Existing Effluent Limitations and Monitoring Requirements

This existing effluent limitations and monitoring requirements are as follows:

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/month	Grab
Total Residual Chlorine	XXX	XXX	XXX	0.5	XXX	0.75	1/month	Grab
Total Suspended Solids	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	5.0	1/month	Grab
Total Manganese	XXX	XXX	XXX	1.0	2.0	2.5	1/month	Grab
Total Trihalomethanes	Report Avg Qrtrly	XXX	XXX	Report Avg Qrtrly	XXX	XXX	1/quarter	Grab

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)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Quarterly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report Avg Mo	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	0.75	1/month	Grab
TSS	XXX	XXX	XXX	30.0	60.0	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

Compliance Sampling Location: Outfall 001