

Northeast Regional Office CLEAN WATER PROGRAM

Application Type	Renewal	NPDES PERMIT FACT SHEET
Facility Type	Industrial	INDIVIDUAL INDUSTRIAL WASTE (IW)
Major / Minor	Minor	AND IW STORMWATER

 Application No.
 PA0062898

 APS ID
 616146

 Authorization ID
 1322746

Applicant and Facility Information							
Applicant Name	PA A	merican Water Co.	Facility Name	PA American Water Watres WTP			
Applicant Address	2699	Stafford Avenue	Facility Address	1799 Jumper Road			
	Scran	ton, PA 18505-3608		Wilkes Barre, PA 18702-8032			
Applicant Contact	Nanc	y Donahue	Facility Contact	Ron Temple			
Applicant Phone	(570)	696-2878	Facility Phone	(570) 457-1550			
Client ID	87712	2	Site ID	449229			
SIC Code	4941		Municipality	Plains Township			
SIC Description	Trans	. & Utilities - Water Supply	County	Luzerne			
Date Application Rec	eived	August 3, 2020	EPA Waived?	Yes			
		August 7, 2020	If No, Reason				

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge 0.034 MGD of treated filter backwash water and other low volume wastewaters from the Watres WTP to Deep Creek, a CWF/MF designated receiving stream in state water plan basin 5-B (Toby – Wapwallopen Creeks). Per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. Outfall 001 discharges only under emergency or unusual conditions. The facility generally recycles 100% of its process water. DMR data shows that the most recent discharge was in November 2019. The discharge is not expected to affect public water supplies as this is the regional water company.

This is a public water supply Water Treatment Plant (SIC# 4941; NAICS# 22131). The technology-based limits for TSS, Iron, Manganese, pH, and TRC are consistent with Department guidance (Technology-Based Control Requirements for Water Treatment Plant Wastes, Doc. No. 362-2183-003). The Aluminum & TRC effluent limitations are water quality-based. All limits will be retained unchanged from the previous Permit.

These BPT technology-based effluent control requirements subject to water quality modelling are:

1) Filter backwash wastewater, or waste sludges generated from pre-sedimentation, coagulation/settling, water softening, or iron/manganese removal processes cannot be discharged to surface waters of the Commonwealth unless the following effluent quality can be achieved:

<u>PARAMETER</u>	MONTHLY AVERAGE (mg	g/l) DAILY MAX (mg
Suspended Solids	30	60
Iron (total)	2	4
Aluminum (total)	4	8
Manganese (total)	1	2
pH	6-9 (at	all times)

Approve	Deny	Signatures	Date
Х		Berna / Find	
		Bernard Feist, P.E. / Environmental Engineer	August 21, 2020
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	9-25-20

Summary of Review

2) Wastewater from regeneration of ion-exchange softening units cannot be directly discharged to surface waters unless no other acceptable disposal options exist within the financial capability of the discharger.

The WMS Report query "Water Management System Inspections" was run. On 07/09/2014 a Routine/Partial Inspection was done with No Violations noted.

The WMS "Open Violations by Client Report" was run and there four Open Violations.

lient: All										
CLIENT ID	PF ID	FACILITY	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION
87712	269909	PA AMERICAN WATER COMPANY SCRANTON WWTP	PA0026492	3005028	878762	12/20/2019	92A.46	NPDES - Violation of Part C permit condition(s)	GOLOBEK, DAVID	NERO
87712	277361	MCKEESPORT STP	PA0026913	3047676	887295	06/18/2020	92A.44	NPDES - Violation of effluent limits in Part A of permit	SPECHT, DUSTIE	SWRO
87712	277361	MCKEESPORT STP	PA0026913	3047676	887296	06/18/2020	92A.61(C)	NPDES - Failure to monitor pollutants as required by the NPDES permit	SPECHT, DUSTIE	SWRO
87712	280992	PA AMER WATER POCONO COUNTRY PLACE WWTP	PA0060097	2974784	871745	12/23/2019	92A.46	NPDES - Violation of Part C permit condition(s)	ACKERS, DANIEL	NERO

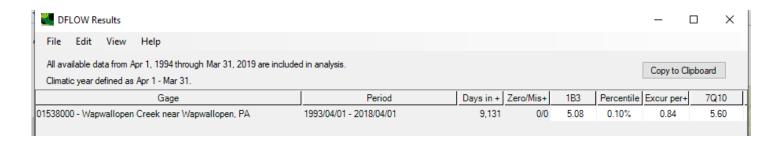
The application was received 8/3/20 and expires 1/31/20.

Public Participation

Client ID: 87712

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 Waters	and Water Supply Inform	nation	
		Design Flow (MGD) Longitude Quad Code f Filter backwash, flocculator drains, drying beds, par	
· -	Creek (CWF, MF) 241	Stream Code RMI Yield (cfs/mi²) Q ₇₋₁₀ Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria	63012 0.8 0.13 USGS-01538000 Dflow
Cause(s) of Impairment Source(s) of Impairment TMDL Status	Final	Name Susquehann	na River Metals
Nearest Downstream Public PWS Waters Susqueho PWS RMI 122.5	Water Supply Intake anna River	Danville Borough Municipal An Flow at Intake (cfs) Distance from Outfall (mi)	uthority ~58



STATION.--01538000 WAPWALLOPEN CREEK NEAR WAPWALLOPEN, PA

LOCATION.--Lat 41`03' 34", long 76`05' 39", Luzerne County, Hydrologic Unit 02050107, on left bank 12 ft downstream from Harts Bridge on SR 3012, 2.2 mi southeast of Wapwallopen, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--43.8 square miles.

PERIOD OF RECORD.--October 1919 to current year.

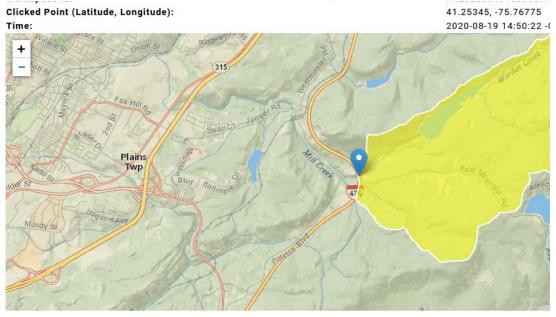
Q7-10 LowFlowYield (cfs/mi2)= 5.60 / 43.8 = 0.13

Outfall 001 at RMI 0.8 Elevation 1474 ft



ow-Flow Statistics Parame	eters(Low Flow Region 2)		
Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	1	square miles

RMI 0.0 Elevation 1,174



Low-Flow Statistics Parameters [Low Flow Region 2]									
Parameter Code	Parameter Name	Value	Units						
DRNAREA	Drainage Area	5.48	square miles						

Water Quality Modeling

TOXICS SCREENING ANALYSIS WATER QUALITY POLLUTANTS OF CONCERN **VERSION 2.7**

CLEAR FORM

Facility: Pa Watres Analysis Hardness (mg/L): 21 Stream Flow, Q₇₋₁₀ (cfs): 0.13 NPDES Permit No.: Discharge Flow (MGD):

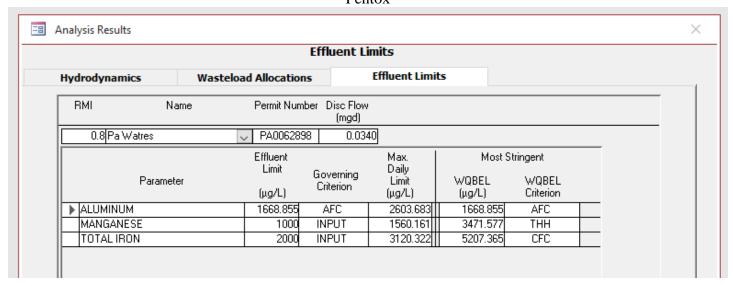
PA0062898 0.034

Analysis pH (SU):

Outfall: 001

	Parameter	 ximum Concentration in plication or DMRs (μg/L)	Most Stringent Criterion (µg/L)	Candidate for PENTOXSD Modeling?	Most Stringent WQBEL (μg/L)	Screening Recommendation
	Total Dissolved Solids	30000	500000	No		
p 1	Chloride	15000	250000	No		
Group	Bromide	1000	N/A	No		
ច	Sulfate	12500	250000	No		
	Fluoride	100	2000	No		
	Total Aluminum	4000	750	Yes	1668	Establish Limits
	Total Antimony		5.6			
	Total Arsenic		10			
	Total Barium	30	2400	No		
	Total Beryllium		N/A			
	Total Boron		1600			
	Total Cadmium		0.271			
	Total Chromium		N/A			
	Hexavalent Chromium		10.4			
	Total Cobalt		19			
~	Total Copper		9.3			
Group	Total Cyanide		N/A			
16	Total Iron	2000	1500	Yes	5207	Monitor
ľ	Dissolved Iron		300			
	Total Lead		3.2			
	Total Manganese	1000	1000	Yes	3471	Monitor
	Total Mercury		0.05			
	Total Molybdenum		N/A			
	Total Nickel		52.2			
	Total Phenols (Phenolics)		5			
	Total Selenium		5.0			
	Total Silver		3.8			
	Total Thallium		0.24			
	Total Zinc	20	119.8	No		

Pentox



TRC EVALUATION										
Input appropria	ite values ir	n A3:A9 and D3:D9	Pa Watres							
0.13	= Q stream	n (cfs)	0.5	= CV Daily						
0.034	= Q discha	rge (MGD)	0.5	= CV Hourly						
30	= no. samp	oles	1	= AFC_Partia	al Mix Factor					
0.3	= Chlorine	Demand of Stream	1	= CFC_Partia	al Mix Factor					
0	= Chlorine	Demand of Discharge	15	= AFC_Crite	ria Compliance Time (min)					
0.5	= BAT/BPJ	l Value	720	= CFC_Crite	ria Compliance Time (min)					
0	= % Facto	r of Safety (FOS)		=Decay Coef	fficient (K)					
Source	Reference	AFC Calculations		Reference	CFC Calculations					
TRC	1.3.2.iii	WLA afc =	0.807	1.3.2.iii	WLA cfc = 0.780					
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581					
PENTOXSD TRG	5.1b	LTA_afc=	0.301	5.1d	LTA_cfc = 0.453					
Source		Effluer	nt Limit Calcu	lations						
PENTOXSD TRG	5.1f		AML MULT =	1.231						
PENTOXSD TRG	5.1g	AVG MON L	.IMIT (mg/l) =	0.370	AFC					

Compliance History

DMR Data for Outfall 001 (from July 1, 2019 to June 30, 2020)

Parameter	JUN- 20	MAY- 20	APR- 20	MAR- 20	FEB- 20	JAN- 20	DEC- 19	NOV- 19	OCT- 19	SEP- 19	AUG- 19	JUL-19
Flow (MGD)												
Average Monthly								0.021				
Flow (MGD)												
Daily Maximum								0.252				
Duration of												
Discharge												
(minutes) Average Monthly								22				
Duration of								22				
Discharge												
(minutes)												
Daily Maximum								480				
pH (S.U.)												
Minimum								6.3				
pH (S.U.)												
Maximum								6.5				
TRC (mg/L)												
Average Monthly								0.03				
TRC (mg/L)												
Instantaneous												
Maximum								0.04				
TSS (mg/L)												
Average Monthly								14.9				
TSS (mg/L)								16.3				
Daily Maximum TSS (mg/L)								10.3				
Instantaneous												
Maximum								16.3				
Total Aluminum								10.0				
(lbs/day)												
Average Monthly								11.1				
Total Aluminum												
(lbs/day)												
Daily Maximum								26.5				
Total Aluminum												
(mg/L)												
Average Monthly								5.67				

Total Aluminum					
(mg/L)					
Daily Maximum			12.6		
Total Aluminum					
(mg/L)					
Instantaneous					
Maximum			12.6		
Total Barium					
(mg/L)					
Average Monthly			0.03		
Total Barium					
(mg/L)					
Daily Maximum		6	0.03		
Total Iron (mg/L)					
Average Monthly			< 0.32		
Total Iron (mg/L)					
Daily Maximum			0.56		
Total Iron (mg/L)					
Instantaneous					
Maximum			0.56		
Total Manganese					
(mg/L)					
Average Monthly			0.28		
Total Manganese					
(mg/L)					
Daily Maximum			0.59		
Total Manganese					
(mg/L)					
Instantaneous					
Maximum			0.59		
Total Zinc (mg/L)					
Average Monthly			< 0.02		
Total Zinc (mg/L)					
Daily Maximum			< 0.02		