

Northwest Regional Office CLEAN WATER PROGRAM

Application Type	Renewal
Facility Type	Municipal
Major / Minor	Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No.	PA0263893
APS ID	1071963
Authorization ID	1411362

Applicant and Facility Information

Applicant Name		orn Redbank Redbank pal Authority	Facility Name	Hawthorn Redbank Redbank Municipal Authority WWTP		
Applicant Address	PO Box	x 241	Facility Address	3110 Brookville Street		
	Hawtho	orn, PA 16230-0241	_	Fairmount City, PA 16224		
Applicant Contact		Miller, Township Secretary 2298@gmail.com)	Facility Contact	Spurgeon Shilling, Operator (spurgeonshilling@icloud.com)		
Applicant Phone	_		Facility Phone	(814) 229-3955 750265		
Client ID	43381		Site ID			
Ch 94 Load Status	Not Ov	erloaded	Municipality	Redbank Township		
Connection Status	No Lim	itations	County	Clarion		
Date Application Receiv	ved	September 23, 2022	EPA Waived?	Yes		
Date Application Accepted September 26, 2022		If No, Reason				
Purpose of Application		Renewal of an NPDES Permit fo municipal sewer system.	r an existing discharge of	treated sanitary wastewater from a		

Summary of Review

SPECIAL CONDITIONS:

II. Solids Management

Act 14 - Proof of Notification was submitted and received.

A Part II Water Quality Management permit is not required at this time.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

- A. Stormwater into sewers
- B. Right of way
- C. Solids handling
- D. Effluent Chlorine Optimization and Minimization

There are 25 open violations in efacts associated with the subject Client ID (43381) as of 7/12/2023 (see Attachment 2). 8/7/2023 CWY

Approve	Return	Deny	Signatures	Date
v			Stephen A. McCauley	7/12/2023
^		Stephen A. McCauley, E.I.T. / Environmental Engineering	Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	1/12/2023
v			Chad W. Yurisic	0/7/2022
^			Chad W. Yurisic, P.E. / Environmental Engineer Manager	8/7/2023

NPDES Permit Fact Sheet Hawthorn Redbank Redbank Municipal Authority WWTP

Outfall No. 001 Design Flow (MGD) 0.2 Latitude 41° 00' 42.70" Quad Code	Discharge, Receivi	ing Water	s and Water Supply Infor	mation	
Latitude 41° 00' 42.70° Longitude -79° 17' 58.90° Quad Name - Quad Code - Wastewater Description: Sewage Effluent Quad Code - Receiving Waters Redbank Creek (TSF) Stream Code 48064 NHD Com ID 123862912 RMI 26.0 Drainage Area 482.2 Yield (cfs/mi²) 0.12 Qr-to Flow (cfs) 57.9 Qr-to Basis calculated Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Exceptions to Use - Assessment Status Impaired* Exceptions to Criteria - Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - - Temperature (°F) - - - Hardness (mg/L) - - - Wearest Downst		1		Design Flow (MGD)	0.2
Quad Name - Quad Code - Wastewater Description: Sewage Effluent - - Receiving Waters Redbank Creek (TSF) Stream Code 48064 NHD Com ID 123862912 RMI 26.0 Drainage Area 482.2 Yield (cfs/mi²) 0.12 Qr-10 Flow (cfs) 57.9 Qr-10 Basis calculated Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Exceptions to Use - Assessment Status Impaired* Cause(s) of Impairment Metals, Nutrients, Siltation Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - - Temperature (°F) - - - Hardness (mg/L) - - - Other: - - - Nearest Downstream Public Water				U ()	
Wastewater Description: Sewage Effluent Receiving Waters Redbank Creek (TSF) Stream Code 48064 NHD Com ID 123862912 RMI 26.0 Drainage Area 482.2 Yield (cfs/mi²) 0.12 Qr.10 Flow (cfs) 57.9 Qr.10 Basis calculated Elevation (ft) 1027 Slope (fr/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* Cause(s) of Impairment Metals, Nutrients, Siltation Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other TMDL TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - - Temperature (°F) - - - Hardness (mg/L) - - - Other: - - - Nearest Downstream Public Water Suppl		00 42.70)	-	-79 17 38.90
Receiving Waters Redbank Creek (TSF) Stream Code 48064 NHD Com ID 123862912 RMI 26.0 Drainage Area 482.2 Yield (cfs/mi²) 0.12 Q7-10 Flow (cfs) 57.9 Q7-10 Basis calculated Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Exceptions to Use - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* - - Cause(s) of Impairment Metals, Nutrients, Siltation - - Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - - Temperature (°F) - - - Other: - - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters		cription:	Sewage Effluent		
NHD Com ID 123862912 RMI 26.0 Drainage Area 482.2 Yield (cfs/mi²) 0.12 Q7.10 Flow (cfs) 57.9 Q7-10 Basis calculated Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* Cause(s) of Impairment Metals, Nutrients, Siltation Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Wastewater Dest				
Drainage Area 482.2 Yield (cfs/mi²) 0.12 Qr.10 Flow (cfs) 57.9 Qr.10 Basis calculated Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* Cause(s) of Impairment Metals, Nutrients, Siltation Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - - Temperature (°F) - - - Hardness (mg/L) - - - Other: - - - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority 90.6	Receiving Waters	s <u>Redba</u>	ank Creek (TSF)	Stream Code	48064
Qr.10 Flow (cfs) 57.9 Qr.10 Basis calculated Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* Metals, Nutrients, Siltation - Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - Temperature (°F) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	NHD Com ID	12386	52912	RMI	26.0
Elevation (ft) 1027 Slope (ft/ft) 0.0006 Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* - - Cause(s) of Impairment Metals, Nutrients, Siltation - - Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Drainage Area	482.2		Yield (cfs/mi ²)	0.12
Watershed No. 17-C Chapter 93 Class. TSF Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* - - Cause(s) of Impairment Metals, Nutrients, Siltation - - Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Q ₇₋₁₀ Flow (cfs)	57.9		Q ₇₋₁₀ Basis	calculated
Existing Use - Existing Use Qualifier - Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired* - - Cause(s) of Impairment Metals, Nutrients, Siltation - - Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other - TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source - pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Elevation (ft)	1027		Slope (ft/ft)	0.0006
Exceptions to Use - Exceptions to Criteria - Assessment Status Impaired*	Watershed No.	17-C		Chapter 93 Class.	TSF
Assessment Status Impaired* Cause(s) of Impairment Metals, Nutrients, Siltation Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other TMDL Status Final NameRedbank Creek TMDL Background/Ambient Data Data Source pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Existing Use	-		Existing Use Qualifier	
Cause(s) of Impairment Metals, Nutrients, Siltation Source(s) of Impairment Abandoned Mine Drainage, Abandoned Mine Drainage, Other TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Exceptions to Us	e <u>-</u>		Exceptions to Criteria	
Source(s) of Impairment TMDL Status Abandoned Mine Drainage, Abandoned Mine Drainage, Other TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Assessment Stat	us	Impaired*		
TMDL Status Final Name Redbank Creek TMDL Background/Ambient Data Data Source pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Cause(s) of Impa	irment	Metals, Nutrients, Siltatio	n	
Background/Ambient Data Data Source pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Source(s) of Impa	airment	Abandoned Mine Drainag	ge, Abandoned Mine Drainage, C	Other
pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	TMDL Status		Final	Name Redbank Cr	eek TMDL
pH (SU) - - Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Dookground/Amb	iont Doto		Data Sauraa	
Temperature (°F) - - Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	0	neni Dala		Data Source	
Hardness (mg/L) - - Other: - - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs)	• • •		-		
Other: - Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	• • • •				
Nearest Downstream Public Water Supply Intake Redbank Valley Municipal Authority PWS Waters Redbank Creek Flow at Intake (cfs) 30.6			<u> </u>		
PWS Waters Redbank Creek Flow at Intake (cfs) 30.6	Other.				
	Nearest Downstre	eam Publi	c Water Supply Intake	Redbank Valley Municipal Aut	hority
PWS RMI 28.6 Distance from Outfall (mi) 2.0	PWS Waters	Redban	k Creek	Flow at Intake (cfs)	30.6
	PWS RMI	28.6		Distance from Outfall (mi)	2.0

* Due to the receiving stream being impaired by metals from abandoned mine drainage, monitoring for Aluminum, Iron, and Manganese was previously added to ensure this discharge is not contributing to the impairment, and will be retained.

Sludge use and disposal description and location(s):

Sludge is transported to the Punxsutawney Borough STP, where it is disposed of at an approved landfill.

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.

Narrative: This Fact Sheet details the determination of draft NPDES permit limits for an existing discharge of 0.2 MGD of treated sewage from an existing Publicly Owned Treatment Works (POTW) in Redbank Township, Clarion County.

Treatment permitted under Water Quality Management Permit No. 1612406 consists of: A mechanical bar screen with a backup manually-cleaned bar screen, a washer/compactor, a splitter box, two ABJ-ICEAS (Austin Bio Jet - Intermittent Cycle Extended Aeration System) SBR units, UV disinfection, post aeration, and an aerated 6,250 gallon sludge holding tank.

1. Streamflow:

The yieldrate for the receiving stream at the outfall was calculated using the nearest USGS gage station.

Redbank Creek @ St. Charles gage:

Drainage Area:	<u>528</u>	sq. mi.	(from StreamStats)
Q7-10:	<u>62.6</u>	cfs	(from StreamStats)
Yieldrate:	<u>0.12</u>	cfsm	(calculated)

Redbank Creek at Outfall 001:

Yieldrate:	<u>0.12</u>	cfsm	(calculated above)
Drainage Area:	<u>482.2</u>	sq. mi.	(from StreamStats)
% of stream allocated:	<u>100%</u>	Basis:	no nearby discharges
Q ₇₋₁₀ :	<u>57.9</u>	cfs	(calculated)

.....

~ ~

2. Wasteflow:

. . .

Maximum discharge:	<u>0.2</u>	MGD =	<u>0.3</u>	cts
Runoff flow period:	<u>24</u>	hours	Basis:	Runoff flow for a Municipal STP

~ ~

There is more than 3 parts stream flow (Q7-10) to 1 part effluent (design flow). Per the SOP, the standards in DEP guidance (391-2000-014) will not be applied.

Flow will be required to be monitored as authorized under Chapter 92a.61, and as recommended in the SOP.

3. Parameters:

The following parameters were evaluated: pH, Total Suspended Solids, Fecal Coliform, Phosphorus, NH₃-N, CBOD₅, Dissolved Oxygen, and Disinfection.

а. <u>pH</u>

Between 6.0 and 9.0 at all times

Basis: Application of Chapter 93.7 technology-based limits.

The measurement frequency was previously set to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001), and will be retained.

b. <u>Total Suspended Solids</u>

Limits are 30.0 mg/l as a monthly average and 60.0 as an instantaneous maximum.

Basis: Application of Chapter 92a47 technology-based limits

c. Fecal Coliform

05/01 - 09/30:	<u>200/100ml</u>	(monthly average geometric mean)
	<u>1,000/100ml</u>	(instantaneous maximum)
10/01 - 04/30:	<u>2,000/100ml</u> <u>10,000/100ml</u>	(monthly average geometric mean) (instantaneous maximum)
Basis:	Application of	Chapter 92a.47 technology-based limits

d. <u>E. Coli</u>

Monitoring was added for E. Coli at a frequency of 1/quarter.

Basis: Application of Chapter 92a.61 as recommended by the SOP for flows greater than 0.05 MGD but less than 1.0 MGD.

e. <u>Total Phosphorus</u>

Chapter 96.5 does not apply. However, the previous monitoring for Total Phosphorus will be retained in accordance with the SOP, based on Chapter 92a.61.

f. Total Nitrogen

The previous monitoring for Total Nitrogen will be retained in accordance with the SOP, based on Chapter 92a.61.

g. <u>Ammonia-Nitrogen (NH₃-N)</u>

Median discharge pH to be used:	<u>6.9</u>	Standard Units (S.U.)				
	Ba	asis: Average pH value from DMR summary				
Discharge temperature:	<u>25°C</u>	(default value used for modeling purposes)				
Median stream pH to be used:	<u>7.0</u>	Standard Units (S.U.)				
	Ba	asis: Default value used for modeling purposes				
Stream Temperature:	<u>25°C</u>	(default value used for TSF modeling purposes)				
Background NH ₃ -N concentration:	<u>N/A</u>	mg/l				
	Ba	asis: No background data available for NH ₃ -N.				
Calculated NH ₃ -N Summer limits:						
	<u>25.0</u>	mg/l (monthly average)				
Calculated NH3-N Summer limits.	<u>25.0</u> <u>50.0</u>	mg/l (monthly average) mg/l (instantaneous maximum)				
Calculated NH ₃ -N Winter limits:						

	same as the pre times the summ	evious permit er limits, but e SOP, mon	e NH ₃ -N summer limits above (see Attachment 1), which are the and will be retained. The winter limits are calculated as three since the technology-based limits are more protective, they will itoring will be required in lieu of limits, as was done in the
h.	<u>CBOD₅</u>		
	Median discharge pH to be use	ed: <u>6.9</u>	Standard Units (S.U.)
		В	asis: <u>Average pH value from DMR summary</u>
	Discharge temperatu	re: <u>25°C</u>	(default value used for modeling purposes)
	Median stream pH to be use	ed: <u>7.0</u>	Standard Units (S.U.)
		В	asis: Default value used for modeling purposes
	Stream Temperatu	re: <u>25°C</u>	(default value used for TSF modeling purposes)
	Background CBOD5 concentration	on: <u>2.0</u>	mg/l
		В	asis: <u>Default value</u>
	Calculated CBOD₅ lim	its: <u>25.0</u> <u>50.0</u>	mg/l (monthly average) mg/l (instantaneous maximum)

- Result: <u>WQ modeling resulted in the above CBOD₅ limits (see Attachment 1), which are the same as the previous permit and will be retained.</u>
- i. Influent Total Suspended Solids and BOD₅

Monitoring for these two parameters will be retained as recommended in the SOP for POTWs, as authorized under Chapter 92a.61.

j. <u>Dissolved Oxygen (DO)</u>

The Dissolved Oxygen minimum of 4.0 mg/l will be retained with this renewal. The technology-based minimum is recommended by the WQ Model (see Attachment 1) and the SOP based on Chapter 93.7, under the authority of Chapter 92a.61.

The measurement frequency was previously set to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001), and will be retained.

k. <u>Disinfection</u>

- Ultraviolet (UV) light monitoring
- TRC limits: mg/l (monthly average)

mg/l (instantaneous maximum)

Basis: The previous UV Intensity (µw/cm²) reporting will be retained with this renewal.

The measurement frequency was previously set to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001), and will be retained.

4. Reasonable Potential Analysis for Receiving Stream:

A Reasonable Potential Analysis was not performed in accordance with State practices using the Department's Toxics Management Spreadsheet since no sampling other than sewage-related parameters was performed for this facility with the renewal application.

5. Reasonable Potential for Downstream Public Water Supply (PWS):

The Department's Toxics Management Spreadsheet does not calculate limits for parameters that are based on PWS criteria (TDS, Chloride, Bromide, and Sulfate). However, since no sample data was provided, mass-balance calculations were not performed.

Nearest Downstream potable water supply (PWS):Redbank Valley Municipal AuthorityDistance downstream from the point of discharge:2.0miles (approximate)

Result: No limits or monitoring is necessary as there is significant dilution available.

6. Flow Information:

100% of the wastewater flow comes from the Hawthorn Borough. All the sewers in the system are separate sewers.

7. Anti-Backsliding:

Since all the permit limits in this renewal are the same or more restrictive than the previous NPDES Permit, antibacksliding is not applicable.

8. Attachment Details:

Attachment 1 - WQ Modeling Printouts

Attachment 2 - WMS Open Violations by Client

(The Attachments above can be found at the end of this document)

Compliance History

DMR Data for Outfall 001 (from June 1, 2022 to May 31, 2023)

Parameter	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22
Flow (MGD)												
Average Monthly	0.102	0.113	0.124	0.109	0.134	0.119	0.107	0.096	0.095	0.087	0.093	0.108
Flow (MGD)												
Weekly Average	0.112	0.122	0.125	0.112	0.143	0.127	0.128	0.103	0.101	0.088	0.101	0.128
pH (S.U.)												
Instantaneous Minimum	6.7	6.6	6.6	6.6	6.6	6.7	6.7	6.8	6.9	6.9	6.8	6.8
pH (S.U.)												
Instantaneous Maximum	7.0	7.0	6.9	6.9	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.2
DO (mg/L)												
Instantaneous Minimum	5.02	7.19	6.34	7.43	5.16	7.21	7.24	7.36	6.25	5.16	5.32	6.05
CBOD5 (lbs/day)												
Average Monthly	2.7	2.8	2.5	1.8	2.1	1.8	1.6	1.6	1.5	1.4	1.4	1.9
CBOD5 (lbs/day)												
Weekly Average	3.6	2.8	3.1	1.9	2.4	1.9	1.6	1.6	1.6	1.5	1.5	2.2
CBOD5 (mg/L)												
Average Monthly	2.9	3.0	2.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
CBOD5 (mg/L)												
Weekly Average	3.6	3.1	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
BOD5 (lbs/day)												
Raw Sewage Influent												
Average Monthly	110	110	131	165	208	87	283	147	173	90	130	100
BOD5 (mg/L)												
Raw Sewage Influent												
Average Monthly	121.3	120	144	182	192	96.2	356	188.7	228	129	188	101
TSS (lbs/day)												
Average Monthly	4.6	5.4	5.0	4.5	5.2	4.5	5.1	6.8	6.6	3.5	3.5	4.8
TSS (lbs/day)												
Raw Sewage Influent			105	450	100	100	005		470		4.40	400
Average Monthly	77	81	135	152	188	108	265	90	173	84	146	106
TSS (lbs/day)	5.0	6.2	5.3	4.7	6.4	4.0	<u> </u>		0.5	0.7	2.0	5.4
Weekly Average	5.0	6.2	5.3	4.7	6.1	4.8	6.4	8.2	9.5	3.7	3.6	5.4
TSS (mg/L)	5.0	6.0	5 5	5.0	5.0	5.0	6 F	0 5	0 5	5.0	5.0	50
Average Monthly	5.0	6.0	5.5	5.0	5.0	5.0	6.5	8.5	8.5	5.0	5.0	5.0
TSS (mg/L) Raw Sewage Influent												
Average Monthly	85	88	149	167	172	119	334	113	230	120	210	108
TSS (mg/L)	60	00	149	107	112	119	334	113	230	120	210	100
Weekly Average	5.0	7.0	6.0	5.0	5.0	5.0	8.0	10.0	12.0	5.0	5.0	5.0
weekiy Average	5.0	1.0	0.0	5.0	5.0	5.0	0.0	10.0	12.0	5.0	5.0	5.0

NPDES Permit Fact Sheet Hawthorn Redbank Redbank Municipal Authority WWTP

Fecal Coliform (No./100 ml)												
Geometric Mean	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	38	10	155
Fecal Coliform (No./100 ml)												
Instantaneous Maximum	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	144	10	1099
UV Intensity (µw/cm ²)												
Average Monthly	8.9	12.9	12.5	8.8	7.4	7.0	6.8	11.2	10.6	9.8	13.2	12.4
UV Intensity (µw/cm ²)												
Instantaneous Maximum	14	14.0	14.0	14	12.9	13.1	13	14.0	14.0	14	14.0	14
Total Nitrogen (lbs/day)												
Average Monthly	2.0	3.0	10.0	5.0	6.0	5.0	3.0	1.0	2.0	3.0	3.0	4.0
Total Nitrogen (mg/L)												
Average Monthly	1.79	3.1	10.46	5.09	4.94	5.82	4.13	1.87	2.06	4.27	4.87	4.3
Ammonia (Ibs/day)												
Average Monthly	< 0.2	< 0.20	< 0.2	< 0.20	< 0.1	< 0.6	0.6	0.6	0.08	0.07	0.3	0.2
Ammonia (mg/L)												
Average Monthly	< 0.2	< 0.20	< 0.2	< 0.20	< 0.1	< 0.657	0.8	0.8	0.1	0.1	0.459	0.221
Total Phosphorus (lbs/day)												
Average Monthly	3.0	2.0	3.0	2.0	4.0	3.0	2.0	2.0	3.0	5.0	4.0	3.0
Total Phosphorus (mg/L)												
Average Monthly	3.43	2.16	3.21	2.65	3.89	2.84	2.68	2.64	4.31	6.61	5.1	3.61
Total Aluminum (lbs/day)			0.00			0.40			0.40			0.40
Average Quarterly			< 0.09			< 0.10			< 0.10			< 0.10
Total Aluminum (mg/L)			0.4			0.40			0.40			0.40
Average Quarterly			< 0.1			< 0.10			< 0.10			< 0.10
Total Iron (lbs/day)			< 0.09			< 0.10			< 0.10			0.10
Average Quarterly			< 0.09			< 0.10			< 0.10			0.10
Total Iron (mg/L) Average Quarterly			< 0.1			< 0.10			< 0.10			0.10
			< 0.1			< 0.10			< 0.10			0.10
Total Manganese (lbs/day) Average Quarterly			0.1			< 0.05			< 0.05			< 0.05
Total Manganese (mg/L)			0.1			< 0.03			< 0.03			< 0.05
Average Quarterly			0.16			< 0.05			< 0.05			< 0.05
Average Quarterry			0.10			< 0.0J			< 0.0J			< 0.00

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

			Effluent L	imitations.			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrati	ions (mg/L)		Minimum ⁽²⁾	Required
Farameter	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report	ХХХ	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	xxx	4.0 Inst Min	xxx	XXX	xxx	1/day	Grab
CBOD5	41.7	66.7	ххх	25.0	40.0	50	2/month	24-Hr Composite
BOD5 Raw Sewage Influent	Report	xxx	ххх	Report	XXX	xxx	2/month	8 Grabs/24 Hours
TSS	50.0	75.0	ХХХ	30.0	45.0	60	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	xxx	2/month	8 Grabs/24 Hours
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	xxx	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	ххх	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	xxx	xxx	xxx	XXX	Report	1/quarter	Grab
UV Intensity (µw/cm ²)	XXX	XXX	XXX	Report	XXX	Report	1/day	Measured
Total Nitrogen	Report	XXX	ХХХ	Report	XXX	XXX	2/month	24-Hr Composite
Ammonia-Nitrogen	Report	XXX	ххх	Report	XXX	xxx	2/month	24-Hr Composite
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	ions (mg/L)		Minimum ⁽²⁾	Required
Farameter	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
	Report			Report				24-Hr
Total Aluminum	Avg Qrtly	XXX	XXX	Avg Qrtly	XXX	XXX	1/quarter	Composite
	Report			Report				24-Hr
Total Iron	Avg Qrtly	XXX	XXX	Avg Qrtly	XXX	XXX	1/quarter	Composite
	Report			Report				24-Hr
Total Manganese	Avg Qrtly	XXX	XXX	Avg Qrtly	XXX	XXX	1/quarter	Composite

Compliance Sampling Location: at Outfall 001, after Ultraviolet (UV) light disinfection.

Flow is monitor only based on Chapter 92a.61. The limits for pH and Dissolved Oxygen are technology-based on Chapter 93.7. The limits for CBOD₅, Total Suspended Solids, and Fecal Coliforms are technology-based on Chapter 92a.47. Monitoring for UV Intensity, Total Nitrogen, Total Phosphorus, Ammonia-Nitrogen, influent BOD5 and influent Total Suspended Solids, and Aluminum, Iron, and Manganese is based on Chapter 92a.61.

Attachment 1

	<u>SWP Basin</u> 17C	<u>Stream Code</u> 48064		<u>Stream Name</u> REDBANK CRE	-		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
26.000	Redbank	PA0263893	0.200	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

WQM 7.0 Effluent Limits

	ream Code		_	Stream Name	
17C	48064		R	EDBANK CREEK	
RMI	Total Discharge	Flow (mgd) <u>Ana</u>	lysis Temperature (°C)	Analysis pH
26.000	0.20	0		25.000	6.999
Reach Width (ft)	<u>Reach De</u>	pth (ft)		Reach WDRatio	Reach Velocity (fps)
111.480	1.00	2		111.264	0.521
Reach CBOD5 (mg/L)	Reach Kc (1/days)	R	<u>leach NH3-N (mg/L)</u>	Reach Kn (1/days)
2.12	0.08	Sector and		0.13	1.029
Reach DO (mg/L)	<u>Reach Kr (</u>			Kr Equation	Reach DO Goal (mg/L)
7.521	12.35	i3		Tsivoglou	5
<u>Reach Travel Time (days)</u>		Subreach	Results		
0.153	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.015	2.12	0.13	7.54	
	0.031	2.12	0.13	7.54	
	0.046	2.11	0.13	7.54	
	0.061	2.11	0.12	7.54	
	0.076	2.11	0.12	7.54	
	0.092	2.10	0.12	7.54	
	0.107	2.10	0.12	7.54	
	0.122	2.10	0.12	7.54	
	0.137	2.09	0.12	7.54	
	0.153	2.09	0.11	7.54	

WQM 7.0 D.O.Simulation

Tuesday, July 11, 2023

Version 1.1

Page 1 of 1

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	\checkmark
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	✓
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	5		

Tuesday, July 11, 2023

Version 1.1

Page 1 of 1

Input Data WQM 7.0

	SWF Basii			Stre	am Name		RMI	Ele	vation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	With	WS ndrawal ngd)	Apply FC
	17C	480	064 REDB	ANK CRE	EK		26.00	00	1080.00	482.2	0.000	00	0.00	\checkmark
2					St	tream Da	ta							3
Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tem (°C			<u>Strea</u> 「emp (°C)	am pH	
Q7-10 Q1-10 Q30-10	0.120	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	2	51	.00	0.00	0.00	į.
					D	ischarge	Data							

	DIS	charge D	ata					
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Rese Fac	erve T stor	Disc emp (°C)	Disc pH
Redbank	PA0263893	0.2000	0.0000	0.000	0 0	0.000	25.00	6.90
	Par	ameter D	ata					
D	arameter Name	Dis Co			eam onc	Fate Coef		
F	arameter Name	(mg	/L) (mg/	′L) (m	g/L)	(1/days)		
CBOD5		2	5.00 2	2.00	0.00	1.50	2 	
Dissolved (Dxygen	0	4.00 7	7.54	0.00	0.00		
NH3-N		2	5.00 0	0.00	0.00	0.70		

Input Data WQM 7.0

	SWF Basir			Stre	eam Name		RMI	Elevat (ft)		Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
	17C	480	064 REDB	ANK CRE	EK		24.70)0 104	49.00	502.20	0.00000	0.00	\checkmark
-					St	ream Dat	ta						
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	<u>]</u> Temp	<u>Fributary</u> pH	Tem	<u>Stream</u> p pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C))	
Q7-10	0.120	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25	.00 7.0	00 (0.00 0.00	
Q1-10		0.00	0.00	0.000	0.000								
Q30-10		0.00	0.00	0.000	0.000								
					Di	scharge	Data						
			Name	Per	mit Number	Existing Disc	Permitte Disc	ed Design Disc Elow	Rese				

Name	Permit Number	Disc Flow (mgd)	Disc Flow (mgd)	Disc Flow (mgd)	Rese Fac	tor	emp (°C)	рН
-		0.0000	0.0000	0.0000) 0	.000	25.00	7.00
	Par	ameter Dat	a					
		Disc Conc	Trib Con		eam onc	Fate Coef		
P	arameter Name	(mg/l	.) (mg/	L) (m	g/L)	(1/days)		
CBOD5		25.	00 2	2.00	0.00	1.50	(
Dissolved C	Dxygen	3.	00 8	.24	0.00	0.00	Ċ.	
NH3-N		25.	00 C	0.00	0.00	0.70	Ū	

			AA CKI	1 7.0	пум	ouyn	unno	Out	Julo			
	SW	P Basin	Strea	am Code				Stream	Name			
	8	17C	4	8064			RI	EDBANK	CREEK			
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Tra∨ Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
26.000	57.86	0.00	57.86	.3094	0.00452	1.002	111.48	111.26	0.52	0.153	25.00	7.00
Q1-1	0 Flow											
26.000	37.03	0.00	37.03	.3094	0.00452	NA	NA	NA	0.41	0.196	25.00	7.00
Q30-	10 Flow	t l										
26.000	78.70	0.00	78.70	.3094	0.00452	NA	NA	NA	0.62	0.129	25.00	7.00

WQM 7.0 Hydrodynamic Outputs

Tuesday, July 11, 2023

Version 1.1

Page 1 of 1

	<u>SWP Basin</u> 17C		a <u>m Code</u> 8064			<u>ream Name</u> BANK CREEM	¢		
NH3-N	Acute Alloc	ation	s						
RMI	Discharge	Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction	
26.00	00 Redbank		11.08	50	11.08	50	0	0	-1
	Chronic All		ons Baseline Criterion	Baseline WLA	Multiple Criterion	Multiple WLA	Critical Reach	Percent Reduction	
RMI	Discharge N	ame	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Redon	Reduction	
	Discharge N 00 Redbank	ame					0	0	
26.00			(mg/L) 1.37	(mg/L)	(mg/L)	(mg/L)			-
26.00	00 Redbank	Alloc	(mg/L) 1.37 ations	(mg/L) 25 <u>280D5</u> ne Multiple	(mg/L) 1.37 <u>NH3-N</u> Baseline Mu	(mg/L) 25	0 ved Oxygen ne Multiple	0 Critical	- Percent Reductio

Tuesday, July 11, 2023

Version 1.1

Attachment 2



Client ID: 43381 Client: All WATER MANAGEMENT SYSTEM OPEN VIOLATIONS BY CLIENT

сц	ENT ID	CLIENT	PF ID	FACILITY	PF KIND	PFSTATUS	INSP PROGRAM	PROGRAM SPECIFIC ID
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	477743	HAWTHORN REDBANK REDBANK MA	Community	Active	Safe Drinking Water	6160026
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA0263893
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA0263893
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3361	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3361	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3361	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3381	HAWTHORN REDBANK REDBANK MUNI AUTH	744133	HAWTHORN REDBANK REDBANK MUN AUTH WWTP	Sewage Publicly Owned (Muni)	Active	WPC NPDES	PA026389
43	3361	HAWTHORN REDBANK REDBANK MUNI AUTH	477743	HAWTHORN REDBANK REDBANK MA	Community	Active	Safe Drinking Water	SM226380

INSP ID	VIOLATION ID	INSPECTION CATEGORY	VIOLATION	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION
3396171	962531	PF	07/22/2022	C3F	FAILURE TO TEST ALARM AND SHUTDOWN CAPABILITIES OR RESPOND TO ALARM AND SHUTDOWN EQUIPMENT FAILURES	MUMFORD, MIRANDA	NWRO
3218650	923041	PF	06/10/2021	92A.61(C)	NPDES - Failure to monitor pollutants as required by the NPDES permit	STONESIFER, CLINTON	NWRO
3218650	923042	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER CLINTON	NWRO
3218650	923043	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER, CLINTON	NWRO
3218650	923044	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER, CLINTON	NWRO
3218650	923045	PF	06/10/2021	252.4(A)	NPDES - Failure to utilize an accredited environmental laboratory for testing or analysis of environmental samples	STONESIFER, CLINTON	NWRO
3218650	923046	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER, CLINTON	NWRO
3218650	923047	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER, CLINTON	NWRO
3218650	923048	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER, CLINTON	NWRO
3218650	923049	PF	06/10/2021	92A.41(A)10B	NPDES - Failure to utilize approved analytical methods	STONESIFER, CLINTON	NWRO
3218650	923050	PF	06/10/2021	92A.41(A)8	NPDES - Failure to provide information or records required by the permit or otherwise needed to determine compliance	STONESIFER, CLINTON	NWRO
3218650	923051	PF	06/10/2021	92A.61(F)1	NPDES - Failure to properly document monitoring activities and results	STONESIFER, CLINTON	NWRO
3218650	923052	PF	06/10/2021	92A.61(F)1	NPDES - Failure to properly document monitoring activities and results	STONESIFER, CLINTON	NWRO
3218650	923053	PF	06/10/2021	92A.61(F)1	NPDES - Failure to properly document monitoring activities and results	STONESIFER, CLINTON	NWRO
3218650	923054	PF	06/10/2021	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	STONESIFER, CLINTON	NWRO
3218650	923055	PF	06/10/2021	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	STONESIFER, CLINTON	NWRO
3218650	923056	PF	06/10/2021	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	STONESIFER CLINTON	NWRO
3218650	923057	PF	06/10/2021	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	STONESIFER, CLINTON	NWRO
3218650	923058	PF	06/10/2021	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or property complete monitoring reports	STONESIFER, CLINTON	NWRO
3218650	923059	PF	06/10/2021	CSL611	CSL - Failure to comply with terms and conditions of a WQM permit	STONESIFER, CLINTON	NWRO
3218650	923060	PF	06/10/2021	CSL611	CSL - Failure to comply with terms and conditions of a WQM permit	STONESIFER CLINTON	NWRO
3218650	923061	PF	06/10/2021	CSL611	CSL - Failure to comply with terms and conditions of a WQM permit	STONESIFER, CLINTON	NWRO
3218650	923062	PF	06/10/2021	302.1201	Operator Certification - Operator failed to comply with the Act or Chapter 302 regulations	STONESIFER, CLINTON	NWRO
3218650	923063	PF	06/10/2021	302.1201	Operator Certification - Operator failed to comply with the Act or Chapter 302 regulations	STONESIFER, CLINTON	NWRO
3559851	996134	PF	05/25/2023	46	DISINFECTION/DISINFECTION BYPRODUCTS PRECURSOR REMOVAL VIOLATION	MUMFORD, MIRANDA	NWRO