

Application Type Renewal
Facility Type Non-Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0240001
APS ID 1076548
Authorization ID 1419079

Applicant and Facility Information

Applicant Name	<u>PA DCNR Bureau of State Parks</u>	Facility Name	<u>Clear Creek State Park</u>
Applicant Address	<u>38 Clear Creek Park Road</u> <u>Sigel, PA 15860-9502</u>	Facility Address	<u>1347 Clear Creek Park Road</u> <u>Sigel, PA 15860-9502</u>
Applicant Contact	<u>Ryan Borcz (clearcreeksp@pa.gov)</u>	Facility Contact	<u>Ryan Borcz (clearcreeksp@pa.gov)</u>
Applicant Phone	<u>(814) 752-2368</u>	Facility Phone	<u>(814) 752-2368</u>
Client ID	<u>52524</u>	Site ID	<u>451760</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Barnett Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Jefferson</u>
Date Application Received	<u>November 28, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>December 2, 2022</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of an existing NPDES Permit for an existing discharge of treated sanitary wastewater from a non-municipal sewer system.</u>		

Summary of Review

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. Public Sewerage Availability

SPECIAL CONDITIONS:

- II. Solids Management

There are 31 open violations in efacts associated with the subject Client ID (52524) as of 2/15/2024 (see Attachment 1).

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	2/15/2024
X		Vacant / Environmental Engineer Manager	Okay to Draft JCD 2/20/2024

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.00535</u>
Latitude	<u>41° 19' 58.00"</u>	Longitude	<u>-79° 06' 17.00"</u>
Quad Name	<u>-</u>	Quad Code	<u>-</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Clarion River (CWF)</u>	Stream Code	<u>49224</u>
NHD Com ID	<u>102668109</u>	RMI	<u>60.0</u>
Drainage Area	<u>741</u>	Yield (cfs/mi ²)	<u>0.21</u>
Q ₇₋₁₀ Flow (cfs)	<u>155.6</u>	Q ₇₋₁₀ Basis	<u>calculated</u>
Elevation (ft)	<u>1194</u>	Slope (ft/ft)	<u>0.00070</u>
Watershed No.	<u>17-B</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>-</u>		
Source(s) of Impairment	<u>-</u>		
TMDL Status	<u>Final, April 9, 2009</u>	Name	<u>Lower Clarion River Watershed</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>		<u>-</u>
Temperature (°F)	<u>-</u>		<u>-</u>
Hardness (mg/L)	<u>-</u>		<u>-</u>
Other:	<u>-</u>		<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>PA American Water Company - Clarion</u>		
PWS Waters	<u>Clarion River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>33.4</u>	Distance from Outfall (mi)	<u>27.0</u>

Sludge use and disposal description and location(s): All sludge 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 0.00535 MGD of treated sewage from an existing non-municipal STP in Barnett Township, Jefferson County.

Treatment permitted under Water Quality Management (WQM) Permit No. 3307401 consists of the following:

Four pump stations with septic tanks, a common recirculating sand filter, and ultraviolet (UV) light disinfection.

The permittee still holds WQM Permit No. 3393404 A-1, which receives wastewater from a shower house and a campground. This system has a subsurface discharge and is therefore not associated with treated sewage being discharged via this NPDES Permit.

1. Streamflow:

Clarion River at Cooksburg, PA (1954-2008) - USGS Gage 03029500:

Drainage Area:	<u>807</u>	sq. mi.	(USGS StreamStats)
Q ₇₋₁₀ :	<u>171</u>	cfs	(USGS StreamStats)
Yieldrate:	<u>0.21</u>	cfsm	(calculated)

Clarion River at Outfall 001:

Yieldrate:	<u>0.21</u>	cfsm	(calculated above)
Drainage Area:	<u>741</u>	sq. mi.	(USGS StreamStats)
% of stream allocated:	<u>100%</u>	Basis:	No nearby discharges
Q ₇₋₁₀ :	<u>155.6</u>	cfs	(USGS StreamStats)

2. Wasteflow:

Maximum discharge: 0.00535 MGD = 0.00828 cfs

Runoff flow period: 24 hours Basis: Runoff flow for septic tank/sand filter systems

The calculated stream flow (Q₇₋₁₀) is greater than 3 times the permitted discharge flow. In accordance with the SOP, the treatment requirements in document number 391-2000-014, titled, "Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers", dated April 12, 2008, were not evaluated for this facility.

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, E. Coli, Total Phosphorus, Total Nitrogen, NH₃-N, CBOD₅, Dissolved Oxygen, and Disinfection.

a. pH

Between 6.0 and 9.0 at all times

Basis: Application of Chapter 93.7 technology-based limits.

The previous monitoring frequencies will be retained in accordance with the sampling schedule for state parks that was agreed upon by DCNR and DEP.

b. Total Suspended Solids

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: 200/100ml (monthly average geometric mean)
1,000/100ml (instantaneous maximum)

10/01 - 04/30: 2,000/100ml (monthly average geometric mean)
10,000/100ml (instantaneous maximum)

Basis: Application of Chapter 92a47 technology-based limits

d. E. Coli

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

Basis: Application of Chapter 92a.61 as recommended by the SOP for flows between 0.002 MGD and 0.05 MGD.

e. Total Phosphorus

Monitoring for Total Phosphorus will be retained in accordance with the SOP, based on Chapter 92a.61.

f. Total Nitrogen

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

g. Ammonia-Nitrogen (NH₃-N)

Median discharge pH to be used: 6.4 Standard Units (S.U.)

Basis: eDMR data from previous 12 months

Discharge temperature: 25°C (default value used in the absence of data)

Median stream pH to be used: 7.0 Standard Units (S.U.)

Basis: default value used in the absence of data

Stream Temperature: 20°C (default value used for CWF modeling)

Background NH₃-N concentration: 0.1 mg/l

Basis: Default value

Calculated NH₃-N Summer limits: 25.0 mg/l (monthly average)
50.0 mg/l (instantaneous maximum)

Calculated NH₃-N Winter limits: 25.0 mg/l (monthly average)
50.0 mg/l (instantaneous maximum)

Result: WQ modeling resulted in the summer limits above (see Attachment 2). The winter limits are calculated as three times the summer limits, but since the technology-based limits would govern, they will be used. The calculated limits are the same as in the previous permit. Per the SOP, year round monitoring will be retained with this renewal.

h. CBOD₅

Median discharge pH to be used: 6.4 Standard Units (S.U.)

Basis: eDMR data from previous 12 months

Discharge temperature: 25°C (default value used in the absence of data)

Median stream pH to be used: 7.0 Standard Units (S.U.)

Basis: default value used in the absence of data

Stream Temperature: 20°C (default value used for CWF modeling)

Background CBOD₅ concentration: 2.0 mg/l

Basis: Default value

Calculated CBOD₅ limits: 25.0 mg/l (monthly average)
50.0 mg/l (instantaneous maximum)

Result: WQ modeling resulted in the limits above (see Attachment 2). The calculated limits are the same as the previous permit and will be retained.

i. Dissolved Oxygen (DO)

The technology-based minimum of 4.0 mg/l is recommended by the WQ Model (see Attachment 2) and the SOP based on Chapter 93.7, under the authority of Chapter 92a.61. This limit is the same as the previous permit and will be retained.

The previous monitoring frequencies will be retained in accordance with the sampling schedule for state parks that was agreed upon by DCNR and DEP.

j. Disinfection

Ultraviolet (UV) light

Total Residual Chlorine (TRC): _____ mg/l (monthly average)
_____ mg/l (instantaneous maximum)

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

The previous monitoring frequencies will be retained in accordance with the sampling schedule for state parks that was agreed upon by DCNR and DEP.

4. Reasonable Potential Analysis for Receiving Stream:

A Reasonable Potential Analysis was not performed in accordance with State practices for Outfall 001 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). Since no relevant sampling was provided, mass-balance calculations were not performed.

Nearest Downstream potable water supply (PWS): PA American Water Company - Clarion

Distance downstream from the point of discharge: 27.0 miles

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

6. Anti-Backsliding:

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

7. Attachment List:

Attachment 1 - WMS Open Violations by Client

Attachment 2 - WQ Modeling Printouts

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

Compliance History

DMR Data for Outfall 001 (from January 1, 2023 to December 31, 2023)

Parameter	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23
Flow (MGD) Average Monthly		0.00042	0.00007	0.00007	0.00013	0.00017	0.00014	0.0001	0.0001			
Flow (MGD) Daily Maximum		0.0020	0.00019	0.00017	0.00052	0.00020	0.00018	0.00017	0.0003			
pH (S.U.) Daily Minimum		6.01	6.14	6.01	6.01	6.0	5.88	6.45	6.53			
pH (S.U.) Daily Maximum		6.99	6.96	6.95	6.93	7.20	6.79	8.74	7.46			
DO (mg/L) Daily Minimum		9.0	9.5	5.35	4.99	4.0	4.00	4.00	5.91			
CBOD5 (mg/L) Average Monthly		< 2.40	2.01	< 3.5	7.61	4.97	9.06	6.105	1.24			
TSS (mg/L) Average Monthly		4.00	7.5	8.0	15.50	9.5	23.5	4.59	4.0			
Fecal Coliform (No./100 ml) Geometric Mean		1.76	< 1.0	< 1.0	19.11	50.93	197	< 1.0	< 1.00			
Fecal Coliform (No./100 ml) Instantaneous Maximum		3.1	< 1.0	1.0	365.4	86.2	816.40	< 1.0	< 1.00			
UV Intensity (µw/cm²) Average Monthly		7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.0			
Total Nitrogen (mg/L) Average Quarterly	< 0.50			10.85			1.071					
Ammonia (mg/L) Average Monthly		11.23	36.53	22.45	35.53	14.78	7.627	34.43	1.7			
Total Phosphorus (mg/L) Average Quarterly	7.64			7.28			3.98					

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.

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	1/week	Measured
pH (S.U.) Oct 1 - Apr 30	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	3/week	Grab
pH (S.U.) May 1 - Sep 30	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO Oct 1 - Apr 30	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	3/week	Grab
DO May 1 - Sep 30	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	Grab
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	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
UV Intensity (µw/cm ²) Oct 1 - Apr 30	XXX	XXX	XXX	Report	XXX	XXX	3/week	Measured
UV Intensity (µw/cm ²) May 1 - Sep 30	XXX	XXX	XXX	Report	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	2/month	Grab

Outfall 001 , Continued (from 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		
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

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 E. Coli, UV Intensity, Total Nitrogen, Total Phosphorus, and Ammonia-Nitrogen is based on Chapter 92a.61.



WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

Client ID: 52524
Client: All

Open Violations: 31

	CLIENT ID	CLIENT	PF ID	FACILITY	PF KIND	PF STATUS	INSP PROGRAM	PROGRAM SPECIFIC ID
1	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
2	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
3	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
4	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
5	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
6	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
7	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
8	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5040376
9	52524	PA DCONR	282295	OHIOPYLE ST PK	Transient NonCommunity	Active	Safe Drinking Water	5260800
10	52524	PA DCONR	243230	LAUREL RIDGE STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5260856
11	52524	PA DCONR	243230	LAUREL RIDGE STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5260856
12	52524	PA DCONR	243230	LAUREL RIDGE STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	5260856
13	52524	PA DCONR	284070	PYMATUNING WATERFOWL MUSEUM	Transient NonCommunity	Active	Safe Drinking Water	6201072
14	52524	PA DCONR	284070	PYMATUNING WATERFOWL MUSEUM	Transient NonCommunity	Active	Safe Drinking Water	6201072
15	52524	PA DCONR	290531	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Active	Safe Drinking Water	6201100
16	52524	PA DCONR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Active	Safe Drinking Water	6201162
17	52524	PA DCONR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Active	Safe Drinking Water	6201162
18	52524	PA DCONR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Active	Safe Drinking Water	6201162
19	52524	PA DCONR	542934	PSP ESPYVILLE LIVERY NEW	Transient NonCommunity	Active	Safe Drinking Water	6201162
20	52524	PA DCONR	478629	MCCONNELLS MILL STATE PARK	Transient NonCommunity	Inactive	Safe Drinking Water	6370802
21	52524	PA DCONR	478629	MCCONNELLS MILL STATE PARK	Transient NonCommunity	Inactive	Safe Drinking Water	6370802
22	52524	PA DCONR	248812	RICKETTS GLEN STATE PRK	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0032115
23	52524	PA DCONR	473980	FRANCES SLOCUM STATE PRK	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0032433
24	52524	PA DCONR	257112	HICKORY RUN STATE PRK/ SEW	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0032999
25	52524	PA DCONR	249912	WASHINGTON CROSSING HISTORICAL PARK UPPER WWTP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0042978
26	52524	PA DCONR	526845	WASHINGTON CROSSING HISTORICAL PARK UPPER WWTP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0051268
27	52524	PA DCONR	526845	WASHINGTON CROSSING HISTORICAL PARK UPPER WWTP	Sewage Non-Publicly Owned (Non-Muni)	Active	WPC NPDES	PA0051268
28	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	SM2324028
29	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	SM2327187
30	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	SM2332781
31	52524	PA DCONR	283088	RACCOON CREEK STATE PARK	Transient NonCommunity	Active	Safe Drinking Water	SM2338284

	INSP ID	VIOLATION ID	INSPECTION CATEGORY	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION
1	3616033	8158820	PF	09/18/2023	C3E	FAILURE TO IMPLEMENT A FILTER BED EVALUATION PROGRAM	SHAFFER,SHEILA	SWRO
2	3616033	8158822	PF	09/18/2023	B8A	CHRONIC FAILURE TO MONITOR	SHAFFER,SHEILA	SWRO
3	3616033	8158823	PF	09/18/2023	C3F	FAILURE TO TEST ALARM AND SHUTDOWN CAPABILITIES OR RESPOND TO ALARM AND SHUTDOWN EQUIPMENT FAILURES	SHAFFER,SHEILA	SWRO
4	3616033	8158824	PF	09/18/2023	C9	EXCEEDANCE OF A SECONDARY MCL	SHAFFER,SHEILA	SWRO
5	3616033	8158825	PF	09/18/2023	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SHAFFER,SHEILA	SWRO
6	3616033	8158826	PF	09/18/2023	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SHAFFER,SHEILA	SWRO
7	3616033	8158827	PF	09/18/2023	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SHAFFER,SHEILA	SWRO
8	3616033	8158828	PF	09/18/2023	D3	FAILURE TO ACCURATELY REPORT DATA	SHAFFER,SHEILA	SWRO
9	3562653	996961	PF	06/01/2023	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	RANERI,PHILIP	SWRO
10	3295585	939255	PF	12/16/2021	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	RANERI,PHILIP	SWRO
11	3295585	939256	PF	12/16/2021	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	RANERI,PHILIP	SWRO
12	3311857	943058	PF	01/19/2022	24	FAILED TO MONITOR OR REPORT THE REQUIRED NUMBER OF TOTAL COLIFORM SAMPLES	RANERI,PHILIP	SWRO
13	3330681	947059	PF	03/10/2022	A1	CIRCUMSTANCES EXIST WHICH ADVERSELY AFFECT THE QUANTITY OR QUALITY OF WATER	SMITH,PHILIP	NWRO
14	3330681	947060	PF	03/10/2022	C1F	CROSS-CONNECTIONS EXIST WITHOUT PROPER BACKFLOW PROTECTION	SMITH,PHILIP	NWRO
15	3381568	959738	PF	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	BAUGHMAN,LISA	NWRO
16	3381842	959782	PF	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SMITH,PHILIP	NWRO
17	3381842	959783	PF	06/22/2022	C1A	FAILURE TO MEET DESIGN AND CONSTRUCTION STANDARDS	SMITH,PHILIP	NWRO
18	3381842	959784	PF	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SMITH,PHILIP	NWRO
19	3381842	959785	PF	06/22/2022	C4A	FAILURE TO OPERATE AND MAINTAIN THE WATER SYSTEM	SMITH,PHILIP	NWRO
20	3253439	930330	PF	09/20/2021	C2F	FAILURE TO SAMPLE AT APPROPRIATE LOCATIONS OR FOLLOW SAMPLE COLLECTION PROTOCOLS	BLAKE,JOSHUA	NWRO
21	3253439	930331	PF	09/20/2021	C9	EXCEEDANCE OF A SECONDARY MCL	BLAKE,JOSHUA	NWRO
22	3076161	893343	PF	09/03/2020	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	LACZI,CHRIS	NERO
23	2936782	863003	PF	08/06/2019	92A.41(A)5	NPDES - Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance	LACZI,CHRIS	NERO
24	3383420	960052	PF	06/28/2022	92A.44	NPDES - Violation of effluent limits in Part A of permit	CONFER,SCOTT	NERO
25	3425102	972316	PF	09/20/2022	92A.61(G)	NPDES - Failure to use a format or process required by DEP for self-monitoring results	SINCLAIR,ANDREW	SERO
26	3350012	952048	PF	04/14/2022	92A.41(A)12B	NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports	SINCLAIR,ANDREW	SERO
27	3350012	952049	PF	04/14/2022	92A.61(F)1	NPDES - Failure to properly document monitoring activities and results	SINCLAIR,ANDREW	SERO
28	3706839	8174197	PF	02/06/2024	P1	VIOLATED THE SINGLE SAMPLE PERFORMANCE LEVEL FOR TURBIDITY OR DISINFECTANT RESIDUAL	SHAFFER,SHEILA	SWRO
29	3706640	8174198	PF	02/06/2024	P1	VIOLATED THE SINGLE SAMPLE PERFORMANCE LEVEL FOR TURBIDITY OR DISINFECTANT RESIDUAL	SHAFFER,SHEILA	SWRO
30	3706641	8174199	PF	02/06/2024	P1	VIOLATED THE SINGLE SAMPLE PERFORMANCE LEVEL FOR TURBIDITY OR DISINFECTANT RESIDUAL	SHAFFER,SHEILA	SWRO
31	3706632	8174194	PF	02/06/2024	41	FAILED TO MAINTAIN MICROBIAL TREATMENT	SHAFFER,SHEILA	SWRO

Attachment 2

WQM 7.0 Effluent Limits

<u>SWP Basin</u>		<u>Stream Code</u>		<u>Stream Name</u>			
17B		49224		CLARION RIVER			
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)
60.000	Clear Ck Park	PA0240001	0.005	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

WQM 7.0 D.O.Simulation

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>		
17B	49224	CLARION RIVER		
<u>RMI</u>	<u>Total Discharge Flow (mgd)</u>	<u>Analysis Temperature (°C)</u>	<u>Analysis pH</u>	
60.000	0.005	20.000	7.000	
<u>Reach Width (ft)</u>	<u>Reach Depth (ft)</u>	<u>Reach WDRatio</u>	<u>Reach Velocity (fps)</u>	
204.978	1.124	182.317	0.675	
<u>Reach CBOD5 (mg/L)</u>	<u>Reach Kc (1/days)</u>	<u>Reach NH3-N (mg/L)</u>	<u>Reach Kn (1/days)</u>	
2.00	0.001	0.00	0.700	
<u>Reach DO (mg/L)</u>	<u>Reach Kr (1/days)</u>	<u>Kr Equation</u>	<u>Reach DO Goal (mg/L)</u>	
8.243	2.224	Tsivoglou	6	
<u>Reach Travel Time (days)</u>	Subreach Results			
0.995	<u>TravTime (days)</u>	<u>CBOD5 (mg/L)</u>	<u>NH3-N (mg/L)</u>	<u>D.O. (mg/L)</u>
	0.100	2.00	0.00	8.24
	0.199	2.00	0.00	8.24
	0.299	2.00	0.00	8.24
	0.398	2.00	0.00	8.24
	0.498	2.00	0.00	8.24
	0.597	2.00	0.00	8.24
	0.697	2.00	0.00	8.24
	0.796	2.00	0.00	8.24
	0.896	2.00	0.00	8.24
	0.995	2.00	0.00	8.24

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	<input checked="" type="checkbox"/>
WLA Method	EMPR	Use Inputted W/D Ratio	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	<input type="checkbox"/>
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	<input checked="" type="checkbox"/>
D.O. Saturation	90.00%	Use Balanced Technology	<input checked="" type="checkbox"/>
D.O. Goal	6		

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
17B	49224	CLARION RIVER	60.000	1194.00	741.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary		Stream	
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.210	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Clear Ck Park	PA0240001	0.0054	0.0000	0.0000	0.000	25.00	6.40

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	4.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
17B	49224	CLARION RIVER	49.000	1153.00	806.00	0.00000	0.00	<input checked="" type="checkbox"/>

Stream Data

Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tributary		Stream	
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	Temp (°C)	pH	Temp (°C)	pH
Q7-10	0.210	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

WQM 7.0 Wasteload Allocations

<u>SWP Basin</u>	<u>Stream Code</u>	<u>Stream Name</u>
17B	49224	CLARION RIVER

NH3-N Acute Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
60.000	Clear Ck Park	16.76	50	16.76	50	0	0

NH3-N Chronic Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
60.000	Clear Ck Park	1.89	25	1.89	25	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	<u>CBOD5</u>		<u>NH3-N</u>		<u>Dissolved Oxygen</u>		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
60.00	Clear Ck Park	25	25	25	25	4	4	0	0

WQM 7.0 Hydrodynamic Outputs

<u>SWP Basin</u>		<u>Stream Code</u>				<u>Stream Name</u>						
17B		49224				CLARION RIVER						
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
Q7-10 Flow												
60.000	155.61	0.00	155.61	.0083	0.00071	1.124	204.98	182.32	0.68	0.995	20.00	7.00
Q1-10 Flow												
60.000	99.59	0.00	99.59	.0083	0.00071	NA	NA	NA	0.53	1.278	20.00	7.00
Q30-10 Flow												
60.000	211.63	0.00	211.63	.0083	0.00071	NA	NA	NA	0.80	0.838	20.00	7.00