Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0095524**
Facility Type	**Municipal**	APS ID	**1095476**
Major / Minor	**Minor**	Authorization ID	**1451950**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Tri Comm Sewer Authority**	Facility Name	**Tri Community STP**
Applicant Address	PO Box 86	Facility Address	Treatment Plant Road
	Bolivar, PA 15923-0086		Robinson, PA 15949
Applicant Contact	Pamela Lichtenfels	Facility Contact	Cynthia Shetler
Applicant Phone	(724) 340-2100	Facility Phone	(724) 676-5631
Client ID	43169	Site ID	251682
Ch 94 Load Status	Not Overloaded	Municipality	West Wheatfield Township
Connection Status	No Limitations	County	Indiana
Date Application Received	August 4, 2023	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: NPDES renewal of a minor sewage facility.

Summary of Review

This is a renewal of an existing discharge for a municipal minor sewage facility.

There are currently no open violations for this client (43169) as of 1/22/2024.

WQM modeling was redone to update modeling calculations for Ammonia-Nitrogen monitoring.

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		Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Project Manager	January 22, 2024
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	January 23, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.25
Latitude	40º 23' 52.26"	Longitude	-79º 8' 45.83"
Quad Name	Bolivar	Quad Code	40079D2
Wastewater Description:	Sewage Effluent		

Receiving Waters	Conemaugh River (WWF)	Stream Code	43832
NHD Com ID	123715325	RMI	
Drainage Area	74.1	Yield (cfs/mi^2)	0.096
Q_{7-10} Flow (cfs)	73.8	Q_{7-10} Basis	Stream Gauge 03044000
Elevation (ft)	1003	Slope (ft/ft)	---
Watershed No.	18-D	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	Final	Name	Kiskiminetas-Conemaugh River Watersheds TMDL

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	20	Default
Hardness (mg/L)	100	Default
Other:		

Nearest Downstream Public Water Supply Intake		Westmoreland County Municipal Authority	
PWS Waters	Conemaugh River	Flow at Intake (cfs)	2576
PWS RMI	30	Distance from Outfall (mi)	8.5

Changes Since Last Permit Issuance: None.

Other Comments: The site discharges to the Conemaugh River, for which the Department has developed a Final TMDL for Aluminum, Iron, and Manganese. The site is listed as a negligible discharge in Appendix c of the TMDL, and therefore, no WLA has been given to the site.

Treatment Facility Summary				
Treatment Facility Name: Tri Community STP				
WQM Permit No.	**Issuance Date**			
3284410	1984			
3284410 A-1	August 5, 2020			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary	Aerated Lagoon	Chlorine	0.11
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.25	408	Not Overloaded		

Changes Since Last Permit Issuance: The WQM permit was amended in 2020 for the addition of a dechlorination tablet feeder.

Other Comments: The wastewater treatment process consists of a wet well pump station, primary lagoon, secondary lagoon, a dual chamber chlorine contact tank, and a Norweco Tri-Max tablet feeder using sodium thiosulfate tablets for dechlorination.

Compliance History

DMR Data for Outfall 001 (from November 1, 2023 to October 31, 2024)

Parameter	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23
Flow (MGD) Average Monthly	0.0484	0.0446	0.0641	0.047	0.0551	0.1118	0.2195	0.1246	0.0906	0.213	0.0902	0.0914
Flow (MGD) Daily Maximum	0.0756	0.0637	0.33	0.0663	0.0833	0.3393	0.9523	0.5229	0.2434	0.953	0.3611	0.4506
pH (S.U.) Instantaneous Minimum	6.54	6.51	6.75	6.65	6.43	6.41	6.68	7.22	6.44	6.27	6.73	6.38
pH (S.U.) Instantaneous Maximum	7.1	7.42	7.72	7.83	7.13	7.0	8.87	8.36	8.07	7.34	7.19	7.18
DO (mg/L) Instantaneous Minimum	5.77	3.65	3.06	2.08	2.88	2.26	7.86	8.75	2.67	5.41	14.54	9.9
TRC (mg/L) Average Monthly	0.02	0.03	0.04	0.03	0.04	0.04	0.03	0.1	0.07	0.04	0.04	0.06
TRC (mg/L) Instantaneous Maximum	0.08	0.11	0.12	0.09	0.26	0.17	0.13	0.14	1.08	0.12	0.18	0.21
CBOD5 (lbs/day) Average Monthly	< 1.1	< 2.3	2.7	< 1.3	< 1.7	< 2.0	21.5	8.4	< 3.4	< 4.5	< 1.2	< 1.1
CBOD5 (lbs/day) Weekly Average	2.3	4.3	4.6	2.5	3.9	2.9	73.0	11.5	9.9	11.2	< 1.5	1.7
CBOD5 (mg/L) Average Monthly	< 2.0	< 6.0	7.0	< 3.0	< 4.0	< 3.0	12.0	10.0	< 5.0	< 3.0	< 2.0	< 2.0
CBOD5 (mg/L) Weekly Average	4.0	13.0	11.0	5.0	9.0	5.0	21.0	17.0	14.0	5.0	< 2.0	3.0
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	94	128	96	138	125	174	111	143.0	127	167	151	124
BOD5 (lbs/day) Raw Sewage Influent Daily Maximum	105	158	171	246	217	238	150	182	172	245	214	166
BOD5 (mg/L) Raw Sewage Influent Average Monthly	222	324	234	337	282	218	141	187.0	194	153	247	243

TSS (lbs/day) Average Monthly	5.3	4.1	6.1	< 3.5	2.9	8.8	63.6	17.4	7.2	9.6	5.9	4.8
TSS (lbs/day) Raw Sewage Influent Average Monthly	98	110	80	115	131	163	122	124	84.0	166	122	131
TSS (lbs/day) Raw Sewage Influent Daily Maximum	150	209	219	171	237	271	171	194	102.0	258	177	264
TSS (lbs/day) Weekly Average	7.6	6.7	7.5	4.7	3.7	11.1	201.7	22.2	11.2	12.4	10.4	7.3
TSS (mg/L) Average Monthly	12.0	10.0	15.0	< 9.0	7.0	11.0	42.0	23.0	11.0	7.0	9.0	9.0
TSS (mg/L) Raw Sewage Influent Average Monthly	237	272	196	280	290	206	145	170	130.0	144	198	259
TSS (mg/L) Weekly Average	13.0	15.0	16.0	12.0	9.0	13.0	58.0	42.0	16.0	10.0	15.0	11.0
Fecal Coliform (No./100 ml) Geometric Mean	< 5.0	< 5.0	< 6.0	< 5.0	< 3.0	< 5.0	< 11.0	< 5.0	< 5.0	< 15.0	< 5.0	< 29
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 5.0	< 5.0	10.0	5.0	< 5.0	5.0	113	< 5.0	< 5.0	1124	< 5.0	6016
Total Nitrogen (mg/L) Daily Maximum											17.9	
Ammonia (lbs/day) Average Monthly	< 0.07	0.1	< 0.1	< 0.3	< 0.2	3.0	4.0	6.0	6.0	14	3.0	2.0
Ammonia (mg/L) Average Monthly	< 0.161	0.241	< 0.276	< 0.668	0.474	2.81	1.85	7.46	9.4	10.29	5.61	2.9
Total Phosphorus (mg/L) Daily Maximum											4.1	

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.25
Latitude 40º 23' 53.00" **Longitude** -79º 8' 46.00"
Wastewater Description: Sewage Effluent

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
E. Coli	Report	IMAX		92a.61

Comments: E. Coli monitoring is based on the Department's SOP for new and reissued permits.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
N/A	N/A	N/A	N/A

Comments: WQM 7.0b was run, and modeling did not justify any water quality-based limits.

Best Professional Judgment (BPJ) Limitations

Comments: A dissolved oxygen limit of a minimum of 4.0 mg/l, and monitoring for ammonia-nitrogen, total nitrogen, total phosphorus, influent BOD5 and influent TSS.

Anti-Backsliding

N/A

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	Weekly Average	Average Monthly	Weekly Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
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/week	Grab
TRC	XXX	XXX	0.5	XXX	XXX	1.6	1/day	Grab
CBOD5	52.2	78.2	25.0	40.0	XXX	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	Report	XXX	XXX	XXX	1/week	8-Hr Composite
TSS	62.6	93.9	30.0	45.0	XXX	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	Report	XXX	XXX	XXX	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	Grab
Ammonia	Report	XXX	Report	XXX	XXX	XXX	1/week	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Effluent limits are technology-based limits derived from Chapter 92a and Chapter 95.2, except for Dissolved Oxygen (DO) and Ammonia-Nitrogen (Ammonia), which are Best Professional Judgment standards.

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
18C	43832	CONEMAUGH 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
29.980	Tri Community	9.64	50	9.64	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
29.980	Tri Community	1.91	25	1.91	25	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	CBOD5		NH3-N		Dissolved Oxygen		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
29.98	Tri Community	25	25	25	25	3	3	0	0

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
18C	43832	CONEMAUGH RIVER

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
29.980	0.250	20.026	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
143.434	1.090	131.546	0.476
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
2.12	0.072	0.13	0.701
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
8.216	5.573	Tsivoglou	6
Reach Travel Time (days)			
0.349			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.035	2.11	0.13	8.24
0.070	2.11	0.12	8.24
0.105	2.10	0.12	8.24
0.140	2.10	0.12	8.24
0.174	2.09	0.11	8.24
0.209	2.09	0.11	8.24
0.244	2.08	0.11	8.24
0.279	2.08	0.11	8.24
0.314	2.07	0.10	8.24
0.349	2.07	0.10	8.24

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)
29.980	Tri Community	PA00095524	0.090	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			3

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
18C	43832	CONEMAUGH RIVER	29.980	1003.00	772.00	0.00000	0.00	☑

Stream Data

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)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.096	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
Tri Community	PA00095524	0.0900	0.2500	0.2500	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

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
18C	43832	CONEMAUGH RIVER	**27.260**	967.00	831.00	0.00000	0.00	☑

Stream Data

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)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.095	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 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
18C	43832	CONEMAUGH 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												
29.980	74.11	0.00	74.11	.3868	0.00251	1.09	143.43	131.55	0.48	0.349	20.03	7.00
Q1-10 Flow												
29.980	47.43	0.00	47.43	.3868	0.00251	NA	NA	NA	0.37	0.447	20.04	7.00
Q30-10 Flow												
29.980	100.79	0.00	100.79	.3868	0.00251	NA	NA	NA	0.57	0.294	20.02	7.00

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	☑
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	6		

TRC Spreadsheet- Tri Community STP

TRC EVALUATION

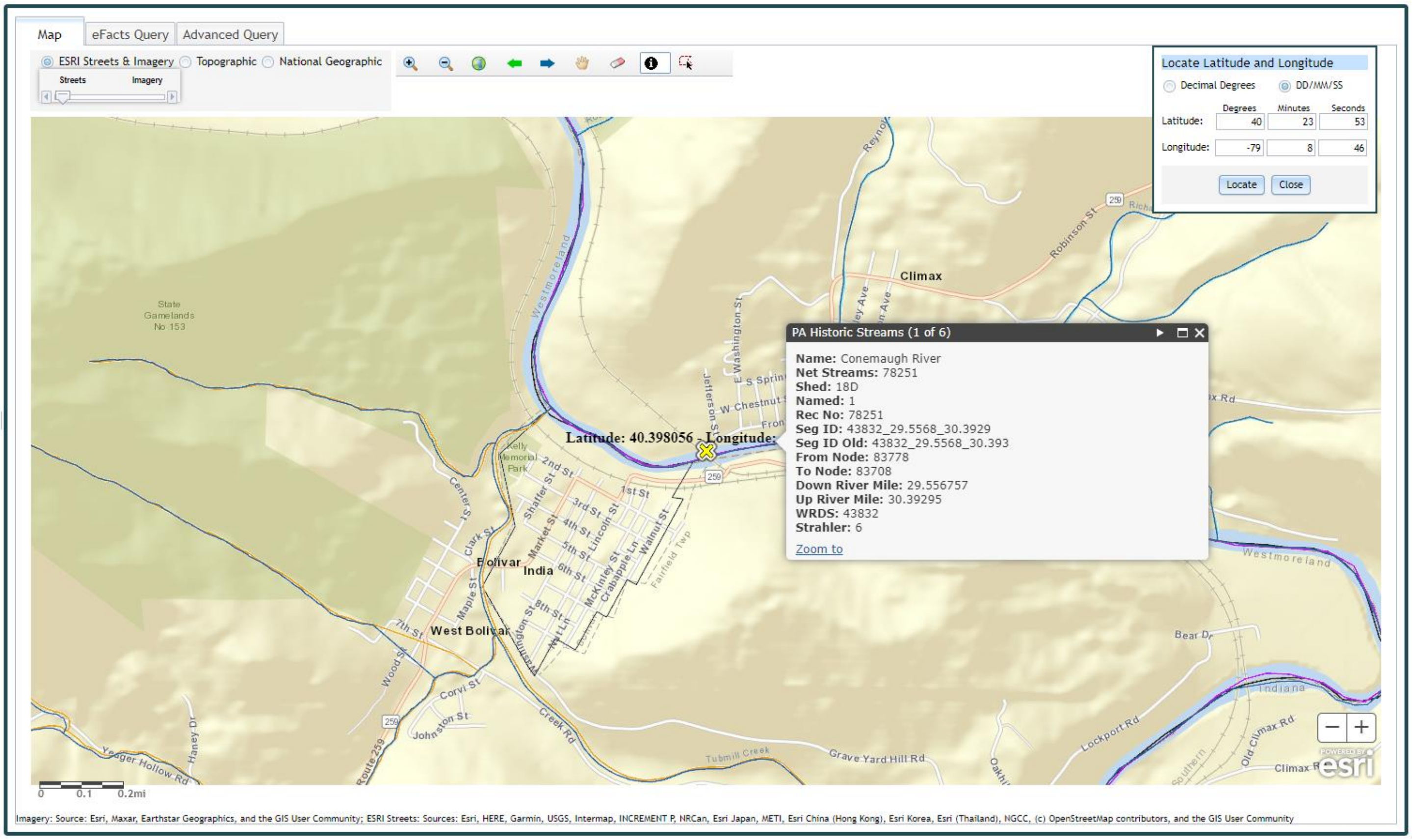
Input appropriate values in A3:A9 and D3:D9

73.8	= Q stream (cfs)	0.5	= CV Daily
0.25	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations		Reference	CFC Calculations	
TRC	1.3.2.iii	WLA afc =	60.891	1.3.2.iii	WLA cfc =	59.356
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc =	0.581
PENTOXSD TRG	5.1b	LTA_afc=	22.689	5.1d	LTA_cfc =	34.507

Source		Effluent Limit Calculations		
PENTOXSD TRG	5.1f	AML MULT =	1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) =	0.500	BAT/BPJ
		INST MAX LIMIT (mg/l) =	1.635	

WLA afc	**(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...** **...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)**
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	**(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))...** **...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)**
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	**1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)**


Map
eFacts Query
Advanced Query
ESRI Streets & Imagery
Topographic
National Geographic
Locate Latitude and Longitude
Decimal Degrees
DD/MM/SS
Latitude: 40 23 53
Longitude: -79 8 46
Locate
Close
PA Historic Streams (1 of 6)
Name: Conemaugh River
Net Streams: 78251
Shed: 18D
Named: 1
Rec No: 78251
Seg ID: 43832_29.5568_30.3929
Seg ID Old: 43832_29.5568_30.393
From Node: 83778
To Node: 83708
Down River Mile: 29.556757
Up River Mile: 30.39295
WRDS: 43832
Strahler: 6
Zoom to
Latitude: 40.398056 Longitude:
Climax
Bolivar
India
West Bolivar
State Gamelands No 153
Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community


Outfall 001
Conemaugh River
Conemaugh River
Market St
United States Postal Service
Google Earth
Imagery Date: 9/26/2019 40°23'52.47" N 79°08'45.81" W elev 1003 ft eye alt 3216 ft