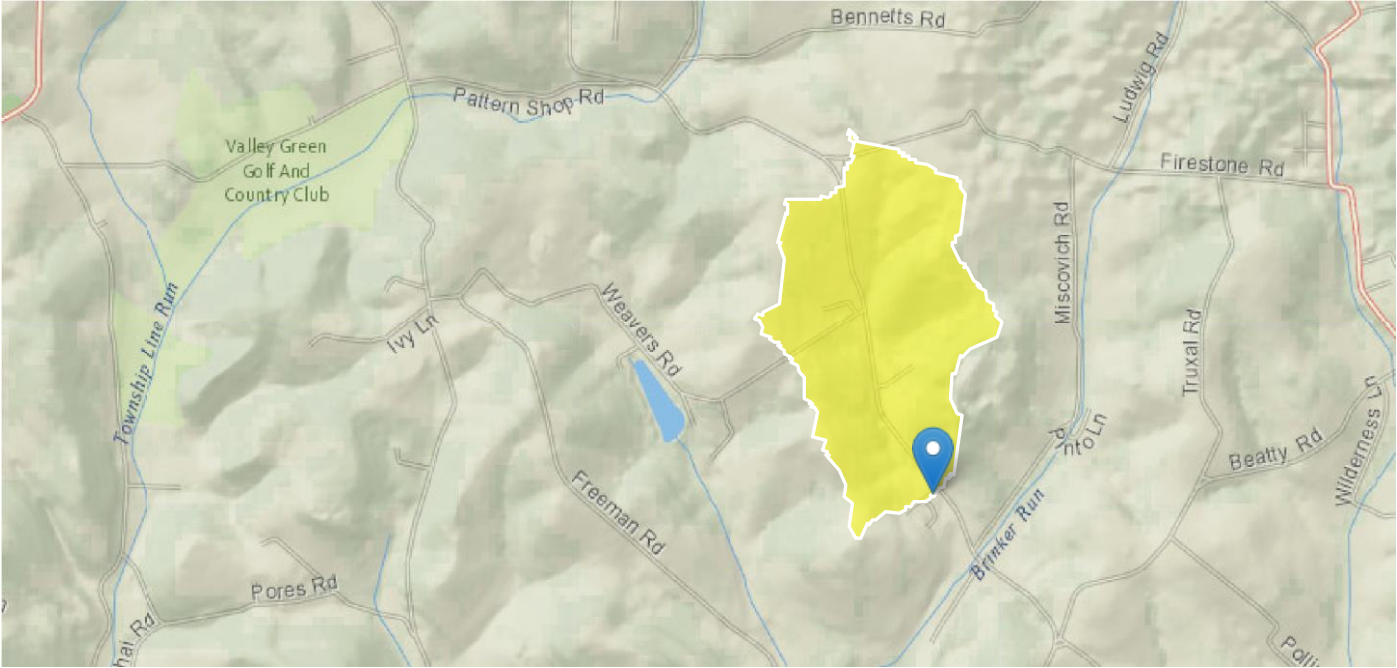


ATTACHMENT A

USGS Stream Stats Output File

StreamStats Report

Region ID: PA
Workspace ID: PA20250225170941615000
Clicked Point (Latitude, Longitude): 40.23915, -79.50039
Time: 2025-02-25 12:10:12 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.42	square miles
ELEV	Mean Basin Elevation	1161	feet
FOREST	Percentage of area covered by forest	34.6274	percent
PRECIP	Mean Annual Precipitation	41	inches
URBAN	Percentage of basin with urban development	0	percent

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.42	square miles	2.26	1400
ELEV	Mean Basin Elevation	1161	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0102	ft ³ /s
30 Day 2 Year Low Flow	0.0204	ft ³ /s
7 Day 10 Year Low Flow	0.00277	ft ³ /s
30 Day 10 Year Low Flow	0.00631	ft ³ /s
90 Day 10 Year Low Flow	0.0134	ft ³ /s

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (<http://pubs.usgs.gov/sir/2006/5130/>)

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Application Version: 4.27.0

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

ATTACHMENT B

TRC Spreadsheet

TRC_CALC_Mutual Mobile Home Park

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.00277	= Q stream (cfs)	0.5	= CV Daily
0.001999	= Q discharge (MGD)	0.5	= CV Hourly
	= no. samples		= AFC_Partial Mix Factor
30	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0.3	= Chlorine Demand of Discharge	1	= AFC_Criteria Compliance Time (min)
	= BAT/BJP Value		= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)	15	=Decay Coefficient (K)
0.5		720	
0			

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 0.305	1.3.2.iii	WLA cfc = 0.290
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.114	5.1d	LTA_cfc = 0.168

Source	Effluent Limit Calculations
PENTOXSD TRG	5.1f AML MULT = 1.231
PENTOXSD TRG	5.1g AVG MON LIMIT (mg/l) = 0.140 INST MAX LIMIT (mg/l) = 0.457

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	$1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)$