

# sSouthwest Regional Office CLEAN WATER PROGRAM

Application Type

Non
Facility Type

Maior / Minor

Minor

# NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0255416

APS ID 1050381

Authorization ID 1374019

|                       |                 | Applicant a      | nd Facility Information |                               |  |  |
|-----------------------|-----------------|------------------|-------------------------|-------------------------------|--|--|
| Applicant Name        | Empire Re       | alty Homes LLC   | Facility Name           | Rolling Hills Village MHP STF |  |  |
| Applicant Address     | 1 Oak Drive     | Э                | Facility Address        | 1 Oak Drive                   |  |  |
|                       | Buena Vist      | a, PA 15018-9534 |                         | Buena Vista, PA 15018         |  |  |
| Applicant Contact     | Aman Gula       | ti               | Facility Contact        | Same as Applicant             |  |  |
| Applicant Phone       | (484) 498-4     | 1000             | Facility Phone          | Same as Applicant             |  |  |
| Client ID             | 366366          |                  | Site ID                 | 238039                        |  |  |
| Ch 94 Load Status     | Not Overloa     | aded             | Municipality            | Elizabeth Township            |  |  |
| Connection Status     | No Limitation   | ons              | County                  | Allegheny                     |  |  |
| Date Application Rece | eived <u>De</u> | ecember 15, 2017 | EPA Waived?             | Yes                           |  |  |
| Date Application Acce | epted O         | ctober 27, 2021  | If No, Reason           |                               |  |  |

### **Summary of Review**

This facility was previously permitted by PA0095346, however, that permit was terminated by central office in 2012 due to the previous owner's refusal to renew the permit.

The permittee has applied for New NPDES Permit No PA0255416. Along with the permit number, the permittee is changing during this renewal. The previous permittee was David Fiore and the new permittee is Empire Realty Homes LLC.

Associated WQM Permit No. 0278405 is pending transfer upon approval from the Department.

Sewage from this facility is treated with activated sludge, secondary clarification, and gas chlorination before discharging through Outfall 001 to the Youghiogheny River (ID 37456). The Youghiogheny River is classified as a Warm Water Fishery (WWF) per Chapter 93 designated use.

The applicant has complied with Act 14 Notifications and no comments were received.

Sludge produced at this facility is disposed of in a local 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-

| Approve | Deny | Signatures  | Date              |
|---------|------|---|-------------------|
| Х       |      | It al   |                   |
|         |      | Stephanie Conrad / Environmental Engineering Specialist       | March 16, 2021    |
| х       |      | MAHBUBA IASMIN  |                   |
|         |      | Mahbuba lasmin, Ph.D., PE / Environmental Engineering Manager | September 2, 2022 |

| Summary of Review  |
|--|
| 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 <i>Pennsylvania Bulletin</i> at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge. |
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|  |

| scharge, Receiving   | g Waters and Water Supply Info                             | ormation  |  |  |  |
|--|--|---|--|--|--|
| <del></del>  | 7' 34"  Keesport  otion: Sewage Effluent                   | Design Flow (MGD) Longitude Quad Code   | .035<br>-79° 47' 49"<br>1607                   |  |  |
| Receiving Waters NHD Com ID Drainage Area Q <sub>7-10</sub> Flow (cfs) Elevation (ft) Watershed No. Existing Use Exceptions to Use Assessment Status Cause(s) of Impairn | ment   | Stream Code RMI Yield (cfs/mi²) Q <sub>7-10</sub> Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria | 37456 8.67 0.293 US Army Corp of Engineers WWF |  |  |
| Source(s) of Impairs TMDL Status   | ment   | Name  |  |  |  |
| Background/Ambier<br>pH (SU)<br>Temperature (°F)<br>Hardness (mg/L)  | nt Data  | Data Source   |  |  |  |
| PWS WatersY  | m Public Water Supply Intake<br>Youghiogheny River<br>1.38 | West County Municipal Autho Flow at Intake (MGD) Distance from Outfall (mi)   | ority-McKeesport  12 7.29                      |  |  |

Changes Since Last Permit Issuance: New permit.

## **Treatment Facility Summary**

Treatment Facility Name: Rolling Hills Village MHP STP

| WQM Permit No. | Issuance Date    |
|----------------|------------------|
| 0278405        | February 2, 1989 |
|                |                  |

| Waste Type               | Degree of<br>Treatment        | Process Type     | Disinfection        | Avg Annual<br>Flow (MGD)  |
|--------------------------|-------------------------------|------------------|---------------------|---------------------------|
| Sewage                   | Secondary                     | Activated Sludge | Hypochlorite        | 0.035                     |
|                          |                               |                  |                     |                           |
|                          |                               |                  |                     |                           |
| Hydraulic Capacity (MGD) | Organic Capacity<br>(lbs/day) | Load Status      | Biosolids Treatment | Biosolids<br>Use/Disposal |

Changes Since Last Permit Issuance: None

Other Comments: None

# **Compliance History**

The permit is being processed as a new permit; therefore, the compliance history of the previous owner is not applicable.

|             |              | Develop         | ment of Effluent Limitations |              |  |
|-------------|--------------|-----------------|------------------------------|--------------|--|
| Outfall No. | 001          |                 | Design Flow (MGD)            | .035         |  |
| Latitude    | 40° 17' 34"  |                 | Longitude                    | -79° 47' 49" |  |
| Wastewater  | Description: | Sewage Effluent | ·                            |              |  |

#### **Technology-Based Limitations (TBELs)**

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

| Pollutant  | Limit (mg/l)    | SBC             | Federal Regulation | State Regulation |
|--|-----------------|-----------------|--------------------|------------------|
| CPOD-  | 25              | Average Monthly | 133.102(a)(4)(i)   | 92a.47(a)(1)     |
| CBOD5         25           40         30           Solids         45 |                 | Average Weekly  | 133.102(a)(4)(ii)  | 92a.47(a)(2)     |
| Total Suspended  | 30              | Average Monthly | 133.102(b)(1)      | 92a.47(a)(1)     |
| Solids   | 45              | Average Weekly  | 133.102(b)(2)      | 92a.47(a)(2)     |
| pН   | 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)     |

This permit was last issued in 2001 and there have been numerous updates to the guidance and water quality criteria since that time.

#### Water Quality-Based Limitations (WQBELs)

Pursuant to EPA's approval of Pennsylvania's 2017 Triennial Review of Water Quality Standards and corresponding regulatory changes published in the *Pennsylvania Bulletin* on July 11, 2020, new water quality criteria for ammonianitrogen apply to waters of the commonwealth. Therefore, the WQBELs for Outfall 001 are being re-evaluated even though there have been no changes to the STP.

The effluent was modeled using WQM 7.0 to evaluate the CBOD₅, ammonia-nitrogen, and Dissolved Oxygen (DO) parameters. Modeling confirmed that technology based effluent limitations for CBOD₅, ammonia-nitrogen, and DO are adequate to meet in-stream water quality criterion.

WQM 7.0 output files are provided in Attachment A.

Total Residual Chlorine (TRC) was modeled with the TRC Spreadsheet, and it was determined that Best Available Technology (BAT) TRC limits are appropriate to meet in-stream water quality criterion.

Due to a lack of eDMR data, the facility will initially receive the BAT limits that were in effect prior to October 10, 2010. Following a six-month compliance period, the facility will have the best available technology limits that are in accordance with PA Code Section 92a.48(b)(2).

The compliance schedule end date is based on a proposed estimated timeline provided by the facility's design engineer which is provided in Attachment D.

#### NPDES Permit Fact Sheet Rolling Hills Village MHP STP

A DO minimum limitation of 4.0 mg/L will be implemented based on the standard in PA Code Chapter 93 and best professional judgement.

### **Additional Considerations**

Pursuant to EPA's approval of Pennsylvania's 2017 Triennial Review of Water Quality Standards and corresponding regulatory changes published in the *Pennsylvania Bulletin* on July 11, 2020, sewage discharges will include monitoring, at a minimum for *E. coli*, in new and reissued permits, with a monitoring frequency of 1/year for design flows of 0.002-0.05 MGD.

For pH, DO, and TRC, a monitoring frequency of 1/day has been imposed. In general, less frequent monitoring may be established only when the permittee demonstrates that there will be no discharge on days where monitoring is not required.

Annual sampling for nitrogen and phosphorus will be imposed per 25 PA Code §92a.61.

Monitoring frequency for the proposed effluent limits were based on Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Department's Technical Guidance for the Development and Specification of Effluent Limitations.

## **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" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Six Months Following Permit Issuance through Permit Expiration Date.

| Parameter | Effluent Limitations |                   |         |                    |             |                     |                          | quirements     |
|-----------|----------------------|-------------------|---------|--------------------|-------------|---------------------|--------------------------|----------------|
| Parameter | Mass Units           | (lbs/day) (1)     |         | Concentrat         | ions (mg/L) |                     | Minimum (2)              | Required       |
| Farameter | Average<br>Monthly   | Average<br>Weekly | Minimum | Average<br>Monthly | Maximum     | Instant.<br>Maximum | Measurement<br>Frequency | Sample<br>Type |
| TRC       | XXX                  | XXX               | XXX     | 0.5                | XXX         | 1.6                 | 1/day                    | Grab           |

Compliance Sampling Location: Outfall #001

## **Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect technology based effluent limits that are or were in effect at the time the last permit was issued. 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" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Six Months Following Permit Issuance.

| Parameter TRC | Effluent Limitations |                   |         |                    |             |                     |                          | quirements     |
|---------------|----------------------|-------------------|---------|--------------------|-------------|---------------------|--------------------------|----------------|
| Parameter     | Mass Units           | (lbs/day) (1)     |         | Concentrat         | ions (mg/L) |                     | Minimum <sup>(2)</sup>   | Required       |
| raiametei     | Average<br>Monthly   | Average<br>Weekly | Minimum | Average<br>Monthly | Maximum     | Instant.<br>Maximum | Measurement<br>Frequency | Sample<br>Type |
| TRC           | XXX                  | XXX               | XXX     | 1.4                | XXX         | 3.3                 | 1/day                    | Grab           |

Compliance Sampling Location: Outfall #001

## **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" (362-0400-001), SOPs and/or BPJ.

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

|   |                    |                          | Effluent L      | imitations          |                        |                     | Monitoring Red           | quirements     |
|---|--------------------|--------------------------|-----------------|---------------------|------------------------|---------------------|--------------------------|----------------|
| Parameter                                     | Mass Units         | (lbs/day) <sup>(1)</sup> |                 | Concentrat          | Minimum <sup>(2)</sup> | Required            |                          |                |
| raiametei                                     | Average<br>Monthly | Average<br>Weekly        | Minimum         | Average<br>Monthly  | Maximum                | Instant.<br>Maximum | Measurement<br>Frequency | Sample<br>Type |
| Flow (MGD)                                    | Report             | XXX                      | XXX             | XXX                 | XXX                    | XXX                 | 1/week                   | Measured       |
| pH (S.U.)                                     | XXX                | XXX                      | 6.0<br>Inst Min | XXX                 | XXX                    | 9.0                 | 1/day                    | Grab           |
| DO  | XXX                | XXX                      | 4.0<br>Inst Min | XXX                 | XXX                    | XXX                 | 1/day                    | Grab           |
| TSS   | XXX                | XXX                      | XXX             | 30.0                | XXX                    | 60.0                | 2/month                  | Grab           |
| Fecal Coliform (No./100 ml) Oct 1 - Apr 30    | XXX                | XXX                      | XXX             | 2000<br>Geo Mean    | XXX                    | 10000               | 2/month                  | Grab           |
| Fecal Coliform (No./100 ml)<br>May 1 - Sep 30 | XXX                | XXX                      | XXX             | 200<br>Geo Mean     | XXX                    | 1000                | 2/month                  | Grab           |
| E. Coli (No./100 ml)                          | XXX                | XXX                      | XXX             | XXX                 | XXX                    | Report              | 1/year                   | Grab           |
| Total Nitrogen                                | XXX                | XXX                      | XXX             | Report<br>Daily Max | XXX                    | XXX                 | 1/year                   | Grab           |
| Total Phosphorus                              | XXX                | XXX                      | XXX             | Report<br>Daily Max | XXX                    | XXX                 | 1/year                   | Grab           |
| CBOD <sub>5</sub>                             | XXX                | XXX                      | XXX             | 25.0                | XXX                    | 50.0                | 2/month                  | Grab           |
| Ammonia-Nitrogen<br>Nov 1 - Apr 30            | XXX                | XXX                      | XXX             | Report              | XXX                    | Report              | 2/month                  | Grab           |
| Ammonia-Nitrogen<br>May 1 - Oct 31            | XXX                | XXX                      | XXX             | 25.0                | XXX                    | 50.0                | 2/month                  | Grab           |

Compliance Sampling Location: Outfall #001

# ATTACHMENT A

WQM 7.0 Modeling Results

# Summer

## Input Data WQM 7.0

|                          | SWP<br>Basin |                      |                        | Stre                    | eam Name                |             | RMI                               |              | evation<br>(ft) | Drainage<br>Area<br>(sq mi)   | Slope<br>(ft/ft) | Withd        | VS<br>Irawal<br>gd) | Apply<br>FC |
|--------------------------|--------------|----------------------|------------------------|-------------------------|-------------------------|-------------|-----------------------------------|--------------|-----------------|-------------------------------|------------------|--------------|---------------------|-------------|
|                          | 19D          | 374                  | 456 YOUG               | HIOGHE                  | NY RIVER                |             | 8.67                              | 70           | 740.00          | 1740.00                       | 0.0000           | 0            | 0.00                | <b>~</b>    |
|                          |              |                      |                        |                         | St                      | ream Da     | ta                                |              |                 |                               |                  |              |                     |             |
| Design                   | LFY          | Trib<br>Flow         | Stream<br>Flow         | Rch<br>Trav<br>Time     | Rch<br>Velocity         | WD<br>Ratio | Rch<br>Width                      | Rch<br>Depth |                 | Tributary<br>np pH            | Te               | Strear<br>mp | n<br>pH             |             |
| Cond.                    | (cfsm)       | (cfs)                | (cfs)                  | (days)                  | (fps)                   |             | (ft)                              | (ft)         | (°C             | )                             | (°               | C)           |                     |             |
| Q7-10<br>Q1-10<br>Q30-10 | 0.293        | 0.00<br>0.00<br>0.00 | 510.00<br>0.00<br>0.00 | 0.000<br>0.000<br>0.000 | 0.000<br>0.000<br>0.000 | 10.0        | 0.00                              | 0.0          | 00 2            | 5.00 7.                       | 00               | 0.00         | 0.00                |             |
|                          |              |                      |                        |                         | Di                      | ischarge    | Data                              |              |                 |                               |                  |              | 1                   |             |
|                          |              |                      | Name                   | Per                     | mit Number              | Disc        | Permitto<br>Disc<br>Flow<br>(mgd) | Dis<br>Flo   | sc Res          | Di<br>serve Te<br>sctor<br>(° | mp               | Disc<br>pH   |                     |             |
|                          |              | Rollin               | ng Hills M             | PA                      | 0025416                 | 0.000       | 0.035                             | 50 0.0       | 0000            | 0.000                         | 25.00            | 7.00         |                     |             |
|                          |              |                      |                        |                         | Pa                      | arameter    | Data                              |              |                 |                               |                  |              |                     |             |
|                          |              |                      |                        | Paramete                | r Name                  |             |                                   | Trib<br>Conc | Stream<br>Conc  | Fate<br>Coef                  |                  |              |                     |             |
|                          |              |                      |                        |                         |                         | (n          | ng/L) (n                          | ng/L)        | (mg/L)          | (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

|                          |              |                      |                |                         | inp             | ut Dat      | a wQi                           | VI 7.0       |                 |                              |                  |                        |      |            |
|--------------------------|--------------|----------------------|----------------|-------------------------|-----------------|-------------|---------------------------------|--------------|-----------------|------------------------------|------------------|------------------------|------|------------|
|                          | SWP<br>Basir |                      |                | Stre                    | eam Name        |             | RMI                             | El           | evation<br>(ft) | Drainage<br>Area<br>(sq mi)  | Slope<br>(ft/ft) | PWS<br>Withdra<br>(mgd | wal  | Appl<br>FC |
|                          | 19D          | 374                  | 456 YOUG       | HIOGHE                  | NY RIVER        |             | 0.0                             | 10           | 719.00          | 1760.00                      | 0.00000          |                        | 0.00 | <b>v</b>   |
|                          |              |                      |                |                         | St              | ream Da     | ta                              |              |                 |                              |                  |                        |      |            |
| Design                   | LFY          | Trib<br>Flow         | Stream<br>Flow | Rch<br>Trav<br>Time     | Rch<br>Velocity | WD<br>Ratio | Rch<br>Width                    | Rch<br>Dept  |                 | <u>Tributary</u><br>p pH     | Ten              | Stream<br>p            | рН   |            |
| Cond.                    | (cfsm)       | (cfs)                | (cfs)          | (days)                  | (fps)           |             | (ft)                            | (ft)         | (°C             | )                            | (°C              | )                      |      |            |
| Q7-10<br>Q1-10<br>Q30-10 | 0.293        | 0.00<br>0.00<br>0.00 | 0.00           | 0.000<br>0.000<br>0.000 | 0.000           | 10.0        | 0.00                            | 0.           | 00 2            | 5.00 7.0                     | 00               | 0.00                   | 0.00 |            |
|                          |              |                      |                |                         | Di              | scharge     | Data                            |              |                 |                              |                  |                        |      |            |
|                          |              |                      | Name           | Per                     | mit Number      | Disc        | Permitt<br>Disc<br>Flow<br>(mgd | Di           | sc Res          | Dis-<br>erve Tem<br>ctor (°C | ip p             | sc<br>H                |      |            |
|                          |              |                      |                |                         |                 | 0.000       | 0.00                            | 00 0.        | 0000            | 0.000 2                      | 5.00             | 7.00                   |      |            |
|                          |              |                      |                |                         | Pa              | arameter    | Data                            |              |                 |                              |                  |                        |      |            |
|                          |              |                      |                | Paramete                | r Namo          |             |                                 | Trib<br>Conc | Stream<br>Conc  | Fate<br>Coef                 |                  |                        |      |            |
|                          |              |                      |                | aramete                 | i ivalle        | (n          | ng/L) (I                        | mg/L)        | (mg/L)          | (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

|               | SW                      | /P Basin<br>19D      |                                | m Code<br>7456                    |                           |               |            | Stream<br>SHIOGH | Name<br>ENY RIVI  | ER                              |                          |                |
|---------------|-------------------------|----------------------|--------------------------------|-----------------------------------|---------------------------|---------------|------------|------------------|-------------------|---------------------------------|--------------------------|----------------|
| RMI           | Stream<br>Flow<br>(cfs) | PWS<br>With<br>(cfs) | Net<br>Stream<br>Flow<br>(cfs) | Disc<br>Analysis<br>Flow<br>(cfs) | Reach<br>Slope<br>(ft/ft) | Depth<br>(ft) | Width (ft) | W/D<br>Ratio     | Velocity<br>(fps) | Reach<br>Trav<br>Time<br>(days) | Analysis<br>Temp<br>(°C) | Analysis<br>pH |
| Q7-1<br>8.670 | 0 Flow<br>510.00        | 0.00                 | 510.00                         | .0541                             | 0.00046                   | 1.141         | 396.34     | 347.4            | 1.13              | 0.469                           | 25.00                    | 7.00           |
| -, -          | 0 Flow<br>326.40        | 0.00                 | 326.40                         | .0541                             | 0.00046                   | NA            | NA         | NA               | 0.88              | 0.602                           | 25.00                    | 7.00           |
| -,            | 10 Flov<br>693.60       | v<br>0.00            | 693.60                         | .0541                             | 0.00046                   | NA            | NA         | NA               | 1.34              | 0.395                           | 25.00                    | 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               | <b>~</b> |
| D.O. Saturation    | 90.00% | Use Balanced Technology             | <b>~</b> |
| D.O. Goal          | 5      |                                     |          |

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# WQM 7.0 Wasteload Allocations

|          | SWP Basin 9       | 37456                     | ode .                    |                           | YOU                             | <u>Stream</u><br>GHIOGH | <u>Name</u><br>ENY RIV  | ER .              |                      |                      |
|----------|-------------------|---------------------------|--------------------------|---------------------------|---------------------------------|-------------------------|-------------------------|-------------------|----------------------|----------------------|
| NH3-N    | Acute Allocat     | ions                      |                          |                           |                                 |                         |                         |                   |                      |                      |
| RMI      | Discharge Na      | me Crit                   | eline<br>terion<br>ng/L) | Baseline<br>WLA<br>(mg/L) | Multiple<br>Criterio<br>(mg/L)  | n V                     | ultiple<br>VLA<br>ng/L) | Critical<br>Reach | Percent<br>Reductio  | n                    |
| 8.67     | 0 Rolling Hills M |                           | 11.07                    | 50                        | 11.                             | 07                      | 50                      | 0                 | 0                    | _                    |
| NH3-N    | Chronic Alloc     | ations                    |                          |                           |                                 |                         |                         |                   |                      | _                    |
| RMI      | Discharge Nan     | Basel<br>ne Criter<br>(mg | rion                     | aseline<br>WLA<br>(mg/L)  | Multiple<br>Criterion<br>(mg/L) | Mult<br>Wi<br>(mg       | ĹA                      | Critical<br>Reach | Percent<br>Reduction |                      |
| 8.67     | 0 Rolling Hills M |                           | 1.37                     | 25                        | 1.                              | 37                      | 25                      | 0                 | 0                    | -                    |
| Dissolve | ed Oxygen Al      | location                  | ns                       |                           |                                 |                         |                         |                   |                      | _                    |
| RMI      | Discharge         | Name                      |                          | OD5<br>Multiple<br>(mg/L) | NH3<br>Baseline<br>(mg/L)       | _                       |                         |                   | Critical             | Percent<br>Reduction |
| 8.6      | 7 Rolling Hills M |                           | 25                       | 25                        | 25                              | 25                      | 4                       | 4                 | 0                    | 0                    |

# WQM 7.0 D.O.Simulation

| SWP Basin<br>19D        | Stream Code<br>37456 |                 | YOU             | Stream Name<br>GHIOGHENY RIV | ER                                    |
|-------------------------|----------------------|-----------------|-----------------|------------------------------|---------------------------------------|
| RMI                     | Total Discharge      | Flow (mgd       | i) Ana          | ysis Temperature             | (°C) Analysis pH                      |
| 8.670                   | 0.03                 | 5               |                 | 25.000                       | 7.000                                 |
| Reach Width (ft)        | Reach De             | pth (ft)        |                 | Reach WDRatio                | Reach Velocity (fps)                  |
| 396.339                 | 1.14                 | 1               |                 | 347.395                      | 1.128                                 |
| Reach CBOD5 (mg/L)      | Reach Ko             | (1/days)        | R               | each NH3-N (mg/L             | <ul> <li>Reach Kn (1/days)</li> </ul> |
| 2.00                    | 0.00                 |                 |                 | 0.00                         | 1.029                                 |
| Reach DO (mg/L)         | Reach Kr             |                 |                 | Kr Equation                  | Reach DO Goal (mg/L)                  |
| 8.243                   | 2.72                 | 1               |                 | Tsivoglou                    | 5                                     |
| Reach Travel Time (days | )                    | Subreach        | Results         |                              |                                       |
| 0.469                   | TravTime<br>(days)   | CBOD5<br>(mg/L) | NH3-N<br>(mg/L) | D.O.<br>(mg/L)               |                                       |
|                         | 0.047                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.094                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.141                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.188                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.235                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.282                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.328                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.375                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.422                | 2.00            | 0.00            | 7.54                         |                                       |
|                         | 0.469                | 2.00            | 0.00            | 7.54                         |                                       |

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# WQM 7.0 Effluent Limits

|       | SWP Basin<br>19D | Stream Code<br>37456 |                       | Stream Name<br>YOUGHIOGHENY | _                                    |                                  |                                  |
|-------|------------------|----------------------|-----------------------|-----------------------------|--------------------------------------|----------------------------------|----------------------------------|
| RMI   | Name             | Permit<br>Number     | Disc<br>Flow<br>(mgd) | Parameter                   | Effl. Limit<br>30-day Ave.<br>(mg/L) | Effl. Limit<br>Maximum<br>(mg/L) | Effl. Limit<br>Minimum<br>(mg/L) |
| 8.670 | Rolling Hills I  | M PA0025416          | 0.000                 | CBOD5                       | 25                                   |                                  |                                  |
|       |                  |                      |                       | NH3-N                       | 25                                   | 50                               |                                  |
|       |                  |                      |                       | Dissolved Oxygen            |                                      |                                  | 4                                |
|       |                  |                      |                       | Dissolved Oxygen            |                                      |                                  | •                                |

# Winter

## Input Data WQM 7.0

|                          | SWP<br>Basin |                      |                         | Stre                    | eam Name                |             | RMI                               |              | evation<br>(ft) | Drainage<br>Area<br>(sq mi)    | Slope<br>(ft/ft) | PW<br>Withda<br>(mg | awa  | Apply<br>FC |
|--------------------------|--------------|----------------------|-------------------------|-------------------------|-------------------------|-------------|-----------------------------------|--------------|-----------------|--------------------------------|------------------|---------------------|------|-------------|
|                          | 19D          | 374                  | 156 YOUG                | HIOGHE                  | NY RIVER                |             | 8.67                              | 70           | 740.00          | 1740.00                        | 0.00000          | )                   | 0.00 | ✓           |
|                          |              |                      |                         |                         | St                      | ream Dat    | a                                 |              |                 |                                |                  |                     |      |             |
| Design<br>Cond.          | LFY          | Trib<br>Flow         | Stream<br>Flow          | Rch<br>Trav<br>Time     | Rch<br>Velocity         | WD<br>Ratio | Rch<br>Width                      | Rch<br>Depth |                 | <u>Tributary</u><br>p pH       | Ter              | Stream<br>mp        | pH   |             |
| Cond.                    | (cfsm)       | (cfs)                | (cfs)                   | (days)                  | (fps)                   |             | (ft)                              | (ft)         | O°)             | )                              | (°(              | C)                  |      |             |
| Q7-10<br>Q1-10<br>Q30-10 | 0.586        | 0.00<br>0.00<br>0.00 | 1020.00<br>0.00<br>0.00 | 0.000<br>0.000<br>0.000 | 0.000<br>0.000<br>0.000 | 10.0        | 0.00                              | 0.0          | 00 2            | 5.00 7.                        | 00               | 0.00                | 0.00 |             |
|                          |              |                      |                         |                         | Di                      | scharge     | Data                              |              |                 |                                |                  |                     |      |             |
|                          |              |                      | Name                    | Per                     | mit Number              | Disc        | Permitte<br>Disc<br>Flow<br>(mgd) | Dis<br>Flo   | sc Res<br>ow Fa | Di:<br>erve Ter<br>ctor<br>(°( | mp               | )isc<br>pH          |      |             |
|                          |              | Rollin               | g Hills M               | PA                      | 0025416                 | 0.000       | 0.035                             | 50 0.0       | 0000            | 0.000                          | 25.00            | 7.00                |      |             |
|                          |              |                      |                         |                         | Pa                      | arameter    | Data                              |              |                 |                                |                  |                     |      |             |
|                          |              |                      |                         | Paramete                | r Name                  |             |                                   | Trib<br>Conc | Stream<br>Conc  | Fate<br>Coef                   |                  |                     |      |             |
|                          |              |                      |                         |                         |                         | (m          | ng/L) (n                          | ng/L)        | (mg/L)          | (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<br>Basin |                      |                         | Stre                    | eam Name                |             | RMI                               |              | vation<br>(ft) | Drainage<br>Area<br>(sq mi)    | Slope<br>(ft/ft) | PW<br>Withda<br>(mg | rawal | Apply<br>FC |
|--------------------------|--------------|----------------------|-------------------------|-------------------------|-------------------------|-------------|-----------------------------------|--------------|----------------|--------------------------------|------------------|---------------------|-------|-------------|
|                          | 19D          | 374                  | 456 YOUG                | HIOGHE                  | NY RIVER                |             | 0.01                              | 10           | 719.00         | 1760.00                        | 0.00000          |                     | 0.00  | ✓           |
|                          |              |                      |                         |                         | St                      | ream Dat    | a                                 |              |                |                                |                  |                     |       |             |
| Design<br>Cond.          | LFY          | Trib<br>Flow         | Stream<br>Flow          | Rch<br>Trav<br>Time     | Rch<br>Velocity         | WD<br>Ratio | Rch<br>Width                      | Rch<br>Depth |                | <u>Tributary</u><br>p pH       | Ten              | <u>Stream</u><br>np | pH    |             |
| Cond.                    | (cfsm)       | (cfs)                | (cfs)                   | (days)                  | (fps)                   |             | (ft)                              | (ft)         | (°C)           | )                              | (°C              | <b>(</b> )          |       |             |
| Q7-10<br>Q1-10<br>Q30-10 | 0.586        | 0.00<br>0.00<br>0.00 | 1031.36<br>0.00<br>0.00 | 0.000<br>0.000<br>0.000 | 0.000<br>0.000<br>0.000 | 10.0        | 0.00                              | 0.0          | 0 2            | 5.00 7.0                       | 00               | 0.00                | 0.00  |             |
|                          |              |                      |                         |                         | Di                      | scharge (   | Data                              |              |                |                                |                  |                     |       |             |
|                          |              |                      | Name                    | Per                     | mit Number              | Disc        | Permitte<br>Disc<br>Flow<br>(mgd) | Dis<br>Flo   | c Res          | Dis<br>erve Tem<br>ctor<br>(°C | np p             | isc<br>oH           |       |             |
|                          |              |                      |                         |                         |                         | 0.000       | 0.000                             | 0.0          | 000 (          | 0.000 2                        | 5.00             | 7.00                |       |             |
|                          |              |                      |                         |                         | Pa                      | arameter (  |                                   |              |                |                                |                  |                     |       |             |
|                          |              |                      |                         | <sup>o</sup> aramete    | r Name                  |             |                                   | Trib<br>Conc | Stream<br>Conc | Fate<br>Coef                   |                  |                     |       |             |
|                          |              |                      |                         |                         |                         | (m          | g/L) (n                           | ng/L)        | (mg/L)         | (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

|       | SW                      | P Basin<br>19D       |                                | m Code<br>7456                    |                           |               | YOU        | Stream<br>GHIOGHI | Name<br>ENY RIVI  | ER                              |                          |                |  |
|-------|-------------------------|----------------------|--------------------------------|-----------------------------------|---------------------------|---------------|------------|-------------------|-------------------|---------------------------------|--------------------------|----------------|--|
| RMI   | Stream<br>Flow<br>(cfs) | PWS<br>With<br>(cfs) | Net<br>Stream<br>Flow<br>(cfs) | Disc<br>Analysis<br>Flow<br>(cfs) | Reach<br>Slope<br>(ft/ft) | Depth<br>(ft) | Width (ft) | W/D<br>Ratio      | Velocity<br>(fps) | Reach<br>Trav<br>Time<br>(days) | Analysis<br>Temp<br>(°C) | Analysis<br>pH |  |
|       | 0 Flow<br>1020.00       | 0.00                 | 1020.00                        | .0541                             | 0.00046                   | 1.059         | 579.14     | 546.78            | 1.66              | 0.318                           | 25.00                    | 7.00           |  |
| 8.670 | 0 Flow<br>652.80        | 0.00                 | 652.80                         | .0541                             | 0.00046                   | NA            | NA         | NA                | 1.30              | 0.409                           | 25.00                    | 7.00           |  |
|       | 10 Flow<br>1387.20      |                      | 1387.20                        | .0541                             | 0.00046                   | NA            | NA         | NA                | 1.98              | 0.268                           | 25.00                    | 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               | <b>~</b> |
| D.O. Saturation    | 90.00% | Use Balanced Technology             | <b>~</b> |
| D.O. Goal          | 5      |                                     |          |

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# WQM 7.0 Wasteload Allocations

| -       |                   | Stream Code                        |                                      | _                               | ream Name                 |                                       |                      |                      |
|---------|-------------------|------------------------------------|--------------------------------------|---------------------------------|---------------------------|---------------------------------------|----------------------|----------------------|
|         | 19D               | 37456                              |                                      | YOUGH                           | IOGHENY RIV               | /ER                                   |                      |                      |
| NH3-N A | Acute Alloca      | tions                              |                                      |                                 |                           |                                       |                      |                      |
| RMI     | Discharge N       | Baseline<br>Criterion<br>(mg/L)    | Baseline<br>WLA<br>(mg/L)            | Multiple<br>Criterion<br>(mg/L) | Multiple<br>WLA<br>(mg/L) | Critical<br>Reach                     | Percent<br>Reduction | 1                    |
| 8.67    | 0 Rolling Hills M | 11.07                              | 7 50                                 | 11.07                           | 50                        | 0                                     | 0                    | -                    |
| NH3-N   | Chronic Allo      |                                    |                                      |                                 |                           |                                       |                      | -                    |
| RMI     | Discharge Nar     | Baseline<br>me Criterion<br>(mg/L) | Baseline<br>WLA<br>(mg/L)            | Multiple<br>Criterion<br>(mg/L) | Multiple<br>WLA<br>(mg/L) | Critical<br>Reach                     | Percent<br>Reduction |                      |
| 8.67    | 0 Rolling Hills M | 1.37                               | 25                                   | 1.37                            | 25                        | 0                                     | 0                    | -                    |
| issolve | d Oxygen A        | llocations                         |                                      |                                 |                           |                                       |                      | -                    |
| RMI     | Discharge         |                                    | CBOD5<br>line Multiple<br>'L) (mg/L) |                                 |                           | ved Oxygen<br>ne Multiple<br>) (mg/L) | Critical             | Percent<br>Reduction |
|         | 7 Rolling Hills M |                                    | 25 25                                | 25                              | 25 4                      | 4                                     | 0                    | 0                    |

# WQM 7.0 D.O.Simulation

| SWP Basin<br>19D        | Stream Code<br>37456 |                 | YOU             | Stream Name<br>GHIOGHENY RIV | VER                                    |            |
|-------------------------|----------------------|-----------------|-----------------|------------------------------|--|------------|
| <u>RMI</u>              | Total Discharge      | Flow (mgd       | i) Ana          | ysis Temperature             | e (°C) Analysis pH                     |            |
| 8.670                   | 0.03                 | 5               |                 | 25.000                       | 7.000                                  |            |
| Reach Width (ft)        | Reach De             | epth (ft)       |                 | Reach WDRatio                | Reach Velocity (fp:                    | 5)         |
| 579.139                 | 1.05                 | 9               |                 | 546.781                      | 1.663                                  |            |
| Reach CBOD5 (mg/L)      | Reach Kc             | (1/days)        | R               | each NH3-N (mg/              | <ul><li>/L) Reach Kn (1/days</li></ul> | )          |
| 2.00                    | 0.00                 |                 |                 | 0.00                         | 1.029                                  |            |
| Reach DO (mg/L)         | Reach Kr             |                 |                 | Kr Equation                  | Reach DO Goal (mg                      | <u>/L)</u> |
| 8.243                   | 4.01                 | 1               |                 | Tsivoglou                    | 5                                      |            |
| Reach Travel Time (days | )                    | Subreach        | Results         |                              |  |            |
| 0.318                   | TravTime<br>(days)   | CBOD5<br>(mg/L) | NH3-N<br>(mg/L) | D.O.<br>(mg/L)               |  |            |
|                         | 0.032                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.064                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.095                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.127                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.159                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.191                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.223                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.255                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.286                | 2.00            | 0.00            | 7.54                         |  |            |
|                         | 0.318                | 2.00            | 0.00            | 7.54                         |  |            |

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# WQM 7.0 Effluent Limits

|       | SWP Basin Str<br>19D | 37456            |                       | Stream Name<br>YOUGHIOGHENY | -                                    |                                  |                                  |
|-------|----------------------|------------------|-----------------------|-----------------------------|--------------------------------------|----------------------------------|----------------------------------|
| RMI   | Name                 | Permit<br>Number | Disc<br>Flow<br>(mgd) | Parameter                   | Effl. Limit<br>30-day Ave.<br>(mg/L) | Effl. Limit<br>Maximum<br>(mg/L) | Effl. Limit<br>Minimum<br>(mg/L) |
| 8.670 | Rolling Hills M      | PA0025416        | 0.000                 | CBOD5                       | 25                                   |                                  |                                  |
|       |                      |                  |                       | NH3-N                       | 25                                   | 50                               |                                  |
|       |                      |                  |                       | Dissolved Oxygen            |                                      |                                  | 4                                |

# ATTACHMENT B TRC Modeling Results

| TRC EVALUATION  |  |                           |                                      |                          |                     |  |
|---|--|---------------------------|--------------------------------------|--------------------------|---------------------|--|
| Input appropria   | te values in   | A3:A9 and D3:D9           |                                      |                          |                     |  |
| 510   | = Q stream (   | cfs)                      | 0.5                                  | = CV Daily               |                     |  |
| 0.035 = Q dischar   |  | e (MGD)                   | 0.5                                  | = CV Hourly              |                     |  |
| 30  | = no. sample   | s                         | 1                                    | = AFC_Partial Mix Factor |                     |  |
| 0.3   | = Chlorine D   | emand of Stream           | 1                                    | = CFC_Partial Mix Factor |                     |  |
| 0   | emand of Discharge   | 15                        | = AFC_Criteria                       | Compliance Time (min)    |                     |  |
| 0.5   | alue   | 720                       | = CFC_Criteria Compliance Time (min) |                          |                     |  |
| 0 = % Factor of Safety (FOS) =Decay Coefficient (K)             |  |                           | ent (K)                              |                          |                     |  |
|   |  |                           | CFC Calculations                     |                          |                     |  |
| TRC   | 1.3.2.iii  | WLA afc =                 | 3004.729                             | 1.3.2.iii                | WLA cfc = 2929.367  |  |
| PENTOXSD TRG  | 5.1a   | LTAMULT afc =             | 0.373                                | 5.1c                     | LTAMULT cfc = 0.581 |  |
| PENTOXSD TRG  | D TRG 5.1b LTA_afc= 1119.634 5.1d LTA_efc = 17   |                           | LTA_cfc = 1702.997                   |                          |                     |  |
| Source  |  | Effluer                   | nt Limit Calcul                      | ations                   |                     |  |
| PENTOXSD TRG  | PENTOXSD TRG 5.1f AML MULT = 1.231   |                           |                                      |                          |                     |  |
| PENTOXSD TRG  | SD TRG 5.1g AVG MON LIMIT (mg/l) = 0.500 BAT/BPJ   |                           |                                      | 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)) |  |                           |                                      |                          |                     |  |
| LTAMULT afc   | + Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)<br>EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)                  |                           |                                      |                          |                     |  |
| LTA_afc   | EXP((0.5°LN(cvh^2+1))-2.325°LN(cvh^2+1)^0.5)<br>wla_afc*LTAMULT_afc                                    |                           |                                      |                          |                     |  |
| WLA_cfc   | A_cfc (.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc) )<br>+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100) |                           |                                      |                          |                     |  |
| LTAMULT_cfc   |  |                           |                                      |                          |                     |  |
| LTA_cfc   | wla_cfc*LTA  | MULT_cfc                  |                                      |                          |                     |  |
| AML MULT  |  | N((cvd^2/no_samples+1)^0. |                                      | ^2/no_samples+           | 1))                 |  |
| AVG MON LIMIT   | _  | J,MIN(LTA_afc,LTA_cfc)*AM | _                                    |                          |                     |  |
| INST MAX LIMIT  | 1.5*((av_mor   | _limit/AML_MULT)/LTAMUL   | T_afc)                               |                          |                     |  |
|   |  |                           |                                      |                          |                     |  |

# ATTACHMENT C USGS Stream Stats Output

Discharge Point

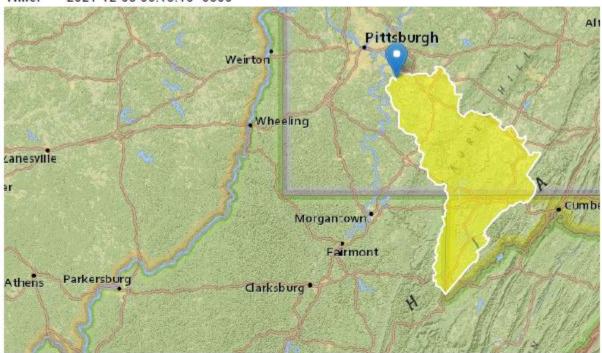
# StreamStats Report

Region ID: PA

Workspace ID: PA20211208111748032000

Clicked Point (Latitude, Longitude): 40.29370, -79.79778

Time: 2021-12-08 06:18:10 -0500



| Parameter Code | Parameter Description                   | Value | Unit         |
|----------------|---|-------|--------------|
| DRNAREA        | Area that drains to a point on a stream | 1740  | square miles |
| ELEV           | Mean Basin Elevation                    | 2007  | feet         |

Low-Flow Statistics Flow Report [99.9 Percent (1740 square miles) Low Flow Region 4]

| Statistic               | Value | Unit   |
|-------------------------|-------|--------|
| 7 Day 2 Year Low Flow   | 212   | ft^3/s |
| 30 Day 2 Year Low Flow  | 298   | ft^3/s |
| 7 Day 10 Year Low Flow  | 109   | ft^3/s |
| 30 Day 10 Year Low Flow | 139   | ft^3/s |
| 90 Day 10 Year Low Flow | 223   | 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/)

Down Stream of Discharge

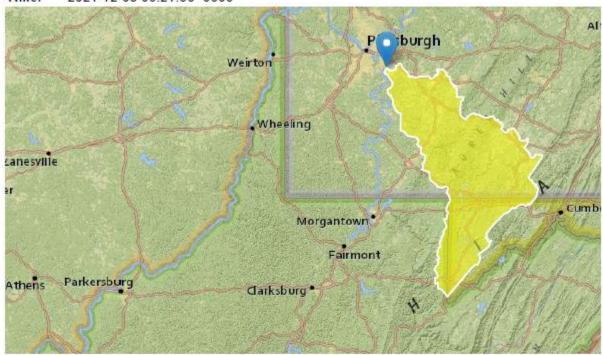
# StreamStats Report

Region ID: PA

Workspace ID: PA20211208112113463000

Clicked Point (Latitude, Longitude): 40.35384, -79.87035

Time: 2021-12-08 06:21:35 -0500



| Parameter Code | Parameter Description                   | Value | Unit         |
|----------------|---|-------|--------------|
| DRNAREA        | Area that drains to a point on a stream | 1760  | square miles |
| ELEV           | Mean Basin Elevation                    | 1993  | feet         |

# ATTACHMENT D Proposed Compliance Schedule

| Feasibility study completion         | 12/31/2022                    |
|--------------------------------------|-------------------------------|
| Final plan completion                | 12/31/2023                    |
| Start construction                   | 01/01/2024                    |
| Construction progress report(s)      | 02/02/2024 through 09/02/2024 |
| End construction                     | 10/01/2024                    |
| Compliance with effluent limitations | 12/31/2024                    |