

Poolesville Wastewater Capacity Report

Date of this Report: **January 11, 2023**

Municipal Wastewater Treatment Plant Name: **Poolesville WWTP**

Permit Issued to: **Commissioners of Poolesville**

County Where Plant is Located: **Montgomery**

NPDES Wastewater Discharge Permit Number: **MD0023001**

State Wastewater Discharge Permit Number: **12-DP-0781**

Facility Address: **18901 Fisher Avenue, Poolesville, Maryland 20837**

Name/Title of Individual Completing this Form: **Wade Yost, Town Manager**

Name/Title of Individual Certifying this Form: **James E. Brown, Commission President**

Questions

1. Rated/design flow: .750 MGD and current permitted flow: **0.750 MGD or 750,000 GPD.**
2. Annual average flow in MDG for each of the three (3) complete previous years:
2020 flow/MGD: 0.630; 2021 flow/MGD: 0.517; 2022 flow/MGD: 0.541.
3-year average = 0.563.
3. Gallons and EDUs to determine the flow contribution for building permits issued per structure:
325 GPD/EDU
4. Number of building permits currently approved but not connected to the WWTP: **2**
5. Total amount of additional flow in gallons represented approved building permits that have not been connected to date: **650 gpd.**
6. Potential flow when the flow from approved building permits not connected is added to the actual annual average plant flow in MGD for the last three (3) complete years: **0.564 MGD.**
7. Number of residential lots on approved record plats that have not applied for building permits and associated flow: **9 or 2,925 gpd.**
8. Number of commercial lots on approved record plats that have not applied for building permits and associated flow: **12,753 gpd.**
9. Three-year average annual flow: **0.563 MGD** (+) S1 building permits flow **0.0006 MGD** (+) prospective residential and commercial record plat flow **0.0157** (=) **0.579 MGD**
10. Were there any effluent violations, overflows, bypasses and causes reported to MDE (DMRs, Violation Notices and 5-Day Letters) associated with excessive flow at the WWTP and/or with the sewer system(s) that occurred during this reported period? **No**
11. Are there any planned WWTPs or sewer system upgrades, expansions or improvements decided on during this reporting period? **Yes**
12. Number of proposed future connections during this reporting period: **72**.

13. Amount of additional flow represented by proposed future connections described above: **0.023 MGD.**
14. Available treatment plant flow capacity remaining upon completion of proposed future connections described above: **0.148 MGD.**
15. Do flows from future connections and existing flow exceed flow? **No**
16. Are there any moratoriums or limitations on new building permit approvals currently in place? **No**
17. What is the “ultimate” flow capacity required if “build out” of the Town would occur based on the latest approved land use/zoning in the adopted master plan (as amended) for this reporting period? **650,000 GPD**

Wade Yost, Town Manager

James E. Brown, President
Commissioners of Poolsville

2022 Annual Inflow and Infiltration Report

Monthly Flow Data

Month	Precipitation	WWTP Average Flow	WWTP Flow MG/Month
January	4.13	0.659	20.436
February	2.46	0.600	16.808
March	1.75	0.516	16.006
April	3.15	0.587	17.597
May	6.85	0.660	20.469
June	4.11	0.504	15.124
July	4.29	0.428	13.279
August	4.27	0.420	13.034
Sept	6.49	0.502	15.056
Oct	2.74	0.482	14.491
Nov	3.05	0.461	13.841
Dec	5.84	0.673	20.851
Total	49.13	6.492	197.442
Average	4.094	0.541	16.454

Amount of I&I Flows Handled by the Plant

Calculation methodology for determining the amount of I&I utilized the average of the lowest month to establish a baseline of 13.034 MG/month.

Month	Total Monthly Flow - MG	Estimated I&I Flows Handled - MG
January	20.436	7.422
February	16.808	3.774
March	16.006	2.972
April	17.597	4.563
May	20.469	7.435
June	15.124	2.09
July	13.279	0.245
August	13.034	0
Sept	15.056	2.022
Oct	14.491	1.457
Nov	13.841	0.807
Dec	20.851	7.817
		Total: 40.604
		MGD Average: 3.384

2022 I&I Reduction Actions

The Town has received and are using the American Rescue funds to reline sewer pipes and rehab manholes in the oldest sections of Town.

2023 Planned Reduction Actions

The Town has identified several project areas for remediation and will continue the relining and manhole rehabilitation efforts.