

Poolesville Sewage Flow Capacity Report

Date of this Report: **January 13, 2020**

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: **Seth Rivard, Town Manager**

Name/Title of Individual Certifying this Form: **Jerome Klobukowski, 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:
2017 flow/MGD: 0.488; 2018 flow/MGD: 0.764; 2019 flow/MGD: 0.609.
3-year average = 0.620.
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: **12**
5. Total amount of additional flow in gallons represented approved building permits that have not been connected to date: **3,900 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: **0.624 MGD**
7. Number of residential lots on approved record plats that have not applied for building permits and associated flow: **106 or 34,450 gpd**
8. Number of commercial lots on approved record plats that have not applied for building permits and associated flow: **13,358 gpd**
9. Three-year average annual flow: **0.624 MGD** (+) S1 building permits flow **0.003900 MGD** (+) prospective residential and commercial record plat flow **0.0478** (=) **0.675 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: **6**
13. Amount of additional flow represented by proposed future connections described above: **0.00019**

14. Available treatment plant flow capacity remaining upon completion of proposed future connections described above: **0.075 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?
750,000 GPD

Seth Rivard, Town Manager

Jerome Kloubowski, President
Commissioners of Poolesville

2019 Annual Inflow and Infiltration Report

Monthly Flow Data

Month	Precipitation	WWTP Average Flow	WWTP Flow MG/Month
January	3.67	897,000	27.822
February	4.30	927,000	25.950
March	5.38	919,000	28.484
April	4.25	573,000	17.178
May	7.49	834,000	25.861
June	3.35	445,000	13.349
July	6.77	458,000	14.184
August	3.96	406,000	12.583
Sept	0.44	359,000	10.755
Oct	3.56	410,000	12.713
Nov	2.17	485,000	14.45
Dec	4.27	602,000	18.665
Total	49.61	7,315,000	221.994
Average		609,000	

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 10.755 MG/month.

Month	Total Monthly Flow - MG	Estimated I&I Flows Handled - MG
January	27.822	17.067
February	25.950	15.195
March	28.484	17.729
April	17.178	6.423
May	25.861	15.106
June	13.349	2.594
July	14.184	3.429
August	12.583	1.828
Sept	10.755	0
Oct	12.713	1.985
Nov	14.540	3.785
Dec	18.665	7.91
		Total: 93.051
		MGD Average: 0.254

2019 I&I Reduction Actions

The Town has deployed several flow monitoring recorders throughout the Town to identify high I&I areas. They continued with the lining of manholes that showed signs of leakages. The Town attempted

to hire a contractor to install connections from 6" laterals to 6" mains but the selected contractor was unable to perform.

2020 Planned Reduction Actions

Funding has been set aside for additional manhole rehabilitation and the relining of 6" terra cotta laterals to 6" mains in the Wesmond Subdivision. Bidding will be conducted this spring for this Project. If Manhole leakage is Identified this spring an additional round of lining will be placed out for bid this summer.