

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0050393
APS ID 1153868
Authorization ID 1554967

Applicant and Facility Information

Applicant Name	<u>Worcester Township Montgomery County</u>	Facility Name	<u>Worcester Township Valley Green STP</u>
Applicant Address	<u>1721 Valley Forge Road P O Box 767 Worcester, PA 19490-0767</u>	Facility Address	<u>Valley Forge Road & Defford Road Worcester, PA 19490</u>
Applicant Contact	<u>Dan DeMeno</u>	Facility Contact	<u>Dan Demeno</u>
Applicant Phone	<u>(610) 584-1410</u>	Facility Phone	<u>(610) 584-1410</u>
Client ID	<u>43063</u>	Site ID	<u>458764</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Worcester Township</u>
Connection Status		County	<u>Montgomery</u>
Date Application Received	<u>January 8, 2026</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>Permit renewal.</u>		

Summary of Review

The applicant requests a renewal of their NPDES permit to discharge 0.22 MGD of treated sewage from Valley Green STP into Zacharias Creek. The STP is a package type treatment plant with two separate trains. Plant consists influent pump station, comminution with bypass bar screens, flow equalization basins, extended aeration activated sludge process, secondary clarification, chemical flocculation chambers, settling chambers, gravity filtration and UV disinfection. Waste sludge to holding tank and then offsite for disposal at Warminster NAWC WWTP.

The effluent from the STP is generally in compliance with existing permit limits. Effluent limits for all the parameters will remain the same in this permit renewal, with the addition of quarterly E. Coli monitoring to be consistent with SOP No. BCW-PMT-033 Establishing Effluent Limitations for Individual Sewage Permits.

Following are the effluent limits:

Parameter	Effluent Limit (Av. mo. mg/l)	Basis
CBOD5	10	Existing limit
Total Suspended Solids	16	Existing limit
Ammonia-Nitrogen	2.0	Existing limit
Dissolved Oxygen	6.0	Existing limit
Fecal Coliform (No./100 ml)	200 Geo Mean	Pa Code 92a.47
pH (SU)	6.0 to 9.0	Pa Code 92a.47, 95.2
Ultraviolet light intensity ($\mu\text{w}/\text{cm}^2$)	Report	Pa Code 92a.47-48
Total Nitrogen	Report	Pa Code 92a.61
Total Phosphorus	0.61	Existing limit-previous Skippack TMDL
Total Dissolved Solids	Report	DRBC

Approve	Deny	Signatures	Date
X		<i>Christian French</i> Christian French / Environmental Engineering Specialist	April 10, 2026
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	April 13, 2026

Summary of Review

E. Coli	Report	SOP No. BCW-PMT-033
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Sludge use and disposal description and location(s): Warminster NAWC WWTP

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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.22</u>
Latitude	<u>40° 11' 55.73"</u>	Longitude	<u>-75° 20' 48.40"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Zacharias Creek (TSF, MF)</u>	Stream Code	<u>01048</u>
NHD Com ID	<u>25979108</u>	RMI	<u>2.6</u>
Drainage Area	<u>3.61</u>	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	<u>0.0517</u>	Q ₇₋₁₀ Basis	<u>streamstats</u>
Elevation (ft)	<u>210</u>	Slope (ft/ft)	_____
Watershed No.	<u>3-E</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____

Assessment Status	<u>Impaired</u>
Cause(s) of Impairment	<u>FLOW REGIME MODIFICATION, SILTATION, SILTATION</u>
Source(s) of Impairment	<u>RURAL (RESIDENTIAL AREAS), SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS</u>
TMDL Status	<u>Final</u> Name <u>Skippack Creek Watershed TMDL</u>

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	Flow at Intake (cfs)
PWS RMI	Distance from Outfall (mi)

Treatment Facility Summary

Treatment Facility Name: Valley Green STP

WQM Permit No.	Issuance Date
4697418	09/02/1998
4605404	06/24/2005
4613403	07/17/2013
4614402	09/02/2014
4613404	5/2015
4618403	6/2018
4613403	1/2022
WQG02462214	11/2022

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration With Solids Removal	Ultraviolet	0.22

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.22	477	Not Overloaded		

Compliance History

DMR Data for Outfall 001 (from March 1, 2025 to February 28, 2026)

Parameter	FEB-26	JAN-26	DEC-25	NOV-25	OCT-25	SEP-25	AUG-25	JUL-25	JUN-25	MAY-25	APR-25	MAR-25
Flow (MGD) Average Monthly	0.149	0.1382	0.1422	0.1361	0.1402	0.1392	0.1378	0.142	0.1426	0.1573	0.1524	4.5276
Flow (MGD) Daily Maximum	0.2471	0.222	0.2295	0.2104	0.2057	0.2033	0.2242	0.2021	0.2118	0.2404	0.1928	0.1945
pH (S.U.) Instantaneous Minimum	7.05	7.31	7.57	7.16	7.14	7.1	6.54	7.22	7.17	6.41	6.27	6.24
pH (S.U.) Instantaneous Maximum	8.96	8.99	8.65	8.83	8.48	8.38	8.24	8.24	8.63	8.45	8.63	8.42
DO (mg/L) Instantaneous Minimum	10.24	10.3	9.97	9.9	9.18	8.83	8.44	8.36	8.84	9.21	8.56	9.02
CBOD5 (lbs/day) Average Monthly	5.5	5.6	< 3.6	< 2.9	< 3.1	< 2.8	< 2.5	< 2.2	< 2.2	< 3.2	4.8	5.6
CBOD5 (lbs/day) Weekly Average	6.7	9.0	7.3	< 3.4	4.9	< 3.1	< 3.0	< 3.2	< 2.5	< 3.6	7.6	6.9
CBOD5 (mg/L) Average Monthly	3.2	3.7	< 2.8	< 2.0	< 2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.2	3.4	4.1
CBOD5 (mg/L) Weekly Average	4.0	5.0	5.0	< 2.0	3.6	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	5.0	5.0
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	933	644	749	833	578	640	265	286	236	575	364	289
BOD5 (mg/L) Raw Sewage Influent Average Monthly	552	436	540	579	428	459	213	253	217	378	269	211
TSS (lbs/day) Average Monthly	< 2.6	< 2.5	< 3.6	< 1.5	< 3.7	< 1.4	< 1.6	< 2.3	< 2.3	< 6.2	14.7	9.2
TSS (lbs/day) Raw Sewage Influent Average Monthly	738	368	710	752	539	509	264	217	118	345	305	198

**NPDES Permit Fact Sheet
Worcester Township Valley Green STP**

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TSS (lbs/day) Weekly Average	3.7	5.1	7.3	< 1.7	11.7	1.6	< 2.9	4.8	5.9	12.5	28.2	14.6
TSS (mg/L) Average Monthly	1.5	< 1.6	< 2.8	< 1.0	< 2.6	< 1.0	< 1.3	< 2.0	< 2.0	< 4.2	10.8	7.0
TSS (mg/L) Raw Sewage Influent Average Monthly	440	250	553	506	403	368	217	207	109	232	225	147
TSS (mg/L) Weekly Average	2.0	3.0	5.0	< 1.0	7.0	< 1.0	< 2.0	4.0	5.0	7.0	19.0	10.0
Total Dissolved Solids (mg/L) Daily Maximum			654			584			606			549
Fecal Coliform (No./100 ml) Geometric Mean	< 3	< 2	< 4	< 3	< 2	< 2	< 2	< 2	< 3	< 3	< 5	< 2
Fecal Coliform (No./100 ml) Instantaneous Maximum	5	< 2	30	11	< 2	< 2	< 2	< 2	16	8	52	< 2
UV Intensity (µw/cm²) Daily Minimum	2.4	3	2.1	1.2	0.1	2.1	1.8	1.9	0.1	0.1	0.1	0.1
Total Nitrogen (mg/L) Average Monthly	< 42.43	< 37.54	42.84	< 47.2	< 46.7	< 47.6	< 45.9	< 46	< 34.81	< 39.35	< 41.37	< 42.2
Ammonia (lbs/day) Average Monthly	< 0.5	< 0.1	0.1	< 0.08	0.1	0.4	< 0.07	0.06	0.09	0.4	0.4	0.2
Ammonia (mg/L) Average Monthly	< 0.26	< 0.07	0.1	< 0.07	0.07	0.28	< 0.06	0.06	0.08	0.26	0.26	0.16
Total Phosphorus (lbs/day) Average Monthly	0.5	0.7	0.6	0.6	0.5	0.6	0.4	0.4	0.4	0.6	1.0	0.7
Total Phosphorus (mg/L) Average Monthly	0.32	0.47	0.44	0.40	0.39	0.42	0.36	0.35	0.35	0.46	0.72	0.50

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	Daily Minimum	Average Monthly	Weekly Average	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	6.0 Inst Min	XXX	XXX	XXX	1/day	Grab
CBOD5	18.3	27.5	XXX	10.0	15.0	20	1/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
TSS	29.0	44.0	XXX	16.0	24.0	32	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	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

Outfall 001 , Continued (from 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	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
UV Intensity (µw/cm ²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Metered
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Ammonia	3.7	XXX	XXX	2.0	XXX	4	1/week	24-Hr Composite
Total Phosphorus	1.1	XXX	XXX	0.61	XXX	1	1/week	24-Hr Composite

Compliance Sampling Location: OF 001

Other Comments: None