

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0100943
APS ID 1112245
Authorization ID 1481796

Applicant and Facility Information

Applicant Name	<u>Strattanville Borough Municipal Authority</u>	Facility Name	<u>Strattanville Borough STP</u>
Applicant Address	<u>P.O. Box 139</u> <u>Strattanville, PA 16258-0139</u>	Facility Address	<u>Route 1011</u> <u>Strattanville, PA 16258</u>
Applicant Contact	<u>Russell Davis</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 764-5359</u>	Facility Phone	<u></u>
Client ID	<u>74728</u>	Site ID	<u>263877</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Strattanville Borough</u>
Connection Status	<u>No Limitations</u>	County	<u>Clarion</u>
Date Application Received	<u>April 2, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 14, 2024</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of a NPDES Permit for an existing discharge from a POTW</u>		

Summary of Review

This is a publicly owned sewage treatment plant serving Strattanville Boro and Clarion Township, Clarion County. The facility does not have any industrial or commercial users and is not receiving any hauled in waste.

No changes to discharge quantity or quality were proposed as part of this permit renewal.

There are currently no open violations listed in EFACTS for this client (3/11/2025).

Sludge use and disposal description and location(s): Sludge is hauled offsite by Mobile Solids Solution and disposed of in a municipal 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-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.

Approve	Deny	Signatures	Date
X		Adam J. Pesek Adam J. Pesek, E.I.T. / Project Manager	April 4, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	April 4, 2025

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.15</u>
Latitude	<u>41° 11' 39"</u>	Longitude	<u>-79° 19' 54"</u>
Quad Name	<u>Strattanville</u>	Quad Code	<u>0911</u>
Wastewater Description: <u>Domestic sewage</u>			
Receiving Waters	<u>Unnamed Tributary to Brush Run</u>	Stream Code	<u>49515</u>
NHD Com ID	<u>102670525</u>	RMI	<u>1.28</u>
Drainage Area	<u>1.025</u>	Yield (cfs/mi ²)	<u>0.041</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.042</u>	Q ₇₋₁₀ Basis	<u>USGS #03036000</u>
Elevation (ft)	<u>1390</u>	Slope (ft/ft)	<u>0.01994</u>
Watershed No.	<u>17-B</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use		Existing Use Qualifier	
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS, PH</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE</u>		
TMDL Status	<u>Final</u>	Name	<u>Brush Run (Clarion)</u>
Background/Ambient Data		Data Source	
pH (SU)	<u>6.5</u>	<u>Freestone default (for recovered stream modelling)</u>	
Temperature (°C)	<u>20</u>	<u>Default (CWF)</u>	
Hardness (mg/L)	<u>100</u>	<u>Default</u>	
Other: NH ₃ -N	<u>0.1</u>	<u>Default</u>	
Nearest Downstream Public Water Supply Intake		<u>Parker Area Water Authority</u>	
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u>1450</u>
PWS RMI	<u>85</u>	Distance from Outfall (mi)	<u>36.11</u>

Changes Since Last Permit Issuance: Streamflow was adjusted based on reference gage data.

Other Comments: Stream assessments have determined that the receiving stream does not support aquatic life. It is not expected that the stream will recover within this next permit cycle.

Treatment Facility Summary				
Treatment Facility Name: Strattanville Borough STP				
WQM Permit No.		Issuance Date		
1682401 A-3		8/9/2007		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aerated Lagoon	Gas Chlorine	0.15
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.15	440	Not Overloaded		Landfill

Changes Since Last Permit Issuance: None

Other Comments: N/A

Compliance History	
Summary of DMRs:	There have been 25 effluent violations for this facility in the last 5 years (since 1/1/2020).
Summary of Inspections:	The facility was last inspected on 4/20/2020. Various items of non-compliance were noted including not submitting all required supplemental reports, documentation issues, and nuisances observed at the outfall. It was recommended as part of the inspection that Lagoon #3 (polishing) was full and should be cleaned out.

Other Comments: A consent order and agreement was executed on June 1, 2021 for effluent violations.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Monthly	0.0658	0.0882	0.0599	0.0487	0.0499	0.0635	0.0581	0.0497	0.0672	0.162	0.0997	0.07
Flow (MGD) Daily Maximum	0.1357	0.2422	0.1266	0.1085	0.11	0.1961	0.1575	0.0853	0.1055	0.4882	0.2412	0.1653
pH (S.U.) Daily Minimum	7.43	7.34	7.27	7.2	7.17	7.08	7.1	7.23	7.27	7.42	7.43	7.44
pH (S.U.) Daily Maximum	7.55	7.54	7.37	7.32	7.32	7.44	7.33	7.37	7.43	7.59	8.6	7.57
DO (mg/L) Daily Minimum	14.59	10.61	7.3	4.9	4.44	4.29	4.27	4.46	4.98	8.22	8.19	11.01
TRC (mg/L) Average Monthly	0.19	0.195	0.27	0.37	0.38	0.31	0.24	0.36	0.31	0.2	0.3	0.32
TRC (mg/L) Instantaneous Maximum	0.28	0.34	0.57	0.64	0.63	0.56	0.67	0.65	0.53	0.43	0.6	0.66
CBOD5 (lbs/day) Average Monthly	2.0	4.0	< 2.0	3.0	< 2	< 2.0	< 3	< 1.0	2.0	< 4.0	< 4.0	< 1.0
CBOD5 (lbs/day) Weekly Average	2.0	5.0	3.0	3.0	3.0	3.0	5.00	2.0	3.0	< 5.0	< 6.0	< 1.0
CBOD5 (mg/L) Average Monthly	4.6	4.2	< 5.2	6.0	< 4.9	< 4.7	< 4.7	< 3.8	5.0	< 3.0	< 3.0	< 3.2
CBOD5 (mg/L) Weekly Average	5.3	5.1	7.3	6.3	6.8	6.3	6.3	4.5	6.1	< 3.0	< 3.0	3.4
BOD5 (mg/L) Raw Sewage Influent Average Monthly	89.7	47.0	65.9	110.0	135.0	91.0	51.5	90.8	69.7	44.6	79.1	49.3
TSS (lbs/day) Average Monthly	7	5.0	13.0	13.0	5.0	6.0	15.0	8.0	9.0	19	18.0	7.0
TSS (lbs/day) Weekly Average	8	5.0	13.0	13.0	6.0	6.0	24.00	10.0	13.0	31	26.0	8.0
TSS (mg/L) Average Monthly	15.0	6.0	29.0	30.0	15.0	16.0	24.0	21	18.0	13.0	13.0	18.00
TSS (mg/L) Raw Sewage Influent Average Monthly	30.0	21.0	71.0	39.00	40.0	42.0	23.0	35.0	35.0	24.0	48.0	20.00

**NPDES Permit Fact Sheet
Strattanville Borough STP**

NPDES Permit No. PA0100943

TSS (mg/L) Weekly Average	15.0	6.0	33.00	32.0	16.0	16.0	34.0	23	25.00	18.0	13.0	20.00
Fecal Coliform (No./100 ml) Geometric Mean	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	6.0	< 7.0	< 1.0	< 1.0	< 1.0	< 1.0
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1.0	13.0	< 1.00	< 1.0	< 1.0	< 1.0	8.0	45.0	< 1.0	< 1.0	2.0	< 1.0
Total Nitrogen (mg/L) Average Quarterly		11.4			3.95			7.24			11.6	
Ammonia (mg/L) Average Quarterly		9.62			0.81			4.82			10.9	
Total Phosphorus (mg/L) Average Quarterly		0.85			1.69			1.13			1.0	
Total Aluminum (mg/L) Average Quarterly		< 0.1			0.26			0.24			0.17	
Total Iron (mg/L) Average Quarterly		0.66			3.43			3.57			2.06	
Total Manganese (mg/L) Average Quarterly		0.42			2.45			2.85			1.12	

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	.15
Latitude	41° 11' 39"	Longitude	-79° 19' 54"
Wastewater Description:	Domestic sewage		

Technology-Based Limitations

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

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	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)
E. Coli	Report (No./100 ml)	IMAX	-	92a.61

Comments: Monitoring for E. Coli is placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
N/A	---	---	---

Comments: Since there is no aquatic life in the receiving stream in the vicinity of the discharge, secondary treatment limits are applied in accordance with PA Code 25 Ch. 95.5. Although a TMDL was developed for the Brush Run watershed, there is no reasonable expectation that the stream will improve "significantly" within the next permit cycle.

Best Professional Judgment (BPJ) Limitations

Comments: Influent BOD₅ and TSS monitoring will be placed in the permit in accordance with the Department's SOP entitled "New and Reissuance Sewage Individual NPDES Permit Applications."

A dissolved oxygen limit of a minimum of 4.0 mg/l, a TRC IMAX limit of 1.6 mg/l, and monitoring for ammonia nitrogen, total nitrogen, and total phosphorus will be placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Other Considerations

There are no waste load allocations in the Brush Run TMDL for this facility. Therefore, monitoring for total aluminum, total iron, and total manganese will be retained in the permit a monitoring frequency of 1/quarter to evaluate the need to place effluent limits for these parameters in the NPDES Permit in the future and also to collect data if the TMDL is revised in the future.

Anti-Backsliding

N/A

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	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	31	50	XXX	25.0	40.0	50	2/month	24-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	24-Hr Composite
TSS	37	56	XXX	30.0	45.0	60	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Ammonia	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite

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	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Aluminum	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite
Total Iron	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite
Total Manganese	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	24-Hr Composite

Compliance Sampling Location: Outfall 001 (after disinfection)

Other Comments: Existing sampling frequencies were retained as minimal concern was observed from DMR data for pollutants being monitored.