Pennsylvania Department of Environmental Protection

Northeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application Type	**Renewal & Transfer**	Application No.	**PA0063657 A-2**
Facility Type	**Non-Municipal**	APS ID	**1135337**
Major / Minor	**Minor**	Authorization ID	**1523496**

Applicant and Facility Information

Applicant Name	**William & Tess Jendrzejewski**	Facility Name	**Sarah J. Dymond Elementary School**
Applicant Address	8 Marilyn Drive	Facility Address	635 Sutton Creek Road
	Shavertown, PA 18708-9730		Harding, PA 18643-2942
Applicant Contact	William Jendrzejewski, Owner	Facility Contact	William Jendrzejewski, Owner
Applicant Phone	(570) 371-7762	Facility Phone	(570) 371-7762
Client ID	374565	Site ID	446374
Ch 94 Load Status	Not Overloaded	Municipality	Exeter Township
Connection Status	No Limitations	County	Luzerne
Date Application Received	April 14, 2025	EPA Waived?	Yes
Date Application Accepted	April 22, 2025	If No, Reason	-

Purpose of Application: Renewal and Transfer of NPDES permit for discharge of treated sewage.

Summary of Review

The applicant is requesting the renewal and transfer of an NPDES permit to discharge up to 0.0068 MGD of treated sewage into an Unnamed Tributary to Sutton Creek, a Cold-Water Fishery, Migratory Fish (CWF, MF) receiving stream in State Water Plan basin 4-G (Mehoopany-Bowman Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

The facility has been closed for many years now. An Inspection Report dated September 30, 2020 states "the school has not been open for the past two years, therefore the flow is minimal". A site Inspection Report dated February 27, 2025 indicates the Wastewater Treatment Plant (WWTP) is not active and there is no discharge. The Report also indicates the permittee was thinking about submitting a Notice of Termination. The permittee has decided to renew the permit to assist in the sale of the facility.

Limitations for pH, $CBOD_5$, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit.

The annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

A BPJ-based limitation of 5.0 mg/L instantaneous minimum for Dissolved Oxygen (DO) has been added to the permit. The new limit will come into effect three (3) years after the permit effective date. Monitoring/Reporting for DO will be required before the limitation comes into effect.

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried Zukosky / Project Manager	April 24, 2025
X		/s/ Edward Dudick, P.E. / Environmental Engineer Manager	April 24, 2025

Summary of Review

WQM modeling recommended stricter summertime limitations for Ammonia-Nitrogen (May1 – October 31) (4.2 mg/L monthly average, 8.4 mg/L IMAX). These limitations will come into effect three (3) years after the permit effective date. Wintertime monitoring/reporting for Ammonia-Nitrogen has also been updated to three times the new summertime limitations (12.6 mg/L monthly average, 25.2 mg/L IMAX). The limitations for Ammonia-Nitrogen from the previously issued permit will be in effect the first three (3) years of the permit.

The Total Residual Chlorine (TRC) Calculation Spreadsheet recommends stricter limitations than the previous permit. The permittee will be required to meet the new water quality-based limits for TRC starting three (3) years after the effective date of the permit. TRC limitations from the previously issued permit are in effect for the first three years after the permit effective date.

Sewage discharges now require monitoring and reporting for E. Coli. A monitoring frequency of 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD, 1/year for design flows of 0.002 – 0.05 MGD will be utilized.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

The previous NPDES Permit utilized USGS Stream Gage 01533400 - Susquehanna River at Meshoppen, PA. This stream gage is not close to Outfall 001 and is located on the Susquehanna River, which is much larger than the Unnamed Tributary to Sutton Creek. USGS StreamStats was instead used to obtain a Q_{7-10} and calculate a LFY. The default Low Flow Yield (LFY) of 0.1 cfs/mi^2 was also used to calculate a flow. The StreamStats data was ultimately used for the WQM 7.0 and TRC Spreadsheet modeling. The RMI values were obtained using the "PA Historic Streams" feature of eMapPA, drainage areas were delineated using USGS's StreamStats Interactive Map, and elevations were obtained using the elevation profile feature of StreamStats.

This renewal also incorporates a transfer. An "A-2" notation has been added after the NPDES permit number.

WQM Permit 4097401 will be transferred concurrently when the final NPDES permit renewal/transfer is issued.

The previous Client ID was 343522 (Sutton Creek Properties LLC). The new Client ID is 374565 (Tess and William Jendrzejewski).

There are currently 13 open violations for this facility:

1. 08/03/2021 - Violation ID 933778 – Violation Code 92A.62 – NPDES-Failure to pay annual fee.

2. 03/28/2022 - Violation ID 951748 – Violation Code 92A.75(A) – NPDES-Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date.

3. 03/28/2022 - Violation ID 951749 – Violation Code 92A.41(A)12B – NPDES-Failure to submit monitoring report(s) or properly complete monitoring reports

4. 03/28/2022 - Violation ID 951750 – Violation Code 302.1202 – Operator Certification - Owner failed to comply with the Act or Chapter 302 regulations.

5. 02/04/2022 - Violation ID 952579 – Violation Code 92A.75(A) – NPDES - Failure to submit NPDES renewal application at least 180 days prior to expiration or later approved date.

6. 02/04/2022 - Violation ID 952580 – Violation Code 92A.44 – NPDES - Violation of effluent limits in Part A of permit.

7. 02/04/2022 - Violation ID 952581– Violation Code 92A.41(A)12B – NPDES - Failure to submit monitoring report(s) or properly complete monitoring reports.

8. 02/04/2022 - Violation ID 952582 – Violation Code 92A.62 – NPDES-Failure to pay annual fee.

9. 07/11/2022 - Violation ID 961255 – Violation Code 92A.41(A)8 – NPDES - Failure to provide information or records required by the permit or otherwise needed to determine compliance.

Summary of Review

10. 07/11/2022 - Violation ID 961256 – Violation Code 302.1202 – Operator Certification - Owner failed to comply with the Act or Chapter 302 regulations.

11. 09/07/2022 - Violation ID 967204 – Violation Code 92A.62 – NPDES-Failure to pay annual fee.

12. 09/15/2022 - Violation ID 968955 – Violation Code 92A.41(A)8 – NPDES - Failure to provide information or records required by the permit or otherwise needed to determine compliance.

13. 09/15/2022 - Violation ID 968956 – Violation Code 92A.1(B)– NPDES - Discharge of pollutants from a point source into surface waters without an NPDES permit.

A Water Management System Inspection query indicated that on February 27, 2025 a Compliance Evaluation was performed.

The existing permit expired on May 31, 2023 and the application for renewal was received on April 14, 2025.

Sludge use and disposal description and location(s): The plant is closed and there is no discharge.

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.	001	Design Flow (MGD)	0.0068
Latitude	41º 23' 10.83"	Longitude	-75º 50' 52.81"
Quad Name	Ransom	Quad Code	0739
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Sutton Creek (CWF)	Stream Code	28665
NHD Com ID	66410333	RMI	0.21
Drainage Area	1.47 mi^2	Yield (cfs/mi^2)	0.008
Q_{7-10} Flow (cfs)	0.0111	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	816.58	Slope (ft/ft)	-
Watershed No.	4-G	Chapter 93 Class.	CWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	-
Nearest Downstream Public Water Supply Intake	Danville Borough Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	-
PWS RMI	122.58	Distance from Outfall (mi)	~ 66

Treatment Facility Summary

Treatment Facility Name: Sarah J. Dymond Elementary School

WQM Permit No.	Issuance Date
4097401	11/10/1997

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Chlorination	Facility is currently not operating. No Discharge

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0068	-	Not Overloaded	Holding	Hauled

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0068
Latitude 41º 23' 11.26" **Longitude** -75º 50' 53.36"
Wastewater Description: Sewage Effluent

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
$CBOD_5$	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	IMAX	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	IMAX	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)
Dissolved Oxygen	5.0	Minimum	-	BPJ
E. Coli	Report	Annual Average	-	92a.61

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.16	Average Monthly	TRC Spreadsheet
	0.53	IMAX	
Ammonia-Nitrogen Nov 1 - Apr 30	12.6	Average Monthly	WQM 7.0
	25.2	IMAX	
Ammonia-Nitrogen May 1 - Oct 31	4.2	Average Monthly	
	8.4	IMAX	
Nitrate-Nitrite as N	Report	Annual Average	Previous Permit
Total Nitrogen	Report	Annual Average	
Total Kjeldahl Nitrogen	Report	Annual Average	
Total Phosphorus	Report	Annual Average	

Anti-Backsliding

No limitations were made less stringent.

Modeling Using USGS StreamStats:

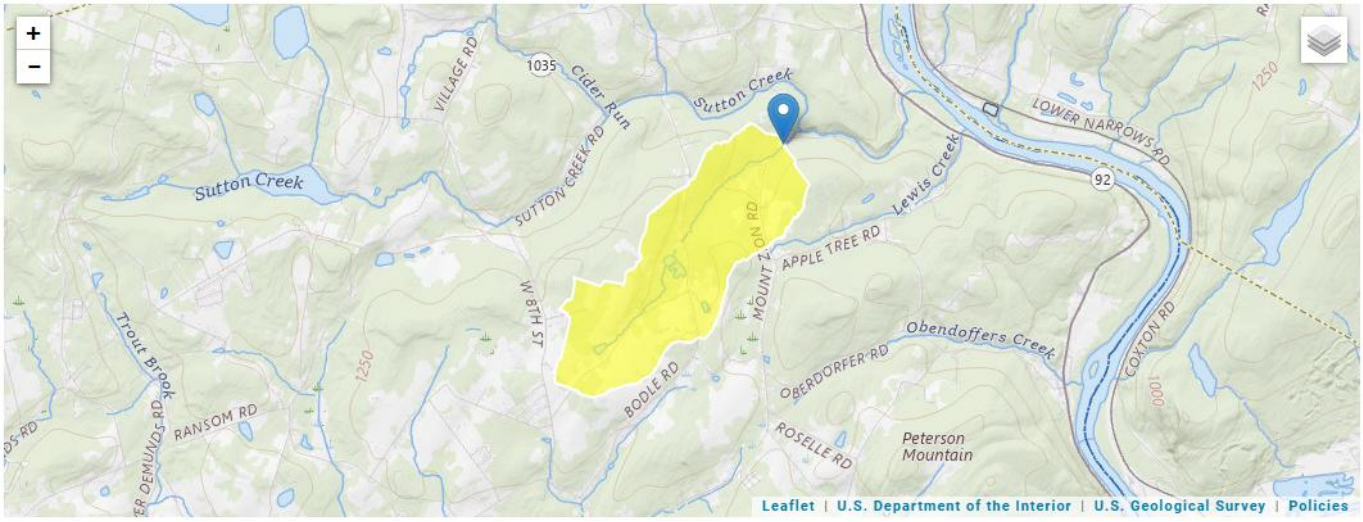
At Outfall 001 on Unnamed Tributary to Sutton Creek:

RMI	Elevation (ft)	Drainage Area (mi^2)	$Q_{7\text{-}10}$ Flow (cfs)
0.21	816.58	1.47	0.0111

$$Low\ Flow\ Yield\ using\ StreamStats = \frac{0.0111\ ft^3/sec}{1.47\ mi^2} = \mathbf{0.0008}\ \frac{\boldsymbol{ft^3/sec}}{\boldsymbol{mi^2}}$$

StreamStats Report

Region ID:	PA
Workspace ID:	PA20250422141427793000
Clicked Point (Latitude, Longitude):	41.38658, -75.84781
Time:	2025-04-22 10:15:07 -0400



Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	1.47	square miles

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0463	ft^3/s
30 Day 2 Year Low Flow	0.0742	ft^3/s
7 Day 10 Year Low Flow	0.0111	ft^3/s

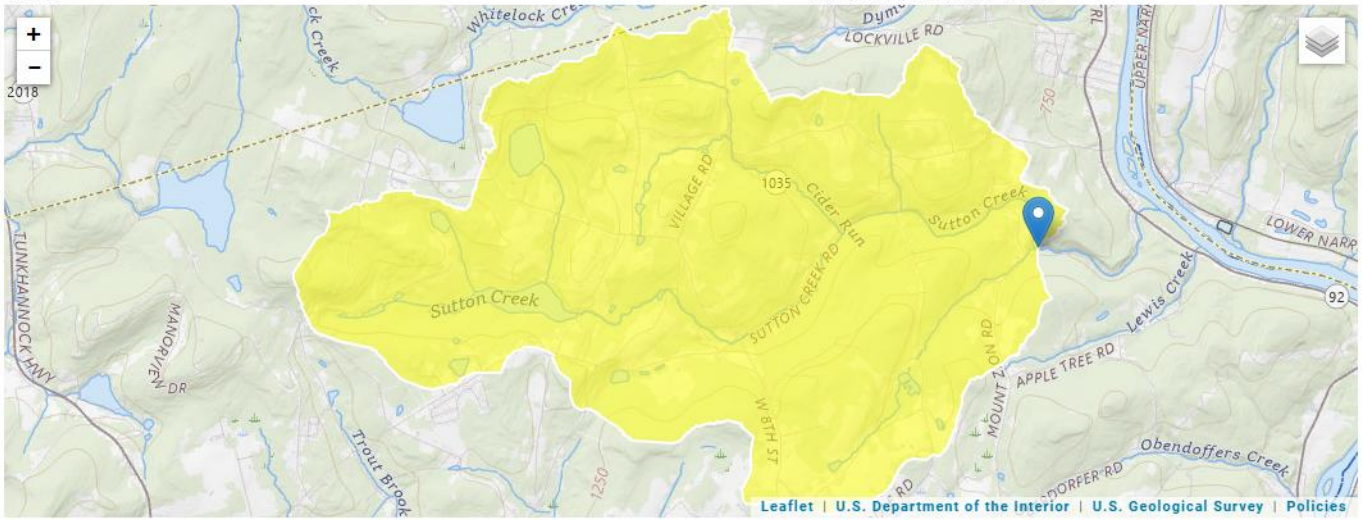
One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

At confluence with Sutton Creek (28664):

RMI	Elevation (ft)	Drainage Area (mi^2)
1.38	720.38	11

StreamStats Report

Region ID:	PA
Workspace ID:	PA20250422142619483000
Clicked Point (Latitude, Longitude):	41.38798, -75.84521
Time:	2025-04-22 10:27:01 -0400



Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	11	square miles

Modeling using the state-wide Low-Flow Yield (LFY) of 0.1 cfs/mi²:

$$\frac{0.1\ ft^3/sec}{mi^2} \times 1.47\ mi^2 = \frac{\mathbf{0.147\ ft^3}}{\mathbf{sec}}$$

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
04G	28665	Trib 28665 to Sutton Creek

RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
0.210	Dymond Ele Schl	PA0063657	0.007	CBOD5	25		
				NH3-N	4.19	8.38	
				Dissolved Oxygen			3

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.0111	= Q stream (cfs)	0.5	= CV Daily
0.0068	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		=Decay Coefficient (K)

Source	Reference	AFC Calculations		Reference	CFC Calculations	
TRC	1.3.2.iii	WLA afc =	0.356	1.3.2.iii	WLA cfc =	0.339
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc =	0.581
PENTOXSD TRG	5.1b	LTA_afc=	0.133	5.1d	LTA_cfc =	0.197

Source		Effluent Limit Calculations		
PENTOXSD TRG	5.1f	AML MULT =	1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) =	0.163	AFC
		INST MAX LIMIT (mg/l) =	0.533	

WLA afc	(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))... ...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))... ...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)

WQM 7.0.pdf