

Application Type New  
 Facility Type Non-Municipal  
 Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0284823  
 APS ID 1058219  
 Authorization ID 1387483

**Applicant and Facility Information**

Applicant Name	<u>James A Stollar Jr</u>	Facility Name	<u>Stollar Properties SFTF</u>
Applicant Address	<u>362 Armstrong Drive</u> <u>Washington, PA 15301-7725</u>	Facility Address	<u>362 Armstrong Drive</u> <u>Washington, PA 15301-7725</u>
Applicant Contact	<u>James Stollar</u>	Facility Contact	<u>Same as applicant</u>
Applicant Phone	<u>(724) 554-7701</u>	Facility Phone	<u>Same as applicant</u>
Client ID	<u>368576</u>	Site ID	<u>855683</u>
Ch 94 Load Status	<u>N/A – new facility</u>	Municipality	<u>Canton Township</u>
Connection Status	<u>N/A – new facility</u>	County	<u>Washington</u>
Date Application Received	<u>February 11, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 14, 2022</u>	If No, Reason	<u></u>
Purpose of Application	<u>Application for new NPDES permit for discharge of treated sewage.</u>		

**Summary of Review**

The applicant proposes to construct a 0.0008 MGD (800 gpd) small flow treatment facility as a repair for two, existing on-lot systems for two neighboring 3-bedroom homes.



Act 537 Planning Approval was granted on December 2, 2021.

The Act-14 PL 834 Municipal Notification was provided by the letters dated December 13, 2021. No comments were received.

Sludge use and disposal description and location(s): N/A

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*

Approve	Deny	Signatures	Date
X		 Grace Polakoski, E.I.T. / Environmental Engineering Specialist	March 22, 2022
X		 Mahbuba Iasmin, Ph.D., P.E. / Environmental Engineer Manager	
			April 6, 2022

**Summary of Review**

*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>.0008</u>
Latitude	<u>40° 10' 42"</u>	Longitude	<u>-80° 18' 40.94"</u>
Quad Name	<u>Washington West</u>	Quad Code	<u>40080B3</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Chartiers Creek (WWF)</u>	Stream Code	<u>37138</u>
NHD Com ID	<u>99694610</u>	RMI	<u>1.01</u>
Drainage Area	<u>0.097 sq. mi.</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.00499</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.000484</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>20-F</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>NUTRIENTS, SILTATION, PCBs, CHLORDANE, PESTICIDES, ORGANICS, METALS</u>		
Source(s) of Impairment	<u>AGRICULTURE, AGRICULTURE</u>		
TMDL Status	<u>Final, Final</u>	Name	<u>Chartiers Creek, Chartiers Creek Watershed</u>
Background/Ambient Data		Data Source	
pH (SU)	<u></u>		<u></u>
Temperature (°F)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Western PA W Co – Washington Dis</u>		
PWS Waters	<u>Chartiers Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>2.33</u>

**Chartiers Creek TMDL**

A TMDL for Chartiers Creek was approved by the EPA on April 9, 2001 for the control of PCBs and chlordane. This TMDL applies to the Chartiers Creek and a small section of Little Chartiers Creek. In accordance with 40 CFR § 122.44(d)(1)(vii)(B), when developing WQBELs, the permitting authority shall ensure that effluent limits developed to protect a narrative water quality criterion, a numeric water quality criterion, or both, are consistent with the assumptions and requirements of any available wasteload allocation (WLA) for the discharge prepared by the State and approved by the EPA pursuant to 40 CFR § 130.7. Per the *Total Maximum Daily Load – PCB and Chlordane – Chartiers Creek – 3/8/01 document*, the use of both PCB and Chlordane has been banned in the United States. So, there will be no new point sources to which controls can be applied. PCB and Chlordane present in the main stem of Chartiers Creek are believed to reside primarily in the sediment due to historical use and improper disposal practices. Long-term natural attenuation coupled with the implementation on the existing source identified in the TMDL (i.e., Cooper Power System) is expected to reduce PCB and Chlordane contamination from the Chartiers Creek sediments over time. Due to this and the fact that the TMDL is currently monitoring the levels of PCBs and chlordane in fish, the Stollar Properties SFTF will not be assigned wasteload allocations. No monitoring of PCBs and Chlordane will also be applied.

**Chartiers Creek Watershed TMDL**

A TMDL for the Chartiers Creek Watershed was approved by the EPA on April 9, 2003 for the control of aluminum, iron, and manganese. In accordance with 40 CFR § 122.44(d)(1)(vii)(B), when developing WQBELs, the permitting authority shall ensure that effluent limits developed to protect a narrative water quality criterion, a numeric water quality criterion, or both, are consistent with the assumptions and requirements of any available wasteload allocation (WLA) for the discharge prepared by the State and approved by the EPA pursuant to 40 CFR § 130.7. Stream Code 37138 was listed in the TMDL as being impaired for siltation and nutrients. Monitoring for nutrients will be imposed.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Stollar Properties SFTF				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
6322400		Under Department Review		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Secondary	Septic Tank	UV	0.0008
<b>Hydraulic Capacity (MGD)</b>				
0.0008	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
		N/A		Other WWTP

Changes Since Last Permit Issuance: N/A

Other Comments: WQM Permit No. 6322400, currently under DEP review, approves construction of an STP with a rated annual average design flow of 0.0008 MGD. The treatment process consists of:

- One (1) 2300-gal capacity Singulair Bio-Kinetic Model 960-1000 treatment tank
- One (1) 1,055-gal capacity Hydro-Kinetic Bio-Film reactor
- One (1) Model AT 1500 UV disinfection systems

Act 537 Planning was approved for this project on December 2, 2021.

<b>Compliance History</b>	
<b>Summary of DMRs:</b>	This is a new facility. eDMR will be utilized once discharging begins.
<b>Summary of Inspections:</b>	This is a new facility. No inspections have been conducted yet.

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>.0008</u>
<b>Latitude</b> <u>40° 10' 42.00"</u>	<b>Longitude</b> <u>-80° 18' 40.94"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>	

**Technology-Based Limitations**

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SFTF permits based on the requirements of DEP’s “Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application” (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised May 17, 2019).

Parameter	Minimum	Avg	IMAX	Sample Type	Frequency: SFTFs	Frequency: SRSTPs
Flow (GPD)	XXX	Report	XXX	Estimate (SRSTPs) Measured (SFTFs)	1/month	1/year
BOD5 (mg/L)	XXX	10	20	Grab	1/month	1/year
TSS (mg/L)	XXX	10	20	Grab	1/month	1/year
pH*	6.0 S.U. Inst. Min.	XXX	9.0 S.U.	Grab	1/month	1/year
TRC (mg/L)	XXX	Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs		Grab	1/month	1/year
Fecal Coliform (No./100 ml)	XXX	200 Geometric Mean (SFTFs) / Average (SRSTPs)		Grab	1/month	1/year

\* Technology-Based effluent limits for pH will be imposed based upon Federal Regulation 133.102(c) and State Regulation 95.2(1).

**Additional Considerations:**

For SFTFs/SRSTPs with UV disinfection systems, it is not necessary to require UV intensity or transmittance monitoring in this permit.

SFTFs/SRSTPs are typically not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits. However, the receiving stream segment is listed in the Chartiers Creek Watershed as being impaired for nutrients. Since this is a new discharge, monitoring for Total Nitrogen and Total Phosphorus will be imposed with a sampling frequency that matches the other conventional pollutants.

**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" (362-0400-001), SOPs and/or BPJ.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: