

Southwest Regional Office CLEAN WATER PROGRAM

Application Type

Wastewater Type

Facility Type

Sewage

SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0256048

 APS ID
 1050510

 Authorization ID
 1374228

olicant Name	Brian	Hart	Facility Name	Hart Properties SRSTP
olicant Address	3104	Lillian Avenue	Facility Address	2784 Pleasant Valley Road
	Murry	sville, PA 15668-1905		Murrysville, PA 15668-2642
olicant Contact	Brian	Hart	Facility Contact	Same as applicant
olicant Phone	(724)	244-4807	Facility Phone	Same as applicant
nt ID	36640)4	Site ID	852884
Code	8800		Municipality	Murrysville Borough
Description	Privat	e Households	County	Westmoreland
Application Rece	eived	October 25, 2021	WQM Required	Yes
Application Acce	epted	December 27, 2021	WQM App. No.	6521406

Summary of Review

The applicant proposed to construct a 0.0004 MGD Single Residence Sewage Treatment Plant (SRSTP).

The discharge is to UNT 37357 to Lyons Run, which is classified as Trout Stock Fishes (TSF), located in watershed 19A.

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		forker T Coldenite	Navarah an 47, 0004
		Jordan Coldsmith / Environmental Engineering Specialist	November 17, 2021
х		MAHBURA IASMIN	
		Mahbuba lasmin, Ph.D., P.E. / Environmental Engineer Manager	February 24, 2022
		Chke	
		Christopher Kriley, P.E. / Program Manager	February 24, 2022

scharge, Receiving Waters and Water Suppl	ly Information
0.47.11.11.20.4	D : 51 (MOD) 2004
Outfall No. 001	Design Flow (MGD)0004
Latitude 40° 24' 59.73"	Longitude79° 41' 37.24"
Quad Name Murrysville	Quad Code 40079D6
Wastewater Description: Sewage Effluent	
Llandered Tributemete Lee	ana Dun
Unnamed Tributary to Lyc Receiving Waters (TSF)	ons Run Stream Code 37357
NHD Com ID 99407332	RMI 1.1
Drainage Area 0.0661	Yield (cfs/mi²) 0.00446
Q ₇₋₁₀ Flow (cfs) 0.000295	Q ₇₋₁₀ Basis USGS StreamStat
Elevation (ft) 1255	Slope (ft/ft)
Watershed No. 19A	Chapter 93 Class. TSF
Existing Use	Existing Use Qualifier
Exceptions to Use	Exceptions to Criteria
Assessment Status Attaining Use(s)	Exceptions to officeria
Cause(s) of Impairment Aluminum, Iron,	Manganoso nH
Source(s) of Impairment Acid Mine Draina	
TMDL Status Final	Name Turtle Creek Watershed
TIMDE Status Filial	Name Turtle Creek Watershed
Packground/Ambient Date	Data Source
Background/Ambient Data	Data Source
pH (SU)	
Temperature (°F)	
Hardness (mg/L)	
Other:	
Nearest Downstream Public Water Supply Inta	ike PA AMER WATER CO-PITTSBURGH
PWS Waters Monongahela River	Flow at Intake (cfs)
PWS RMI	Distance from Outfall (mi) 19.7

Changes Since Last Permit Issuance: N/A - New Permit Issuance

Other Comments: See Attached Streamstats report

Treatment Facility Summary					
Treatment Facility Na	ame: Hart Properties SRSTP				
WQM Permit No.	Issuance Date				
6521406	Under Department Review				
	Degree of			Avg Annual	
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)	
Sewage	Tertiary	Aerobic Tank	UV	0.0004	
-					
Hydraulic Capacity	Organic Capacity			Biosolids	
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal	
.0004	, , , ,	Not Overloaded		Other WWTP	

Changes Since Last Permit Issuance: None – New Permit Issuance

Other Comments: WQM Permit No. 6521406 currently under department review; approves construction of a STP with a rated annual average design flow of 0.0004 MGD. The treatment process consists of:

- Bio-kinetic model 960-500 Treatment Tank
- Hydro-Kinetic Bio-film Reactor
- Model AT 1500 UV Disinfection System

Act 537 planning for this project was approved September 30, 2021.

Development of Effluent Limitations						
Outfall No.	001	Design Flow (MGD)	.0004			
Latitude	40° 24' 59.73"	Longitude	-79° 41' 37.24"			
Wastewater D	Description: Sewage Effluent					

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

TMDL

This facility discharges to the Turtle Creek Watershed. This Watershed has a TMDL that was finalized on June 29, 2009 and is impaired by metals and pH. Abandoned mine drainage is a source of such impairment. The sewage discharge from the Hart SRSTP is not expected to contribute to the stream impairment. No WLAs have been developed for this sewage discharge, and they are not expected to contribute to the stream impairment for these pollutants. No monitoring requirements for Total Iron, Total Manganese and Total Aluminum will be imposed on this facility.

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.

			Effluent L	imitations			Monitoring Requirement		
Parameter	Mass Units (lbs/day) (1)			Concentrations (mg/L)				Required	
Farameter	Annual Average	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate	
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/year	Grab	
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab	
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab	
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab	

Compliance Sampling Location: Outfall 001

Other Comments:

Ultraviolet (UV) disinfection is used, and therefore, Total Residual Chlorine (TRC) limits are not applicable. Current policy does not require SRSTPs to monitor for UV Intensity.

SRSTPs are not required to monitor for Total Nitrogen and Total Phosphorus in new and reissued permits.

The receiving stream is not impaired for nutrients.

StreamStats Report

Region ID: PA

Workspace ID: PA20211228140017507000

Clicked Point (Latitude, Longitude): 40.41528, -79.69315

Time: 2021-12-28 09:00:37 -0500



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0661	square miles
ELEV	Mean Basin Elevation	1255	feet

	arameters [Low Flow Region				
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0661	square miles	2.26	1400

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
ELEV	Mean Basin Elevation	1255	feet	1050	2580

Low-Flow Statistics Disclaimers [Low Flow Region 4]

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

Low-Flow Statistics Flow Report [Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.00132	ft^3/s
30 Day 2 Year Low Flow	0.0029	ft^3/s
7 Day 10 Year Low Flow	0.000295	ft^3/s
30 Day 10 Year Low Flow	0.00078	ft^3/s
90 Day 10 Year Low Flow	0.00184	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)