

Southwest Regional Office CLEAN WATER PROGRAM

Application Type

Wastewater Type

Facility Type

New

Sewage

SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

 Application No.
 PA0285102

 APS ID
 1088852

 Authorization ID
 1440430

Applicant Name	Dale Versaw	Facility Name	Versaw Properties SRSTP	
Applicant Address	611 Ashton Court	Facility Address	241 Bovard Luxor Road	
	Irwin, PA 15642-3692		Greensburg, PA 15601	
Applicant Contact	Dale Lutterman	Facility Contact	Dale Versaw	
Applicant Phone	(724) 244-5028	Facility Phone	(724) 244-5028	
Client ID	377302	Site ID	864795	
SIC Code	8800	Municipality	Unity Township	
SIC Description	Private Households	County	Westmoreland	
Date Application Recei	ved May 12, 2023	WQM Required	Yes	
Date Application Accepted		WQM App. No.	6523401	

Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received a new Part I NPDES and Part II WQM permit applications from Fred R. Brant (consultant) of F.R. Brant Company on behalf of Mr. Dale Versaw (applicant) on May 12, 2023. The applications are for a proposed Small Flow Treatment Facility (SFTF/SRSTP) located in Unity Township, Westmoreland County with an average design flow of 500 GPD and 0.9 lbs. BOD₅/day from a proposed 4-bedroom single-family residence. The proposed discharge is into UNT to Little Crabtree Creek through Outfall 001.

This fact sheet is developed in accordance with 40 CFR §124.56

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		
V					
Y		Reza H Chowdhury, E.I.T / Project Manager	May 30, 2023		
X		Pravin Patel			
		Pravin C Patel, P.E. / Environmental Engineer Manager	06/05/2023		

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information						
Outfall No. 001 Latitude 40° 20' 17.20" Quad Name Latrobe		Design Flow (MGD) Longitude Quad Code	.0005 -79° 27' 37.00" 1610			
Wastewater Description	on: Sewage Effluent					
Receiving Waters <u>C</u>	Jnnamed Tributary to Little Crabtree Creek (WWF) 125292718	Stream Code RMI	<u>43375</u> 0.2000			
Watershed No. 1	18-C	Chapter 93 Class.	WWF			
Existing Use V	Existing Use WWF		Ch. 93			
Exceptions to Use						
Assessment Status	Attaining Use(s)					
Cause(s) of Impairmen	nt					
Source(s) of Impairme	ent					
TMDL Status Final		Kiskiminetas-Conemaugh River Name Watersheds TMDL				
Nearest Downstream	Public Water Supply Intake	None within 100 miles downst	ream of Outfall 001			

Changes Since Last Permit Issuance: None, new application.

Other Comments:

Anti-Degradation Requirement:

Chapter 93.4a(b) of the Department's rules and regulations require that "Existing instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." The discharge is into a stream segment designated as Warm-Water Fishes (WWF). No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

Class A Wild Trout Streams:

No Class A Wild Trout Fishery will be impacted by this discharge.

Kiskiminetas-Conemaugh River Watershed TMDL:

Kiskiminetas-Conemaugh River Watersheds TMDL was approved by EPA on January 29, 2010 for AMD discharges. There is no reason to believe this SRSTP will be discharging these metals in high concentrations. Therefore, no monitoring for TMDL parameters is proposed in this permit.

Treatment Facility summary:

The application was submitted for a new SRSTP named Versaw Property SRSTP that will be constructed to serve a proposed 4-bedroom single dwelling located in 241 Bovard Luxor Road, Greensburg, PA 15601. The proposed discharge will be into an UNT to Little Crabtree Creek (WWF) through Outfall 001.

The details of the proposed treatment plant will be discussed in the Internal Review & Recommendation (IR&R) that will accompany the WQM permit under WQM permit number 6523401. In summary, the proposed treatment plant will be a Singulair Bio-Kinetic Model 960-500 treatment tank, followed by a Hydro-Kinetic Bio-Film Reactor with a model AT 1500 UV disinfection system and discharge into UNT to Little Crabtree Creek through Outfall 001.

NPDES Permit Fact Sheet Versaw Properties SRSTP

The proposed treatment technology isn't listed in the SFTF Manual, therefore, the facility doesn't qualify for coverage under general PAG04 permit.

Development of effluent limitations:

Flow monitoring:

Flow monitoring will be placed in this permit in accordance with DEP's SOP BCW-PMT-003 revised May 17, 2019. The reporting frequency set forth is once a year and sample type is Estimate (for SRSTP.)

Biochemical Oxygen Demand (BOD₅)

An average annual BOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Total Suspended Solids (TSS)

An average annual BOD₅ limit of 10 mg/l and IMAX limit of 20 mg/l will be placed in this permit. These limits are consistent with the SOP.

Fecal Coliform:

A year-round annual average and IMAX limit of 200 No./100 ml will be placed in this permit.

UV:

The SOP indicates that it is not necessary to require UV intensity or transmittance monitoring in the permit for SRSTPs/SFTFs.

The Design Engineer's Report stated that the UV system will be inspected and cleaned on a monthly basis, the Singulair-HKBFR Combo will have regular service every six months, and the UV bulb will be changed annually.

The Design Engineers Report accompanied with the WQM permit indicated that the proposed treatment plant can treat the wastewater to generate an effluent that will have maximum CBOD5 of 8.0 mg/l and TSS of 7.0 mg/l

Act 537 Planning was approved under PADEP Code 65959-23-006 on March 22, 2022.

Proposed Effluent Limitations and Monitoring Requirements

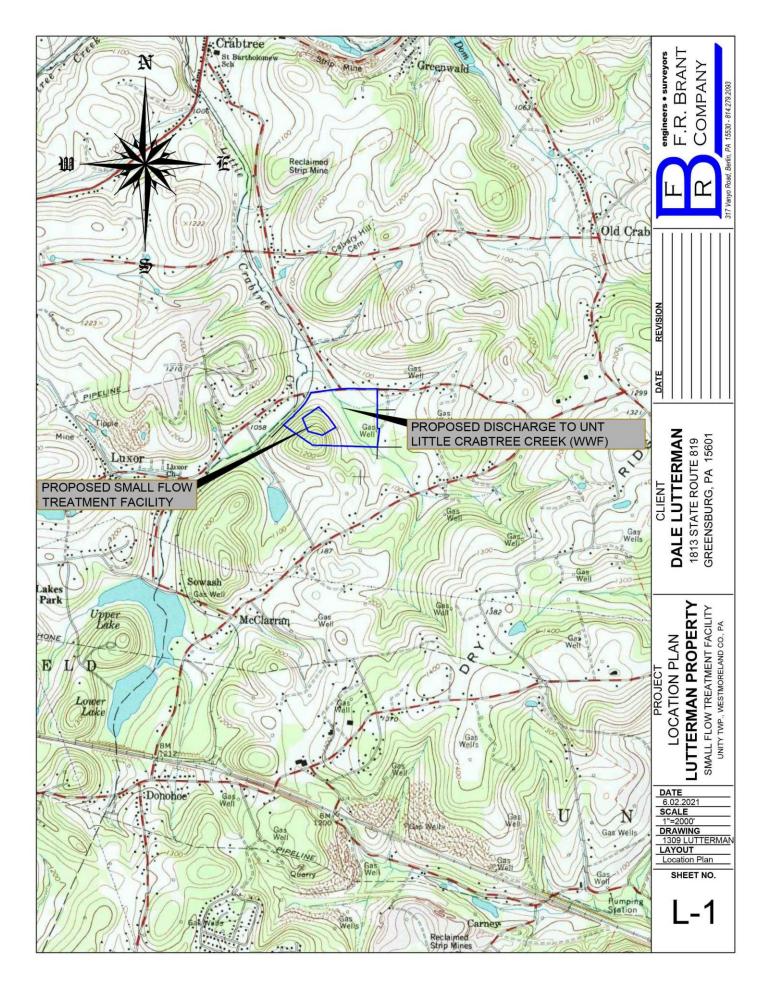
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

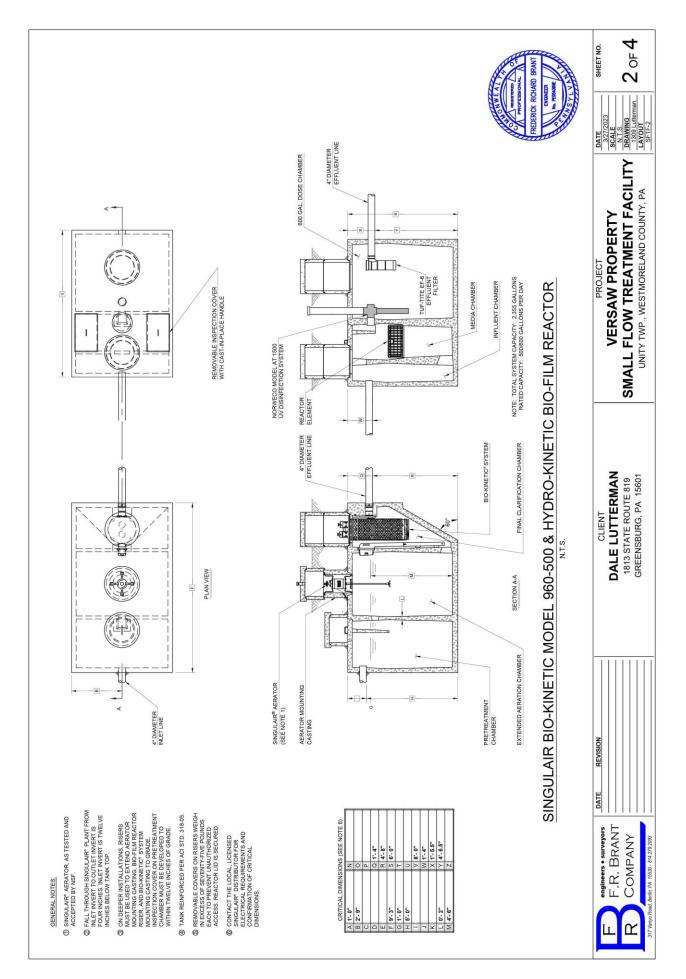
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations				Monitoring Requirements			
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)			Minimum ⁽²⁾	Required	
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
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: After last treatment unit

Other Comments: None





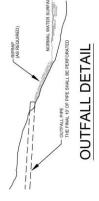
SHEET NO.

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SYSTEM PROFILE 1"=50' H. & 1"=10' V.

DOSING TANKS (IF NECESSARY)
The dosing tank shall be a rectangular

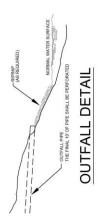
he grade of the building sewer shall be at least 1/8 inch per foot soeding the treatment tank shall not exceed 1/4 inch per foot.



4" MIN. DROF

20" MIN. RISER (POLYLOCK OR EQUAL)

20" MIN. D-BOX (POLYLOCK OR EQUAL)



SMALL FLOW TREATMENT FACILITY UNITY TWP., WESTMORELAND COUNTY, PA **VERSAW PROPERTY** PROJECT

REVISION

SAMPLING PORT DETAIL

DATE engineers • surveyors

F.R. BRANT COMPANY

K

DALE LUTTERMAN 1813 STATE ROUTE 819 GREENSBURG, PA 15601

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