

Northwest Regional Office CLEAN WATER PROGRAM

Application Type
Wastewater Type
Facility Type
SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0272507

APS ID 1000781

Authorization ID 1286763

Applicant Name	Ralph Engel	Facility Name	Ralph Engel SRSTP
Applicant Address	202 Estate Lane	Facility Address	105 Albert Drive
	Harmony, PA 16037-8708		Prospect, PA 16052
Applicant Contact	Ralph Engel	Facility Contact	
Applicant Phone	(724) 968-6581	Facility Phone	
Client ID	352126	Site ID	837172
Municipality	Muddycreek Township	County	Butler
SIC Code	8800	SIC Code	4952
SIC Description	Private Households	SIC Description	Trans. & Utilities - Sewerage Systems
Received	August 14, 2019	WQM Required	Pending
Accepted	September 23, 2019	WQM App. No.	1019405

Summary of Review

Proposed is a small flow sewage treatment facility serving a new four-bedroom residence.

The discharge is to a dry drainage swale with a similar discharge 0.04 mile upstream. The secondary waters are a intermittent un-named tributary to Little Yellow Creek. Perennial stream conditions are estimated at Tributary RMI 0.53 approximately 0.68-miles downstream.

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		William H. Mentzer, P.E. Environmental Engineering Specialist	September 24, 2019		
X		Justin C. Dickey, P.E. Environmental Engineer Manager			

scharge, Receivi	ng Water	s and Water Supply Info	rmation				
Outfall No.	001			Design Flow (MGD)	0.0005 -80° 7' 7.95"		
Latitude NHD	40° 53	' 15.27"		Longitude NHD			
Latitude DP	40° 53	' 13.92"		Longitude DP	-80° 7' 14.52"		
Quad Name	Prospe	ect		Quad Code	1105		
Wastewater:	Treate	d single residence domest	ic wastes				
Receiving Waters	Unnar	ned tributary to Little Yello	w Creek	Stream Code	unknown		
NHD Com ID	12621	-		RMI	0.11		
Drainage Area	0.1			Yield (cfs/mi²)	0		
Q ₇₋₁₀ Flow (cfs)	0			Q ₇₋₁₀ Basis	Dry swale 0.034		
Elevation (ft)	1240.	35		Slope (ft/ft)			
Watershed No.	20C			Chapter 93 Class.	Cold Water Fish		
Existing Use	statev	vide		Existing Use Qualifier	none		
Exceptions to Use	none			Exceptions to Criteria	none		
Comments	The d	ry drainage swale confluer	ce is at intermittent tributary 34930 RMI 1.07.				
NHD determined t	ributary 3	34930 is perennial at RMI (0.53.				
Assessment Statu	S	Impaired					
Cause(s) of Impai	rment	Metals					
Source(s) of Impa	irment	ACID MINE DRAINAGE					
TMDL Status		Final		Name Little Connoqu	uenessing Creek Watershed		
Background/Ambient Data pH (SU)			Data Source				
Temperature (°F)							
Hardness (mg/L) Other:							
				ov Dorovah Water Avitha	24		
Nearest Downstre	am Publi	c Water Supply Intake	Harmoi	ny Borough Water Autho	ority		
Nearest Downstre		c Water Supply Intake nnoquenessing Creek		ny Borough Water Autho v at Intake (cfs)	5.22		

Changes Since Last Permit Issuance: NA

Other Comments:

No downstream impairments expected from this proposal. Also this proposal should not impact the mining Little Connoquenessing Creek TMDL.

Stream flow at the downstream intake is based on 63.90 square mile drainage at an allocation point and 0.082-cfs/square mile based on Slippery Rock Creek at Wurtemburg.

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
Farameter	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		Sample Type
Flow (MGD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001 after disinfection

Other Comments: UV monitoring and maintenance as stated on the AMR.