

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0245526
APS ID 1091301
Authorization ID 1444706

Applicant, Facility and Project Information

Applicant Name	<u>Michael Nacarella</u>	Facility Name	<u>Nacarella Residence SRSTP</u>
Applicant Address	<u>1324 S Old Bethlehem Pike</u> <u>Quakertown, PA 18951-2716</u>	Facility Address	<u>1324 S Old Bethlehem Pike</u> <u>Quakertown, PA 18951-2716</u>
Applicant Contact	<u>Michael Nacarella</u>	Facility Contact	<u>Michael Nacarella</u>
Applicant Phone	<u>(215) 622-1667</u>	Facility Phone	<u>(610) 469-3830</u>
Client ID	<u>378119</u>	Site ID	<u>865491</u>
SIC Code	<u>1623</u>	Municipality	<u>Richland Township</u>
SIC Description	<u>Construction - Water, Sewer, And Utility Lines</u>	County	<u>Bucks</u>
Date Application Received	<u>May 5, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>0923401</u>
Project Description	<u>.</u>		

Summary of Review

This applicant is requesting permit approval for discharging to Morgan Creek (TSF) from a small flow wastewater treatment facility serving the existing home at 1324 S Old Bethlehem Pike owned by Michael Nacarella and located in Richland Township, Bucks County.

This proposed facility will serve the existing 3-bedroom residence that is expected to generate 400gpd. The treatment facilities proposed consist of a 1000-gallon primary septic tank, a recirculating tank with an Orenco AdvanTex treatment System (AX20-RTUV) and a 4-inch PVC diameter outfall discharging to the dry swale to Morgan Creek. There will be UV disinfection before discharge to the swale.

Act 14 Notification:

County of Buck: received on 3/15/2023
Richland Township: received on 3/15/2023

Planning Approval:

Approved with 400 GPD on 1/27/2023
The planning approval includes 70% reduction in effluent total nitrogen that is approved in Pennsylvania.

Special conditions:

- AMR and DMR submission
- UV disinfection contact surface cleaning

Approve	Deny	Signatures	Date
X		<i>Charley Yang</i> Charley Yang / Environmental Engineering Specialist	August 9, 2023
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	08/09/2023

Summary of Review

- 70% reduction in effluent Total Nitrogen

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 and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0004</u>
Latitude	<u>40° 24' 50.35"</u>	Longitude	<u>-75° 20' 22.04"</u>
Quad Name	<u>Quakertown</u>	Quad Code	<u>1543</u>
Wastewater Description:		<u>Sewage Effluent</u>	
Receiving Waters	<u>Morgan Creek (TSF, MF)</u>	Stream Code	<u>03184</u>
NHD Com ID	<u>26053476</u>	RMI	<u>2.49</u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u></u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>2-D</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>TSF, MF</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</u>		
Source(s) of Impairment	<u>HIGHWAY/ROAD/BRIDGE RUNOFF (NON-CONSTRUCTION RELATED), RURAL (RESIDENTIAL AREAS)</u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>BCWSA NEW HOPE</u>		
PWS Waters	<u>Delaware River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>73.31</u>	Distance from Outfall (mi)	<u>33.7</u>

Changes Since Last Permit Issuance:

Other Comments:

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) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
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
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: