

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0057363
APS ID 1114856
Authorization ID 1487085

Applicant, Facility and Project Information

Applicant Name <u>Penns Park Master Association</u>	Facility Name <u>ARCCA Real Estate SFSTP</u>
Applicant Address <u>2288 2nd Street Pike</u> <u>Penns Park, PA 18943</u>	Facility Address <u>2288 Second Street Pike</u> <u>Penns Park, PA 18943</u>
Applicant Contact <u>Scott Clarke</u>	Facility Contact <u>Scott Clarke</u>
Applicant Phone <u>(215) 598-9750</u>	Facility Phone <u>(215) 598-9750</u>
Client ID <u>111451</u>	Site ID <u>482894</u>
SIC Code <u>4952</u>	Municipality <u>Wrightstown Township</u>
SIC Description <u>Trans. & Utilities - Sewerage Systems</u>	County <u>Bucks</u>
Date Application Received <u>June 3, 2024</u>	WQM Required _____
Date Application Accepted _____	WQM App. No. <u>0998402</u>
Project Description <u>Permit renewal.</u>	

Summary of Review

PA DEP received permit renewal application from Private Utility Enterprises on behalf of ARCCA Real Estate Corporation to discharge of treated sewage effluent from a small flow treatment facility that serves a business office into unnamed tributary to Neshaminy Creek. The originally approved permitted design flow (hydraulic capacity) was 0.002 mgd. The Act 537 revised approval, dated April 3, 2009, is for an average annual flow of 1,492 gpd.

The sewage treatment plant consists of an aeration unit, clarifier, dosing tank, three sand filters, lift station and chlorination unit. The effluent discharge flow from the small flow sewage treatment plant is generally from 500 gpd to 1000 gpd. Based on a review of e-DMRs data, the facility has been in compliance with effluent limits. Facility inspection was conducted by Rebecca Painter of Operations Section on August 24, 2023. No violations were noted.

The basis for the limits when this facility was proposed was the Department's "Implementation Guidance for Evaluating Wastewater Discharges to Drainage Ditches and Swales" (DEP doc. 391-2000-014). Based on the topographic map, the discharge is to a dry swale that becomes intermittent approximately 2000 feet downstream of the discharge point. The point where the stream is shown as perennial is approximately 5200 feet downstream of the discharge point. The stream is perennial for approximately 1800 feet prior to its confluence with Neshaminy Creek. Based on the guidance, "minimum treatment" requirements were imposed due to the proximity of residences and ease of access to the swale. A TRC limit of 0.5 mg/l (BAT) was also required. Considering that 1) the discharge travels approximately one mile before perennial conditions requiring protection of aquatic life occur, and 2) the decay of pollutants that would occur during that travel time (assuming the discharge does not infiltrate to groundwater under low flow conditions), modeling the discharge is not necessary. Existing limits are rolled over for this renewal.

Act 14 Notice to Wrightstown Township on May 29, 2024.

Act 14 Notice to Bucks County Commissioners Office on May 29, 2024.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	8/5/2024
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	08/05/2024

Summary of Review

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>0.002</u>
Latitude	<u>40° 15' 46.39"</u>	Longitude	<u>-75° 0' 22.59"</u>
Quad Name	<u>Buckingham</u>	Quad Code	<u>1645</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Neshaminy Creek (WWF, MF)</u>	Stream Code	<u>02595</u>
NHD Com ID	<u>25475776</u>	RMI	<u>1.0</u>
Drainage Area	<u>< 0.1 mi2</u>	Yield (cfs/mi²)	<u>0</u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>Observation and Topo map</u>
Elevation (ft)	<u>300</u>	Slope (ft/ft)	<u>0.020</u>
Watershed No.	<u>2-F</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	<u>Same as Ch. 93</u>	Existing Use Qualifier	<u>na</u>
Exceptions to Use	<u>none</u>	Exceptions to Criteria	<u>none</u>
Assessment Status	<u>Neshaminy Creek is impaired</u>		
Cause(s) of Impairment	<u>Nutrients, pH, organic enrichment/low DO</u>		
Source(s) of Impairment	<u>Municipal Point Source</u>		
TMDL Status	<u>Final</u>	Name	<u>Neshaminy Creek</u>
Nearest Downstream Public Water Supply Intake	<u>Aqua PA – Neshaminy intake</u>		

Changes Since Last Permit Issuance: There are no changes to facility since last permit renewal.

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	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.3	1/week	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20	XXX	40	1/month	Grab
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	1/month	Grab
TSS	XXX	XXX	XXX	10	XXX	20	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	9.0	XXX	18	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab

Compliance History

DMR Data for Outfall 001 (from June 1, 2023 to May 31, 2024)

Parameter	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23
Flow (MGD) Average Monthly	0.00054	0.00051	0.00054	0.04533 7	0.04530 7	0.00052	0.00049 6	0.00051	0.00057	0.00063	0.00046	0.00048
Flow (MGD) Daily Maximum	0.00074	0.00074	0.00094	0.04535 1	0.04532 2	0.00069	0.00098	0.00072	0.00109	0.003	0.00068	0.0007
pH (S.U.) Instantaneous Minimum	7.75	7.29	7.2	7.32	7.09	6.92	7.38	7.28	7.08	7.46	7.28	7.00
pH (S.U.) Instantaneous Maximum	7.99	7.46	7.79	7.55	7.72	7.88	7.82	7.84	7.49	7.86	7.67	7.55
DO (mg/L) Instantaneous Minimum	9.13	9.39	9.28	8.39	8.94	9.75	8.06	8.48	8.07	7.2	6.78	7.98
TRC (mg/L) Average Monthly	< 0.01	0.1	0.04	< 0.3	0.01	0.1	0.1	0.1	0.1	0.02	0.2	0.04
TRC (mg/L) Instantaneous Maximum	0.02	0.13	0.1	0.7	1.05	0.12	0.1	0.18	0.11	0.07	0.5	0.05
CBOD5 (mg/L) Average Monthly	< 2	< 2	< 2	< 2	4	< 2	2	< 2	< 2	< 2	< 2	7
TSS (mg/L) Average Monthly	< 1.0	3.0	< 1.0	4.0	< 1.0	4.0	4	< 1.0	3.0	4.0	5.0	5
Fecal Coliform (No./100 ml) Geometric Mean	< 2	34	< 2.0	< 2	< 2	< 2	< 2	7	< 2	< 25	< 38	< 2
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 2	34	< 2.0	< 2	< 2	< 2	< 2	7	< 2	310	718	< 2
Ammonia (mg/L) Average Monthly	< 0.02	0.1	< 0.02	1.9	0.1	0.8	< 0.02	1.0	0.1	0.2	0.1	< 0.02
Total Phosphorus (mg/L) Average Monthly	5.5	1.3	0.8	3.1	1.9	2.6	1.6	2.8	4.2	4.4	5.3	2.73