

Application Type Renewal
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0057908
 APS ID 1031656
 Authorization ID 1341959

Applicant and Facility Information

Applicant Name	<u>Jericho National Golf Club, Inc.</u>	Facility Name	<u>Jericho National Golf Club STP</u>
Applicant Address	<u>250 Brownsburg Road</u> <u>New Hope, PA 18938</u>	Facility Address	<u>250 Brownsburg Road</u> <u>New Hope, PA 18938</u>
Applicant Contact	<u>Raymond Sowden</u>	Facility Contact	<u>Michael Sullivan</u>
Applicant Phone	<u>(215) 862-8800</u>	Facility Phone	<u>(215) 766-2626</u>
Client ID	<u>91193</u>	Site ID	<u>455959</u>
Ch 94 Load Status	<u></u>	Municipality	<u>Upper Makefield Township</u>
Connection Status	<u></u>	County	<u>Bucks</u>
Date Application Received	<u>January 29, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The applicant requests renewal of NPDES permit to discharge 4,220 GPD of treated sewage from the sewage treatment plant serving Jericho National Golf Club into unnamed tributary to Jericho Creek. The treatment plant serves the club house, locker room, restaurant, and banquet facility. The discharge is on the on-site pond, which is used for stormwater retention and irrigation supply for the Golf Club.

The sewage treatment plant consists of an equalization tank, a clarifier, tertiary filter, chlorine contact tank, de-chlorination and sludge holding tank. The effluent limits are based on protection of human health and groundwater protection as the discharge is into on-site pond to be used for spray irrigation of golf course. Effluent limits for all other parameters will remain the same. The discharge is in compliance with permit limits and is expected to be in compliance in future.

Sludge use and disposal description and location(s): Sludge is hauled to Warminster NAWC facility.

The discharge is located in the "Special Protection Waters" (SPW) of Delaware River. Therefore, any expansion of the treatment plant or increase in the flow will result in recalculation of the limits under SPW requirements.

Approve	Deny	Signatures	Date
X		Ketan Thaker / Project Manager <i>Ketan Thaker</i>	March 15, 2021
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	03/15/2021

Summary of Review

The following are the effluent limits.

PARAMETERS	EFFLUENT LIMITS (Av. Mo. In mg/l)	BASIS
CBOD5 (05/01 to 10/31)	10	Human Health and GW Protection
CBOD5 (11/01 to 04/30)	20	Human Health and GW Protection
Total Suspended Solids	10	Human Health and GW Protection
Ammonia (05/01 to 10/31)	3.0	Human Health and GW Protection
Ammonia (11/01 to 04/30)	9.0	Human Health and GW Protection
Phosphorus as P	Report	92a.61
Fecal Coliform (#/100 ml)	200#/100 ml (Geo. Mean)	92a.47
Dissolved Oxygen	4.0 (Minimum)	BPJ
pH (Standard Units – SU)	6.0 to 9.0 STD	92a.47, 95.2
Total Residual Chlorine	0.5	92a.47-48
Total Nitrogen	Report	92a.61

Act-14 Notifications to Bucks County and Upper Makefield Township on January 12, 2021.

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, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0042</u>
Latitude	<u>40° 18' 23.71"</u>	Longitude	<u>-74° 55' 47.45"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Jericho Creek (WWF, MF)</u>	Stream Code	<u>02981</u>
NHD Com ID	<u>26044006</u>	RMI	<u>0.4</u>
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	_____		
Source(s) of Impairment	_____		
TMDL Status	_____	Name	_____
Background/Ambient Data		Data Source	
pH (SU)	_____	_____	
Temperature (°F)	_____	_____	
Hardness (mg/L)	_____	_____	
Other:	_____	_____	
Nearest Downstream Public Water Supply Intake _____			
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

Compliance History

DMR Data for Outfall 001 (from February 1, 2020 to January 31, 2021)

Parameter	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20
Flow (GPD) Average Monthly	0.0015	0.0015	0.0022	0.0018	0.00154 7	0.0013	0.0016	0.0015	0.001	0.0004	0.0011	0.0016
pH (S.U.) Instantaneous Minimum	8.04	7.42	7.59	7.65	6.82	6.66	6.79	7.06	7.06	6.98	7.8	7.57
pH (S.U.) Instantaneous Maximum	8.75	8.37	8.33	8.56	7.35	7.0	7.40	7.39	7.86	8.19	8.19	8.37
DO (mg/L) Instantaneous Minimum	10.11	9.19	8.41	8.78	8.31	7.17	7.71	8.49	8.83	7.78	10.44	7.47
TRC (mg/L) Average Monthly	< 0.02	< 0.01	< 0.01	< 0.1	< 0.01	< 0.02	< 0.01	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01
TRC (mg/L) Instantaneous Maximum	0.04	0.02	0.01	0.41	0.02	0.03	0.01	0.03	0.04	0.01	< 0.01	0.01
CBOD5 (mg/L) Average Monthly	6.6	3.7	< 2.3	3.4	5.1	5.6	< 3.6	< 2.2	< 2.6	4.0	< 2.3	4.8
TSS (mg/L) Average Monthly	< 1.0	< 4.0	3.0	< 1.0	< 1.0	< 4.0	< 3.0	1.0	< 2.0	< 1.0	2.0	< 3.0
Fecal Coliform (CFU/100 ml) Geometric Mean	< 2.0	< 4.0	< 5.0	< 2.0	< 2.0	< 3.0	< 2.0	< 7.0	< 2.0	< 2.0	< 4.0	< 39.0
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	< 2.0	50.0	88.0	< 2.0	< 2.0	< 13.0	3.0	300.0	< 2.0	< 2.0	18.0	11700.0
Total Nitrogen (mg/L) Average Monthly	< 16.42	< 25.55	< 22.08	< 26.98	< 48.52	< 30.3	< 30.03	< 52.75	< 41.77	< 14.84	< 7.45	< 4.1
Ammonia (mg/L) Average Monthly	< 0.1	< 0.9	< 0.1	< 0.1	< 0.1	< 0.3	< 0.1	< 0.8	< 0.2	< 0.1	< 0.2	< 0.3
Total Phosphorus (mg/L) Average Monthly	4.73	4.99	4.33	5.01	6.63	5.17	6.69	9.37	5.37	2.39	2.3	3.36

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 (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	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	1.2	1/week	Grab
CBOD5 Nov 1 - Apr 30	XXX	XXX	XXX	20.0	XXX	40	2/month	8-Hr Composite
CBOD5 May 1 - Oct 31	XXX	XXX	XXX	10.0	XXX	20	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	10.0	XXX	20	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200.0 Geo Mean	XXX	1000.0	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200.0 Geo Mean	XXX	1000.0	1/week	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	9.0	XXX	18	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite