

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0050547
 APS ID 1125440
 Authorization ID 1505991

Applicant and Facility Information

Applicant Name	<u>Indian Run Village LLC</u>	Facility Name	<u>Indian Run Village</u>
Applicant Address	<u>PO Box 677</u> <u>Morgantown, PA 19543-0677</u>	Facility Address	<u>1 Lenape Way</u> <u>Honey Brook, PA 19344-9413</u>
Applicant Contact	<u>James Perano</u>	Facility Contact	<u>Leanne Miller</u>
Applicant Phone	<u>(610) 286-0490</u>	Facility Phone	<u>(610) 286-0490</u>
Client ID	<u>237247</u>	Site ID	<u>243316</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>West Brandywine Township</u>
Connection Status		County	<u>Chester</u>
Date Application Received	<u>November 8, 2024</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The applicant requests approval for renewal of a NPDES permit to discharge an average monthly flow of 37,500 gpd of treated sewage from the Indian Run Village Mobile Home Park sewage treatment plant to Indian Run Creek, a tributary to East Branch of Brandywine Creek.

Existing plant consists of influent lift station, influent grinder, equalization tank, clarifier, 2 chlorine contact tanks, sand filters and a dichlorination tank. Poly-aluminum chloride is used for phosphorous removal, soda ash is used for pH adjustment, 12.5% sodium hypochlorite is used for disinfection and sodium bi-sulfate is used for effluent de-chlorination.

The Christina River Basin TMDL for low-flow conditions issued by the Environmental Protection Agency (EPA) on January 19, 2001, and revised in October 2002 and April 2006 included this discharge with a flow of 0.0375 mgd. The TMDL set wasteload allocations (Summary Table 14) for CBOD₅, NH₃N, Total Phosphorus, Total Nitrogen (TN), and DO.

Limits for Total Nitrogen were added to the previous permit renewal based on the TMDL requirements. The TN limits are carried over for this permit renewal.

There were no changes to the facility since last permit renewal, therefore, previously established effluent limits and monitoring requirements will remain for this current renewal.

Permittee is subject to a consent decree with DRBC entered on January 30, 2013 with a docket No. 5: 12-CV-05553-JKG. The consent decree requires the applicant and related parties to conduct comprehensive environmental audits, identify areas of noncompliance, and perform corrective actions necessary to achieve compliance at the facilities subject to the consent decree. In addition, they must self-report the violations to the department. Facility has exceedances for TSS, CBOD₅, Fecal Coliform, and Total Phosphorus in 2024.

Approve	Deny	Signatures	Date
X		<i>Christian French</i> Christian French / Environmental Engineering Specialist	January 9, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineering Manager	01/10/2025

Summary of Review

Chester County Planning Commission and West Brandywine Township were notified about this application by certified mail on June 27, 2024.

Sludge use and disposal description and location(s): N/A

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>.0375</u>
Latitude	<u>40° 4' 14.84"</u>	Longitude	<u>-75° 48' 32.01"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Indian Run (HQ-CWF, MF)</u>	Stream Code	<u>00360</u>
NHD Com ID	<u>26105608</u>	RMI	<u>2.5</u>
Watershed No.	<u>3-H</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Final</u>	Name	<u>Christina River Basin</u>

Changes Since Last Permit Issuance: There were no changes to the facility since last permit renewal nor were any changes to the TMDL.

Treatment Facility Summary

Treatment Facility Name: Indian Run Village MHP STP

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage			Gas Chlorine	
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0375		Not Overloaded		

Compliance History

DMR Data for Outfall 001 (from December 1, 2023 to November 30, 2024)

Parameter	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23
Flow (MGD) Average Monthly	0.0238	0.0244	0.0292	0.033	0.0294	0.0284	0.0271	0.0326	0.0343	0.0294	0.0351	0.0343
Flow (MGD) Daily Maximum	0.0313	0.0368	0.0366	0.0771	0.0421	0.0419	0.0355	0.0893	0.0691	0.0401	0.0804	0.0695
pH (S.U.) Instantaneous Minimum	7.12	6.71	7.1	7.05	7.11	7.18	7.15	7.0	6.93	6.77	6.89	6.54
pH (S.U.) Instantaneous Maximum	7.27	7.26	7.49	7.42	7.51	7.44	7.37	7.29	7.27	7.53	7.58	7.36
DO (mg/L) Instantaneous Minimum	5.22	5.64	5.46	5.07	5.62	6.39	6.2	6.72	8.26	8.46	5.94	6.44
TRC (mg/L) Average Monthly	< 0.03	< 0.04	< 0.04	< 0.03	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04	< 0.03	< 0.09	0.04
CBOD5 (lbs/day) Average Monthly	< 0.90	< 0.40	< 0.60	< 3.90	< 0.70	< 0.50	0.90	6.00	10.00	0.80	6.00	6.00
CBOD5 (mg/L) Average Monthly	< 3.6	< 2.2	< 2.3	< 8.3	< 2.4	< 2.1	4.1	12.2	19.8	3.6	15.1	15
TSS (lbs/day) Average Monthly	< 1.00	< 0.70	< 1.00	< 5.00	< 1.00	1.00	< 2.00	< 14.00	< 7.00	3.00	< 5.00	10.00
TSS (mg/L) Average Monthly	< 5	< 4	< 5.4	< 11.9	< 4	5.8	< 10.5	< 31.6	< 15.1	11	< 12.9	26.2
Fecal Coliform (No./100 ml) Average Monthly	< 1	< 1	< 1	< 33	< 2	2	9	< 5	< 9	< 3	< 11	< 35
Fecal Coliform (No./100 ml) Instantaneous Maximum	< 1	< 1	1	> 20000	5	6	17	200	1100	11	254	20000
Total Nitrogen (lbs/day) Average Monthly	1.000	2.000	1.000	2.000	0.800	0.300	2.000	3.000	5.000	2.000	4.000	4.000
Total Nitrogen (mg/L) Average Monthly	6.0	10.2	4.75	5.29	3.1	1.42	9.77	7.38	11.66	7.23	10.74	10.45

**NPDES Permit Fact Sheet
Indian Run Village**

NPDES Permit No. PA0050547

Ammonia (lbs/day) Average Monthly	0.700	< 0.020	< 0.030	< 0.0600	< 0.030	< 0.020	< 0.020	< 0.900	< 2.000	< 0.060	< 1.000	< 1.000
Ammonia (mg/L) Average Monthly	2.91	< 0.1	< 0.1	< 1.14	< 0.1	< 0.1	< 0.1	< 1.57	< 2.92	< 0.26	< 3.94	< 2.36
Total Phosphorus (lbs/day) Average Monthly	< 0.040	0.050	0.300	0.400	0.080	0.070	0.100	0.300	0.300	0.100	0.200	0.300
Total Phosphorus (mg/L) Average Monthly	< 0.17	0.26	1.0	1.07	0.27	0.29	0.66	0.67	0.72	0.48	0.57	0.84

Compliance History

Effluent Violations for Outfall 001, from: January 1, 2024 To: November 30, 2024

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
CBOD5	03/31/24	Avg Mo	10.00	lbs/day	6.26	lbs/day
CBOD5	08/31/24	Avg Mo	< 3.90	lbs/day	3.13	lbs/day
TSS	04/30/24	Avg Mo	< 14.00	lbs/day	6.26	lbs/day
TSS	03/31/24	Avg Mo	< 7.00	lbs/day	6.26	lbs/day
TSS	04/30/24	Avg Mo	< 31.6	mg/L	20	mg/L
Fecal Coliform	08/31/24	IMAX	> 20000	CFU/100 ml	1000	CFU/100 ml
Fecal Coliform	03/31/24	IMAX	1100	CFU/100 ml	1000	CFU/100 ml
Total Phosphorus	08/31/24	Avg Mo	0.400	lbs/day	.313	lbs/day
Total Phosphorus	08/31/24	Avg Mo	1.07	mg/L	1.0	mg/L

Summary of Inspections: Compliance evaluation was completed at facility 11/01/2024. Violations were noted during inspection, but will be resolved for 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” (386-0400-001), 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	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.4	XXX	1	1/day	Grab
CBOD5 Nov 1 - Apr 30	6.26	XXX	XXX	20	XXX	40	2/month	24-Hr Composite
CBOD5 May 1 - Oct 31	3.13	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
TSS	6.26	XXX	XXX	20	XXX	40	2/month	24-Hr Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	9.382	XXX	XXX	30.0	XXX	60	2/month	Calculation
Ammonia Nov 1 - Apr 30	2.817	XXX	XXX	9.0	XXX	18	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	0.939	XXX	XXX	3.0	XXX	6	2/month	24-Hr Composite
Total Phosphorus	0.313	XXX	XXX	1.0	XXX	2	2/month	24-Hr Composite



Approve	Deny	Signatures	Date
X		<i>Christian French</i> Christian French / Environmental Engineering Specialist	January 9, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineering Manager	01/10/2025