

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0045187
APS ID 1134038
Authorization ID 1521212

Applicant and Facility Information

Applicant Name <u>Richland Comm LLC</u>	Facility Name <u>Richland Meadows MHP STP</u>
Applicant Address <u>232 Yankee Road</u> <u>Quakertown, PA 18951</u>	Facility Address <u>232 Yankee Road Lot 500</u> <u>Quakertown, PA 18951-5325</u>
Applicant Contact <u>Lee Williams</u>	Facility Contact <u>Timothy Mong</u>
Applicant Phone <u>(215) 536-6084</u>	Facility Phone <u>(215) 872-1980</u>
Client ID <u>112977</u>	Site ID <u>238709</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Richland Township</u>
Connection Status <u>No Limitations</u>	County <u>Bucks</u>
Date Application Received <u>March 7, 2025</u>	EPA Waived? <u>Yes</u>
Date Application Accepted _____	If No, Reason _____
Purpose of Application <u>Renewal application.</u>	

Summary of Review

The permittee has submitted a renewal application to discharge sewage from their facility into Morgan Creek (TSF, MF) through Outfall 001.

The facility is serving Richland Meadows Mobile Home Park.

It consists of 2 equalization tanks; 1st stage aeration tank; 1ststage clarifier; 2ndstage aeration tank; 2ndstage clarifier; tertiary chlorine contact tank; sana filters; dichlorination.

Based on the recent site visit conducted by DEP and dated 3/13/25, following stated in inspection report:

"There are more than 400 residential units in the MHP. The majority of the collection system is original and is of clay or transite construction. No major projects to reduce I&I are anticipated in the future but Mr. Rice stated that old lateral sections and damaged pipes are replaced as tenants turn over, and obvious inflow issues such as roof leaders plumbed to the sewer or broken/buried vents are corrected."

No major issues are noted.

The review of the effluent sampling results revealed no non-compliance issues for last year.

No changes in influent or effluent characteristics and previously established effluent limits and monitoring requirements will be proposed in exception of quarterly reporting for E.coli based on recent statewide requirement (listed on pp7-8).

Development of Effluent Limitations is listed in p. 6 of this factsheet.

Approve	Deny	Signatures	Date
X		<i>Begay Omuralieva</i> Begay Omuralieva / Environmental Engineering Specialist	August 13, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	08/13/2025

Summary of Review

Act Notification 14:

Bucks County Planning Commission – March 7, 2025

Richland TWP – March 7, 2025

Sludge use and disposal description and location(s): Lehigh Co Tretreatment facility

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>.08</u>
Latitude	<u>40° 24' 27.42"</u>	Longitude	<u>-75° 21' 47.41"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Morgan Creek (TSF, MF)</u>	Stream Code	<u>03184</u>
NHD Com ID	<u>26053504</u>	RMI	<u>3.5100</u>
Drainage Area	<u></u>	Yield (cfs/mi²)	<u></u>
Q7-10 Flow (cfs)	<u></u>	Q7-10 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></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>final</u>	Name	<u>Nockamixon Lake TMDL</u>
Background/Ambient Data	Data Source		
pH (SU)	<u></u>	<u></u>	
Temperature (°F)	<u></u>	<u></u>	
Hardness (mg/L)	<u></u>	<u></u>	
Other:	<u></u>	<u></u>	
Nearest Downstream Public Water Supply Intake			
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance: none

Treatment Facility Summary

Treatment Facility Name: Richland Meadows MHP STP

WQM Permit No.	Issuance Date
0900416	12/28/2000

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration With Solids Removal	Chlorine With Dechlorination	0.08
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.08	1	Not Overloaded	Dewatering	Other WWTP

Changes Since Last Permit Issuance: none

Compliance History

DMR Data for Outfall 001 (from July 1, 2024 to June 30, 2025)

Parameter	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24
Flow (GPD) Average Monthly	54904	48750	37801	50894	63293	55965	45780	41373	35347	45494	51806	47424
pH (S.U.) Instantaneous Minimum	6.8	7.0	6.8	6.8	7.0	6.7	6.7	6.6	6.7	6.6	6.6	6.5
pH (S.U.) Instantaneous Maximum	7.2	7.1	7.1	7.3	7.3	7.2	7.2	7.0	6.9	7.0	6.9	7.0
DO (mg/L) Instantaneous Minimum	7.1	7.1	7.1	7.0	7.2	7.3	7.0	6.9	7.1	7.0	6.7	6.6
TRC (mg/L) Average Monthly	0.002	0.003	0.003	0.001	0.0016	0.0016	0.002	0.002	0.001	0.0003	0.0016	0.0013
TRC (mg/L) Instantaneous Maximum	0.01	0.02	0.02	0.1	0.2	0.01	0.02	0.02	0.01	0.01	0.01	0.01
CBOD5 (lbs/day) Average Monthly	0.92	2.5	0.6	0.85	2.1	1.4	0.8	1.0	0.59	0.8	0.86	0.80
CBOD5 (lbs/day) Raw Sewage Influent Average Monthly	63	25	19	66	38	53	68	50	54	53	75	69
CBOD5 (mg/L) Average Monthly	2	2	2	2	4	3.0	2	3	2	2	2	2
CBOD5 (mg/L) Raw Sewage Influent Average Monthly	137	63	59	155	100	143	147	144	184	146	173	175
TSS (lbs/day) Average Monthly	12	2	2	2	6	4.7	0.2	2.1	0.88	1.5	1.7	1.2
TSS (lbs/day) Raw Sewage Influent Average Monthly	26	18	12	155	25	48	52	40	27	47	86	84
TSS (mg/L) Average Monthly	26	6	6	4	12	10	0.6	6	3	4	4	3

**NPDES Permit Fact Sheet
Richland Meadows MHP**

NPDES Permit No. PA0045187

TSS (mg/L) Raw Sewage Influent Average Monthly	57	45	39	364	60	120	112	116	90	134	198	212
Total Dissolved Solids (mg/L) Average Quarterly	335			286			330			196		
Fecal Coliform (No./100 ml) Geometric Mean	6	24	17	3	72	1	1	1	1	1	1	1
Fecal Coliform (No./100 ml) Instantaneous Maximum	25	550	19	6	137	1	1	1	1	1	1	1
Total Nitrogen (lbs/day) Average Monthly	4.7	9	5.4	6	7	6.1	4.2	4.9	4.9	9.5	7.2	4.6
Total Nitrogen (mg/L) Average Monthly	10	9	17	15	12.5	13.1	10.9	14.3	16.5	25.1	16.6	11.7
Ammonia (lbs/day) Average Monthly	0.15	0.09	0.07	0.07	0.44	0.014	0.02	0.024	0.027	0.10	0.03	0.41
Ammonia (mg/L) Average Monthly	0.12	0.23	0.21	0.16	0.83	0.03	0.04	0.07	0.09	0.27	0.07	1.0
Total Phosphorus (lbs/day) Average Monthly	0.24	0.14	0.08	0.11	0.20	0.12	0.042	0.041	0.032	0.08	0.048	0.08
Total Phosphorus (mg/L) Average Monthly	0.11	0.34	0.25	0.28	0.32	0.26	0.11	0.12	0.11	0.20	0.11	0.21

Compliance History

Development of Effluent Limitations

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.08</u>
Latitude	<u>40° 24' 27.34"</u>	Longitude	<u>-75° 21' 53.13"</u>
Wastewater Description: <u>Sewage Effluent</u>			

The following are the effluent limits:

Parameter	Average Monthly Limits (mg/l)	Basis
CBOD ₅ (05-01 to 10-31)	5	Dry Stream Discharge
CBOD ₅ (11-01 to 04-30)	10	Dry Stream Discharge
Suspended Solids	30	Dry Stream Discharge
Ammonia as N (05-01 to 10-31)	1.0	Dry Stream Discharge
Ammonia as N (11-01 to 04-30)	3.0	Dry Stream Discharge
Phosphorus as P	0.5	TMDL for Lake Nockamixon
Fecal Coliform	200 #/100 ml	DRBC
Dissolved Oxygen	6.0 Minimum	Chapter 92a.47
pH (STD Units)	6.0-9.0 SU at all times	Chapter 92a.47
Total Residual Chlorine	0.2	TRC Spreadsheet
Total Dissolved Solids	Report Ave Qrtly	DRBC
Total Nitrogen	Report	DRBC
Nitrite as N	Report	DRBC
E.Coli	Report Ave. Qrtly	Recent statewide requirement

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 (GPD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	6.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.2	XXX	0.6	1/day	Grab
CBOD5 Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
CBOD5 Nov 1 - Apr 30	6.6	XXX	XXX	10	XXX	20	2/month	24-Hr Composite
CBOD5 May 1 - Oct 31	3.3	XXX	XXX	5	XXX	10	2/month	24-Hr Composite
TSS	20	XXX	XXX	30	XXX	60	2/month	24-Hr Composite
TSS Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	Report Avg Qrtly	XXX	Report	1/quarter	Grab

Outfall 001 , Continued (from 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		
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	2.0	XXX	XXX	3.0	XXX	9	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	0.66	XXX	XXX	1.0	XXX	3	2/month	24-Hr Composite
Total Phosphorus	0.33	XXX	XXX	0.5	XXX	1	2/month	24-Hr Composite

Compliance Sampling Location: Outfall 001



Approve	Deny	Signatures	Date
X		<i>Begay Omuralieva</i> Begay Omuralieva / Environmental Engineering Specialist	August 13, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	08/13/2025