

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

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0222275  
APS ID 1082804  
Authorization ID 1429992

### Applicant and Facility Information

|                           |  |                  |  |
|---------------------------|--|------------------|--|
| Applicant Name            | <u>Beach Glass Estates LLC</u>   | Facility Name    | <u>Beach Glass Estates</u>                                 |
| Applicant Address         | <u>12430 Lake Road</u><br><u>North East, PA 16428-3545</u>                   | Facility Address | <u>12430 Lake Road</u><br><u>North East, PA 16428-3545</u> |
| Applicant Contact         | <u>Norman Hinspeter</u>  | Facility Contact | <u>Norman Hinspeter</u>                                    |
| Applicant Phone           | <u>(239) 851-7663</u>  | Facility Phone   | <u>(239) 851-7663</u>                                      |
| Client ID                 | <u>345213</u>  | Site ID          | <u>464589</u>  |
| Ch 94 Load Status         | <u>Not Overloaded</u>  | Municipality     | <u>North East Township</u>                                 |
| Connection Status         | <u>No Limitations</u>  | County           | <u>Erie</u>  |
| Date Application Received | <u>March 1, 2023</u>   | EPA Waived?      | <u>Yes</u>   |
| Date Application Accepted | <u></u>  | If No, Reason    | <u></u>  |
| Purpose of Application    | <u>NPDES Permit renewal for an existing minor sewage facility discharge.</u> |                  |  |

### Summary of Review

An application was submitted for an NPDES permit renewal for an existing minor sewage facility discharge.

E. Coli monitoring has been added to the permit.

There are currently no open violations listed for this Applicant in WMS as of 3/17/25.

The receiving waters are considered an underground, dry stream with Lake Erie as the point of first use.

Sludge use and disposal description and locations: Disposed off-site without treatment

*A North East Township Act 537 Plan was update was approved on August 23, 2023 that will connect this facility to public sewers. This permit will be terminated upon connection of the facility to public sewers and decommissioning of the treatment plant. JCD*

#### 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.

| Approve | Deny | Signatures  | Date                          |
|---------|------|---|-------------------------------|
| X       |      | Benjamin R. Lockwood<br>Benjamin R. Lockwood / Environmental Engineering Specialist | March 20, 2025                |
|         |      | Adam Olesnanik, P.E. / Environmental Engineer Manager                               | Okay to Draft<br>JCD 4/3/2025 |

| Discharge, Receiving Waters and Water Supply Information |  |                              |                |
|--|--|------------------------------|----------------|
| Outfall No.  | 001                                      | Design Flow (MGD)            | .00528         |
| Latitude   | 42° 15' 56.4"                            | Longitude                    | -79° 46' 11.9" |
| Quad Name  |  | Quad Code                    |                |
| Wastewater Description:                                  |  | Sewage Effluent              |                |
| Receiving Waters   | Unnamed Tributary to Lake Erie (CWF, MF) | Stream Code                  | 62249          |
| NHD Com ID   | 123926005                                | RMI                          | 0.05           |
| Drainage Area  | 0.88 mi <sup>2</sup>                     | Yield (cfs/mi <sup>2</sup> ) | 0.022          |
| Q <sub>7-10</sub> Flow (cfs)                             | 0.0194                                   | Q <sub>7-10</sub> Basis      | StreamStats    |
| Elevation (ft)   | 786                                      | Slope (ft/ft)                |                |
| Watershed No.  | 15-A                                     | Chapter 93 Class.            | CWF, MF        |
| Existing Use   |  | Existing Use Qualifier       |                |
| Exceptions to Use  |  | Exceptions to Criteria       |                |
| Assessment Status  | Attaining Use(s)                         |                              |                |
| 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            | State of New York                        |                              |                |
| PWS Waters   | Lake Erie                                | Flow at Intake (cfs)         |                |
| PWS RMI  |  | Distance from Outfall (mi)   | 0.79           |

Changes Since Last Permit Issuance: None

Other Comments: None

| Treatment Facility Summary                          |                                   |                          |                            |                               |
|---|-----------------------------------|--------------------------|----------------------------|-------------------------------|
| <b>Treatment Facility Name:</b> Lakeview Estate STP |                                   |                          |                            |                               |
| <b>WQM Permit No.</b>                               | <b>Issuance Date</b>              |                          |                            |                               |
| 2591418   | November 17, 1997                 |                          |                            |                               |
|   |                                   |                          |                            |                               |
| <b>Waste Type</b>                                   | <b>Degree of Treatment</b>        | <b>Process Type</b>      | <b>Disinfection</b>        | <b>Avg Annual Flow (MGD)</b>  |
| Sewage  | Secondary                         | Geoform/trickling filter | Ultraviolet                | 0.00528                       |
|   |                                   |                          |                            |                               |
| <b>Hydraulic Capacity (MGD)</b>                     | <b>Organic Capacity (lbs/day)</b> | <b>Load Status</b>       | <b>Biosolids Treatment</b> | <b>Biosolids Use/Disposal</b> |
| 0.00528   | 10.9                              | Not Overloaded           |                            |                               |

Changes Since Last Permit Issuance: The existing 0.00528 MGD treatment system was permitted in 1997, and consists of wastewater flow to septic tank, rotating Geoform Air adding tanks, clarifier with alum addition for phosphorus control, ultraviolet light disinfection, and Outfall 001 to unnamed tributary to Lake Erie.

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

| Parameter  | JAN-25 | DEC-24 | NOV-24  | OCT-24  | SEP-24  | AUG-24  | JUL-24 | JUN-24 | MAY-24  | APR-24 | MAR-24 | FEB-24 |
|--|--------|--------|---------|---------|---------|---------|--------|--------|---------|--------|--------|--------|
| Flow (MGD)<br>Average Monthly                    | 0.0001 | 0.0001 | 0.0001  | 0.0001  | 0.001   | 0.0001  | 0.0001 | 0.0001 | 0.0001  | 0.0001 | 0.0001 | 0.0001 |
| pH (S.U.)<br>Instantaneous<br>Minimum            | 7.3    | 7.5    | 7.2     | 6.9     | 6.9     | 7.0     | 7.4    | 7.0    | 7.2     | 7.1    | 7.3    | 7.2    |
| pH (S.U.)<br>Instantaneous<br>Maximum            | 7.3    | 7.5    | 7.2     | 6.9     | 6.9     | 7.0     | 7.4    | 7.0    | 7.2     | 7.1    | 7.3    | 7.2    |
| DO (mg/L)<br>Instantaneous<br>Minimum            | 7.9    | 10.2   | 8.2     | 7.4     | 7.2     | 6.5     | 7.6    | 6.2    | 7.1     | 6.3    | 5.9    | 7.3    |
| CBOD5 (mg/L)<br>Average Monthly                  | < 3.0  | 4.0    | < 2.0   | < 2.4   | < 2.4   | < 2.4   | < 3.0  | 2.0    | < 2.4   | < 2.4  | < 2.4  | 2.4    |
| TSS (mg/L)<br>Average Monthly                    | 3.0    | 5.0    | 2.5     | < 2.5   | 7.5     | 4.0     | 4.4    | 4.0    | < 2.5   | 2.5    | < 2.5  | < 2.5  |
| Fecal Coliform<br>(No./100 ml)<br>Geometric Mean | 1      | 2.0    | < 1.0   | 2420    | 2.0     | 10.9    | 12.2   | < 1    | 1.0     | < 1    | 1      | 8.5    |
| Total Nitrogen (mg/L)<br>Average Monthly         | 4.834  | 5.523  | < 6.122 | < 3.776 | < 5.773 | < 5.124 | < 12.9 | 4.183  | < 5.916 | 7.469  | 1.594  | 2.1756 |
| Ammonia (mg/L)<br>Average Monthly                | < 0.1  | 0.2    | < 0.1   | < 0.1   | < 0.1   | < 0.1   | 0.2    | < 0.1  | < 0.1   | < 0.1  | 0.1    | 0.18   |
| Total Phosphorus<br>(mg/L)<br>Average Monthly    | 0.5    | 0.4    | 0.5     | 0.6     | 0.5     | 0.5     | 0.9    | 0.5    | 0.2     | 0.6    | 0.2    | 0.2    |

**Development of Effluent Limitations**

Outfall No. 001  
Latitude 42° 15' 56.4"  
Wastewater Description: Sewage Effluent

Design Flow (MGD) .00528  
Longitude -79° 46' 11.9"

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

| Pollutant                    | Limit (mg/l)    | SBC             | Federal Regulation | State Regulation |
|------------------------------|-----------------|-----------------|--------------------|------------------|
| CBOD <sub>5</sub>            | 25              | Average Monthly | 133.102(a)(4)(i)   | 92a.47(a)(1)     |
|                              | 40              | Average Weekly  | 133.102(a)(4)(ii)  | 92a.47(a)(2)     |
| Total Suspended Solids       | 30              | Average Monthly | 133.102(b)(1)      | 92a.47(a)(1)     |
|                              | 45              | Average Weekly  | 133.102(b)(2)      | 92a.47(a)(2)     |
| pH                           | 6.0 – 9.0 S.U.  | Min – Max       | 133.102(c)         | 95.2(1)          |
| Fecal Coliform (5/1 – 9/30)  | 200 / 100 ml    | Geo Mean        | -                  | 92a.47(a)(4)     |
| Fecal Coliform (5/1 – 9/30)  | 1,000 / 100 ml  | IMAX            | -                  | 92a.47(a)(4)     |
| Fecal Coliform (10/1 – 4/30) | 2,000 / 100 ml  | Geo Mean        | -                  | 92a.47(a)(5)     |
| Fecal Coliform (10/1 – 4/30) | 10,000 / 100 ml | IMAX            | -                  | 92a.47(a)(5)     |
| Total Residual Chlorine      | 0.5             | Average Monthly | -                  | 92a.48(b)(2)     |
| DO                           | 4 – mg/L        |                 |                    |                  |
| E. Coli                      | Report          | IMAX            |                    | 92a.61           |

Comments: A minimum DO limit of 4.0 mg/l is applied based on BPJ per DEP's SOP BCW-PMT-033.

Weekly average CBOD<sub>5</sub> and TSS limits are not applicable to non-POTW discharges.

E. Coli monitoring has been added per Chapter 92 requirements.

**Water Quality-Based Limitations**

This facility discharges to a channelized dry underground stream; the point of first use is Lake Erie. No water quality based analysis will be performed; this is consistent with the previous fact sheet. Nitrogen and Phosphorus monitoring are required per DEP's SOP, and the existing Phosphorus limit from the existing permit will be retained.

**Best Professional Judgment (BPJ) Limitations**

Comments: Ultraviolet light monitoring reporting in the existing NPDES permit consists of 1/day visual inspections. This was included due to the fact that this is a very small treatment facility and electric monitoring costs are excessive. This recommendation of a daily visual inspection for UV will be continued; this is not provided as an option in WMS.

**Anti-Backsliding**

Pursuant to 40 CFR § 122.44(l)(1), all proposed permit requirements addressed in this fact sheet are at least as stringent as the requirements implemented in the existing NPDES permit.

**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) <sup>(1)</sup> |                   | Concentrations (mg/L) |                    |         |                     | Minimum <sup>(2)</sup><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|   | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Average<br>Monthly | Maximum | Instant.<br>Maximum |  |                            |
| Flow (MGD)                                    | Report                              | XXX               | XXX                   | XXX                | XXX     | XXX                 | 1/month  | Measured                   |
| pH (S.U.)                                     | XXX                                 | XXX               | 6.0<br>Inst Min       | XXX                | XXX     | 9.0                 | 1/month  | Grab                       |
| DO  | XXX                                 | XXX               | 4.0<br>Inst Min       | XXX                | XXX     | XXX                 | 1/month  | Grab                       |
| CBOD5   | XXX                                 | XXX               | XXX                   | 25.0               | XXX     | 50.0                | 1/month  | 8-Hr<br>Composite          |
| TSS   | XXX                                 | XXX               | XXX                   | 30.0               | XXX     | 60.0                | 1/month  | 8-Hr<br>Composite          |
| Fecal Coliform (No./100 ml)<br>Oct 1 - Apr 30 | XXX                                 | XXX               | XXX                   | 2000<br>Geo Mean   | XXX     | 10000               | 1/month  | Grab                       |
| Fecal Coliform (No./100 ml)<br>May 1 - Sep 30 | XXX                                 | XXX               | XXX                   | 200<br>Geo Mean    | XXX     | 1000                | 1/month  | Grab                       |
| E. Coli (No./100 ml)                          | XXX                                 | XXX               | XXX                   | XXX                | XXX     | Report              | 1/year   | Grab                       |
| Total Nitrogen                                | XXX                                 | XXX               | XXX                   | Report             | XXX     | XXX                 | 1/month  | 8-Hr<br>Composite          |
| Ammonia                                       | XXX                                 | XXX               | XXX                   | Report             | XXX     | XXX                 | 1/month  | 8-Hr<br>Composite          |
| Total Phosphorus                              | XXX                                 | XXX               | XXX                   | 1.0                | XXX     | XXX                 | 1/month  | 8-Hr<br>Composite          |
| Ultraviolet Light                             | XXX                                 | XXX               | XXX                   | Report             | XXX     | XXX                 | 1/day  | Visual                     |

Compliance Sampling Location: Outfall 001 after disinfection  
Other Comments: None