

Application Type

Renewal

Facility Type

Non-Municipal

Major / Minor

Minor

Application No.

PA0051802

APS ID

1126225

Authorization ID

1507411

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Applicant and Facility Information

| | | | |
|---------------------------|------------------------|------------------|---------------------------|
| Applicant Name | Gravel 38 LLC | Facility Name | Gravel 38 LLC |
| Applicant Address | 2620 Egypt Road | Facility Address | 668 Gravel Pike |
| | Audubon, PA 19403-2302 | | East Greenville, PA 18041 |
| Applicant Contact | Todd Mcfarland | Facility Contact | Todd McFarland |
| Applicant Phone | (610) 960-5573 | Facility Phone | (610) 960-5573 |
| Client ID | 336752 | Site ID | 885 |
| Ch 94 Load Status | Not Overloaded | Municipality | Upper Hanover Township |
| Connection Status | | County | Montgomery |
| Date Application Received | October 30, 2024 | EPA Waived? | Yes |
| Date Application Accepted | | If No, Reason | |
| Purpose of Application | Permit Renewal. | | |

Summary of Review

The permittee (Gravel 38 LLC) has submitted renewal of NPDES application to discharge 8500 gpd of treated sewage into unnamed tributary (UNT) to Perkiomen Creek from the facility located in Upper Hanover Township, Montgomery County. Previous Industrial NPDES permit had total wastewater flow of 14,000 gpd including 3,000 gpd of treated process water from a commercial printing process, 8,500 gpd of sanitary wastewater, and 2,500 gpd of cooling tower blow down. The applicant had applied to change the facility status from industrial waste to minor sewage due to change in operations at the facility during last permit renewal. As there is no industrial wastewater generated at the facility, we had changed applicant's industrial NPDES permit to minor sewage NPDES permit.

There are currently nine tenants at Gravel 38 LLC. Office space is also rented. There are approximately 95 personnel onsite. The majority of tenants such as PLCB, Knoll, Suite 200, Arrowhead, All Balls, Stens, Sak Logistics and Suite 200 currently use their spaces for warehousing. Owl Electronic Recycling recycle electronic components inside the warehouse. Off The Wall, a tenant does storage and assembly on-site and Vertec, who produces a form backed tape product. The facility has outfall 001 for discharge of treated sewage and outfall 002 and outfall 003 for discharge of stormwater from retention basins no. 2 and no.3 respectively. We have included sector specific BMPs for Appendix P of PAG-03 for discharge of stormwater from the facility in this permit renewal. We have also revised stormwater monitoring frequency to semi-annual from 1/year and added monitoring for Aluminum, Total Phosphorus and Total Nitrogen based on new Appendix P from PAG-03 for Outfall 002 and Outfall 003. Tenant waste dumpsters are lidded or enclosed at the site. Scrap metals, wood pellets, and recyclables may be in open top container at facility.

The treatment plant consists of bar screen, flow equalization basin, fine screen, anoxic basin, pre-aeration basin, membrane bioreactor basin (MBR), UV disinfection, effluent clear well basin, and sludge holding tanks. The wastewater is currently being pumped and hauled off-site to Pottstown STP due to the low flows. This permit renewal includes effluent limits for sewage for outfall 001. Mass limits are based on the sewage flow of 8500 gpd. Effluent limits for Dissolved Oxygen were tightened to 4.0 mg/l from 3.0 mg/l during last permit renewal. Sanitary wastewater from the site continues to be held in the

| Approve | Deny | Signatures | Date |
|---------|------|---|------------|
| X | | <i>Ketan Thaker</i> Ketan Thaker / Project Manager | 2/7/2025 |
| X | | <i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager | 02/07/2025 |

Summary of Review

influent EQ tank and pumped and hauled offsite by United Site Services to Pottstown STP. There is no discharge of wastewater from Outfall 001 for several years. Effluent limits for all parameters will remain same for this permit renewal.

Following are effluent limits:

| PARAMETERS | EFFLUENT LIMITS (Av. Mo) (mg/l) | BASIS |
|-----------------------------|---------------------------------|--------------------------|
| CBOD5 (5/1 to 10/31) | 15 | WQM Model |
| CBOD5 (11/1 to 4/30) | 25 | WQM Model |
| Total Suspended Solids | 30 | 25 Pa Code 92a.47 |
| Ammonia as N (5/1 to 10/31) | 1.5 | WQM Model |
| Ammonia as N (11/1 to 4/30) | 4.5 | WQM Model |
| pH (STD Units) | 6.0 – 9.0 at all times | 25 Pa Code 92a.47 |
| UV Intensity | Report | SOP |
| Dissolved Oxygen | 4.0 | BPJ |
| Total Phosphorus | 0.5 | TMDL for Green Lane Lake |
| Total Nitrogen | Report | 25 Pa Code 92a.61 |
| Fecal Coliform (#/100 ml) | 200 #/100 ml | 25 Pa Code 92a.47 |

Act-14 Notice to Upper Hanover Township on October 9, 2024.

Act-14 Notice to Montgomery County Planning Commission on October 9, 2024.

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. | 001 | Design Flow (MGD) | 0.0085 |
| Latitude | 40° 25' 2.86" | Longitude | -75° 31' 2.65" |
| Quad Name | East Greenville | Quad Code | 1541 |
| Wastewater Description: | Sewage Effluent | | |

| | | | |
|------------------------------|--|------------------------------|---------|
| Receiving Waters | Unnamed Tributary to Perkiomen Creek (TSF, MF) | Stream Code | 01472 |
| NHD Com ID | 25971626 | RMI | 0.26 |
| Drainage Area | 0.32 | Yield (cfs/mi ²) | 0.194 |
| Q ₇₋₁₀ Flow (cfs) | 0.064 | Q ₇₋₁₀ Basis | |
| Elevation (ft) | | Slope (ft/ft) | |
| Watershed No. | 3-E | Chapter 93 Class. | TSF, 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 | |
| PWS Waters | Flow at Intake (cfs) |
| PWS RMI | Distance from Outfall (mi) |

Discharge, Receiving Waters and Water Supply Information

| | | | |
|---|--|------------------------------|----------------|
| Outfall No. | 002 | Design Flow (MGD) | 0 |
| Latitude | 40° 25' 2.99" | Longitude | -75° 31' 2.55" |
| Quad Name | | Quad Code | |
| Wastewater Description: | Stormwater | | |
| Receiving Waters | Unnamed Tributary to Perkiomen Creek (TSF, MF) | Stream Code | 01472 |
| NHD Com ID | 25971626 | RMI | 0.1600 |
| Drainage Area | | Yield (cfs/mi ²) | |
| Q ₇₋₁₀ Flow (cfs) | | Q ₇₋₁₀ Basis | |
| Elevation (ft) | | Slope (ft/ft) | |
| Watershed No. | 3-E | Chapter 93 Class. | TSF, 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 | | | |
| PWS Waters | | Flow at Intake (cfs) | |
| PWS RMI | | Distance from Outfall (mi) | |

Discharge, Receiving Waters and Water Supply Information

| | | | |
|---|--|------------------------------|-----------------|
| Outfall No. | 003 | Design Flow (MGD) | 0 |
| Latitude | 40° 24' 47.29" | Longitude | -75° 31' 16.38" |
| Quad Name | | Quad Code | |
| Wastewater Description: | Stormwater | | |
| Receiving Waters | Unnamed Tributary to Perkiomen Creek (TSF, MF) | Stream Code | 01472 |
| NHD Com ID | 25971626 | RMI | 0.4200 |
| Drainage Area | | Yield (cfs/mi ²) | |
| Q ₇₋₁₀ Flow (cfs) | | Q ₇₋₁₀ Basis | |
| Elevation (ft) | | Slope (ft/ft) | |
| Watershed No. | 3-E | Chapter 93 Class. | TSF, 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 | | | |
| PWS Waters | | Flow at Intake (cfs) | |
| PWS RMI | | Distance from Outfall (mi) | |

| Treatment Facility Summary | | | | |
|---|----------------------------|----------------------|---------------------|------------------------|
| Treatment Facility Name: Gravel 38 LLC | | | | |
| WQM Permit No. | | Issuance Date | | |
| 4612202 | | 6/14/2022 | | |
| Waste Type | Degree of Treatment | Process Type | Disinfection | Avg Annual Flow (MGD) |
| Sewage | | Ext Aeration | Ultraviolet | 0.014 |
| Hydraulic Capacity (MGD) | Organic Capacity (lbs/day) | Load Status | Biosolids Treatment | Biosolids Use/Disposal |
| 0.017 | 29 | Not Overloaded | Aerobic Digestion | Landfill |

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 | Daily Minimum | Average Monthly | Maximum | Instant. Maximum | | |
| Flow (GPD) | Report | Report Daily Max | XXX | XXX | XXX | XXX | Continuous | Measured |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | 1/day | Grab |
| DO | XXX | XXX | 4.0 Inst Min | XXX | XXX | XXX | 1/week | Grab |
| CBOD5 Nov 1 - Apr 30 | 1.8 | XXX | XXX | 25.0 | XXX | 50 | 1/month | 24-Hr Composite |
| CBOD5 May 1 - Oct 31 | 1.0 | XXX | XXX | 15.0 | XXX | 30 | 1/month | 24-Hr Composite |
| TSS | 2.1 | XXX | XXX | 30.0 | XXX | 60 | 1/month | 24-Hr Composite |
| Fecal Coliform (No./100 ml) Oct 1 - Apr 30 | XXX | XXX | XXX | 200.0 Geo Mean | XXX | 1000.0 | 1/month | Grab |
| Fecal Coliform (No./100 ml) May 1 - Sep 30 | XXX | XXX | XXX | 200.0 Geo Mean | XXX | 1000.0 | 1/month | Grab |
| UV Transmittance (%) | XXX | XXX | Report | XXX | XXX | XXX | 1/day | Metered |
| Total Nitrogen | XXX | XXX | XXX | Report | XXX | XXX | 1/month | 24-Hr Composite |
| Ammonia Nov 1 - Apr 30 | 0.32 | XXX | XXX | 4.5 | XXX | 9 | 1/month | 24-Hr Composite |
| Ammonia May 1 - Oct 31 | 0.11 | XXX | XXX | 1.5 | XXX | 3 | 1/month | 24-Hr Composite |
| Total Phosphorus | 0.035 | XXX | XXX | 0.5 | XXX | 1.25 | 1/month | 24-Hr Composite |

Proposed Effluent Limitations and Monitoring Requirements

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Outfall 002, 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 | Daily Maximum | Instant. Maximum | | |
| COD | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Oil and Grease | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Calculation |
| Total Phosphorus | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Aluminum | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Copper | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Lead | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Zinc | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |

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 003, 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 | Daily Maximum | Instant. Maximum | | |
| COD | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Oil and Grease | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Nitrogen | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Calculation |
| Total Phosphorus | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Aluminum | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Copper | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Lead | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |
| Total Zinc | XXX | XXX | XXX | XXX | Report | XXX | 1/6 months | Grab |



| Approve | Deny | Signatures | Date |
|---------|------|---|------------|
| X | | <i>Ketan Thaker</i> Ketan Thaker / Project Manager | 2/7/2025 |
| X | | <i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager | 02/07/2025 |