

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0051802
APS ID 1126225
Authorization ID 1507411

Applicant and Facility Information

Applicant Name <u>Gravel 38 LLC</u>	Facility Name <u>Gravel 38 LLC</u>
Applicant Address <u>2620 Egypt Road</u> <u>Audubon, PA 19403-2302</u>	Facility Address <u>668 Gravel Pike</u> <u>East Greenville, PA 18041</u>
Applicant Contact <u>Todd McFarland</u>	Facility Contact <u>Todd McFarland</u>
Applicant Phone <u>(610) 960-5573</u>	Facility Phone <u>(610) 960-5573</u>
Client ID <u>336752</u>	Site ID <u>885</u>
Ch 94 Load Status <u>Not Overloaded</u>	Municipality <u>Upper Hanover Township</u>
Connection Status <u></u>	County <u>Montgomery</u>
Date Application Received <u>October 30, 2024</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 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 Verttec, 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.	<u>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 25' 2.99"</u>	Longitude	<u>-75° 31' 2.55"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>Unnamed Tributary to Perkiomen Creek (TSF, MF)</u>	Stream Code	<u>01472</u>
NHD Com ID	<u>25971626</u>	RMI	<u>0.1600</u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u></u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>3-E</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>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></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>

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/mi²)	
Q7-10 Flow (cfs)		Q7-10 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

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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

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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