pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0051802**
Facility Type	**Non-Municipal**	APS ID	**998095**
Major / Minor	**Minor**	Authorization ID	**1281645**

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	John Neilson	Facility Contact	Todd Mcfarland
Applicant Phone	(610) 631-1900	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	July 2, 2019	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Permit Renewal formerly Industrial now Sewage.

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 has applied to change the facility status from industrial waste to minor sewage due to change in operations at the facility. As there is no industrial wastewater generated at the facility, we change applicant's industrial NPDES permit to minor sewage NPDES permit.

There are currently nine tenants and one vacancy 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. 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.

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. We have removed Total Dissolved Solids, Oil & Grease, and Total Copper from this permit renewal as there is no industrial wastewater generated at the facility. This permit renewal includes effluent limits for sewage for outfall 001. We have included monitoring requirement for Total Nitrogen for this permit renewal and is consistent with SOP. Mass limits are based on the sewage flow of 8500 gpd. Effluent limits for Dissolved Oxygen are tightened to 4.0 mg/l from 3.0 mg/l.

Approve	Deny	Signatures	Date
		Ketan Thaker / Project Manager	
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

Summary of Review

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 Notifications to Upper Hanover Township and Montgomery County on June 21, 2019.

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)	.0085
Latitude	40Âº 25' 2.86"	Longitude	-75Âº 31' 2.65"
Quad Name		Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Perkiomen Creek (TSF, MF)	Stream Code	
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)	

Changes Since Last Permit Issuance:

Other Comments:

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	40Âº 25' 2.99"	Longitude	-75Âº 31' 2.55"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to Perkiomen Creek (TSF, MF)	Stream Code	
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	40Âº 24' 47.29"	Longitude	-75Âº 31' 16.38"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to Perkiomen Creek (TSF, MF)	Stream Code	
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				
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage			Ultraviolet	
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
		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" (362-0400-001), 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 Intensity (mW/cm²)	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	Daily Maximum	Maximum	Instant. Maximum		
COD	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Copper	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Lead	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	Report	XXX	XXX	1/year	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	Daily Maximum	Maximum	Instant. Maximum		
COD	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Copper	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Total Lead	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab