

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0064297
APS ID 635189
Authorization ID 1252472

Applicant and Facility Information

Applicant Name	<u>Portland Borough</u>	Facility Name	<u>Portland Borough WWTP</u>
Applicant Address	<u>206 Division Street, P.O. Box 476</u> <u>Portland, PA 18351-0476</u>	Facility Address	<u>Demi Road</u> <u>Portland, PA 18351</u>
Applicant Contact	<u>Stephanie Steele,</u> <u>Borough Council President</u>	Facility Contact	<u>Craig LaBarre, President</u>
Applicant Phone	<u>(570) 897-0559</u>	Facility Phone	<u>(570) 897-7474</u>
Client ID	<u>207209</u>	Site ID	<u>611842</u>
Ch 94 Load Status	<u>-</u>	Municipality	<u>Portland Borough</u>
Connection Status	<u>-</u>	County	<u>Northampton</u>
Date Application Received	<u>November 5, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 30, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of existing NPDES permit to discharge treated sewage.</u>		

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge 0.105 MGD of treated sewage to the Delaware River, a warm-water, migratory fish (WWF,MF) designated receiving water in state water plan basin 1-F (Jacoby – Bushkill Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH are technology-based and carried over from the previous permit. Limitations for Dissolved Oxygen (DO), Total Suspended Solids (TSS), CBOD₅, Fecal Coliform, Ammonia-Nitrogen, Total Nitrogen, and Total Phosphorous are water quality-based and carried over from the previous permit. Monitoring and reporting for Nitrate-Nitrite as N and Total Kjeldahl Nitrogen also continues in this permit.

The previously issued permit did not contain Total Residual Chlorine (TRC) limitations since the WWTP utilizes ultraviolet light for disinfection. In the event the facility uses chlorine for cleaning purposes or as a back-up disinfection option, an IMAX technology-based limitation (1.6 mg/L) is added to the permit and is to be sampled "daily when discharging" (see requirements under Part C.I.D). WQM 7.0 modeling did not recommend stricter limits.

The latest DRBC Preliminary Docket No. D-2003-009 CP-4 includes monitoring/reporting for 85% minimum CBOD₅ Percent Removal, monitoring/reporting for 85% minimum Total Suspended Solids Percent Removal, and monitoring/ reporting for Total Dissolved Solids with a 1,000 mg/L limit. These limitations are carried over from the previous permit. Monitoring/reporting for CBOD₅ of the raw sewage influent has been added for the calculation of percent removal of CBOD₅.

For this permit renewal, all monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

Approve	Deny	Signatures	Date
X		Allison Seyfried / Environmental Engineering Specialist	June 4, 2019
X		Amy M. Bellanca, P.E. / Environmental Engineer Manager	June 4, 2019

Summary of Review

RMI values for modeling inputs were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool in StreamStats. More stringent limitations were not recommended in WQM modeling or the TRC Calculation Spreadsheet.

As per the permit renewal application, sludge is stored onsite in two drying beds and the first emptying of the beds is scheduled for 2019. Grit and screenings from headworks are taken to Grand Central Landfill in Plainfield Township, Northampton County, PA.

The previously issued permit expired on April 30, 2019 and the application for permit renewal was not submitted on time. A Water Management System Inspection query was run and indicated that on 7/9/2018 a Compliance Evaluation was performed. There are no open violations for this client that warrant withholding issuance of this permit.



Watershed Info -
Portland Borough.p



WQM Modeling -
Portland Borough.p



TRC_CALC -
Portland Borough.p



DRBC Docket
2003-009 CP-4.pdf

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)	0.105
Latitude	40° 55' 6.94"	Longitude	-75° 5' 18.19"
Quad Name	Portland	Quad Code	1145
Wastewater Description: Sewage Effluent			
Receiving Waters	Delaware River (WWF)	Stream Code	2
NHD Com ID	26051736	RMI	132.1
Drainage Area	4,360 mi ²	Yield (cfs/mi ²)	0.225
Q7-10 Flow (cfs)	982	Q7-10 Basis	StreamStats
Elevation (ft)	264	Slope (ft/ft)	0.0007
Watershed No.	1-F	Chapter 93 Class.	CWF
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	-
Nearest Downstream Public Water Supply Intake	Easton Area Water System		
PWS Waters	Delaware River	Flow at Intake (cfs)	-
PWS RMI	110.4	Distance from Outfall (mi)	~ 21.7

Treatment Facility Summary				
Treatment Facility Name: Portland Borough WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Membrane Bioreactor	Ultraviolet (UV)	0.027
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.105	219	-	Drying Beds	Hauled

Development of Effluent Limitations

Outfall No. 001 Design Flow (MGD) 0.105
 Latitude 40° 55' 4.00" Longitude -75° 5' 16.00"
 Wastewater Description: Sewage Effluent

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
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Total Residual Chlorine	1.6	IMAX	-	92a.48(b)(2)

Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
CBOD ₅	10.0	Average Monthly	Previous Modeling
	20.0	IMAX	
Total Suspended Solids	10.0	Average Monthly	
	20.0	IMAX	
Fecal Coliform	50.0 / 100 ml	Average Monthly	
	250 / 100 ml	IMAX	
Ammonia-Nitrogen	1.5	Average Monthly	
	3.0	IMAX	
Dissolved Oxygen	6.0	Minimum	
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	Average Monthly	
Total Suspended Solids Raw Sewage Influent	Report	Average Monthly	
Total Nitrogen	10.0	Average Monthly	
	20.0	IMAX	
Total Phosphorus	2.0	Average Monthly	
	4.0	IMAX	
CBOD5 Minimum % Removal (%)	85%	Minimum	DRBC Docket
Total Suspended Solids Minimum % Removal (%)	85%	Minimum	
Total Dissolved Solids	1,000	IMAX	

Anti-Backsliding

No limitations were made less stringent.