

Application Type Amendment, Major  
Facility Type Non-Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0041645 A-1  
APS ID 993959  
Authorization ID 1274504

**Applicant and Facility Information**

Applicant Name	<u>PA DOT Maintenance &amp; Operations Bureau</u>	Facility Name	<u>PA DOT Rest Area L</u>
Applicant Address	<u>400 North Street 6th Floor Harrisburg, PA 17120</u>	Facility Address	<u>I-90 East Springfield, PA 16411</u>
Applicant Contact	<u>Nicholaus Sahd</u>	Facility Contact	<u>Roderick Donghia – Contract Operator</u>
Applicant Phone	<u>(717) 951-8685</u>	Facility Phone	<u>(724) 813-8838</u>
Client ID	<u>189304</u>	Site ID	<u>453007</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Springfield Township</u>
Connection Status		County	<u>Erie</u>
Date Application Received	<u>May 15, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>June 5, 2019</u>	If No, Reason	
Purpose of Application	<u>Permit amendment to extend the compliance date to meet the final summertime ammonia nitrogen effluent limit.</u>		

**Summary of Review**

As a result of the Toxic Reduction Evaluation (TRE) done for new, more-stringent ammonia nitrogen limits that were placed in the existing, renewed permit, the permittee has decided to construct a new treatment plant in order to meet the new summertime ammonia nitrogen effluent limit.

The permittee requested that the NPDES Permit be amended to extend the summertime ammonia nitrogen final effluent limit till May 1, 2022, in order to allow for the design, permitting and construction work associated with the WWTP upgrade. However, the time to meet new Water Quality Based Effluent Limits (WQBELs) can't exceed five years without being granted a Chapter 95.4 time extension, which this facility does not qualify for in this scenario. Therefore, this permit amendment proposes to extend the summertime ammonia nitrogen effluent limit to November 1, 2021.

The permittee's name is also being changed as part of this permit renewal. A transfer application was not deemed necessary for this name change.

This is a major amendment because the compliance schedule proposes to move the compliance date for final effluent limit attainment.

There are currently three open violations for the permittee in EFACTs related to storage tank violations at other facilities (11/04/2019).

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.

Approve	Deny	Signatures	Date
X		Adam J. Pesek, E.I.T. / Environmental Engineering Specialist	
X		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0066</u>
Latitude	<u>41° 56' 33.27"</u>	Longitude	<u>-80° 28' 31.16"</u>
Quad Name	<u>East Springfield</u>	Quad Code	<u>01024</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Turkey Creek</u>	Stream Code	<u>62705</u>
NHD Com ID	<u>123922026</u>	RMI	<u>5.31</u>
Drainage Area	<u>0 (dry); 0.69 (perennial)</u>	Yield (cfs/mi <sup>2</sup> )	<u>0 (dry); 0.01812 (perennial)</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0 (dry); 0.0125 (perennial)</u>	Q <sub>7-10</sub> Basis	<u>Dry Stream/USGS Streamstats</u>
Elevation (ft)	<u>712</u>	Slope (ft/ft)	<u>0.00271</u>
Watershed No.	<u>15-A</u>	Chapter 93 Class.	<u>CWF, 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>7.0</u>	Default	<u></u>
Temperature (°C)	<u>20</u>	Default (CWF)	<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Lake Erie</u>		
PWS Waters	<u>Lake Erie</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>4.45</u>

Changes Since Last Permit Issuance:

Other Comments:

Compliance History

DMR Data for Outfall 001 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
Flow (MGD) Average Monthly	0.0029	0.0038	0.0038	0.0026	0.0024	0.0013	0.0013	0.0014	0.0013	0.0018	0.0021	0.0020
Flow (MGD) Daily Maximum	0.0033	0.0040	0.0045	0.0027	0.0027	0.0014	0.0016	0.0015	0.0014	0.0020	0.0024	0.0022
pH (S.U.) Minimum	7.1	7.1	6.9	7.0	7.1	7.0	7.0	6.7	7.0	6.7	6.8	6.9
pH (S.U.) Maximum	7.5	7.4	7.5	7.5	7.5	7.4	7.5	7.4	7.5	7.4	7.5	7.8
DO (mg/L) Minimum	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.0
TRC (mg/L) Average Monthly	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
TRC (mg/L) Instantaneous Maximum	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
CBOD5 (mg/L) Average Monthly	5.0	5.0	4.0	5.0	5.0	4.0	5.0	3.0	5.0	5.0	4.0	4.0
TSS (mg/L) Average Monthly	19.0	18.0	19.0	20.0	20.0	19.0	20.0	20.0	20.0	20.0	20.0	19.0
Fecal Coliform (CFU/100 ml) Geometric Mean	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Nitrogen (mg/L) Annual Average										15.1		
Ammonia (mg/L) Average Monthly	4.3	4.4	4.0	4.4	4.4	14.1	4.1	4.1	4.1	4.1	4.3	4.4
Total Phosphorus (mg/L) Average Monthly	0.9	0.9	0.8	0.9	0.8	0.9	0.6	0.9	0.3	0.8	0.8	0.8

**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: November 1, 2021 through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Ammonia May 1 - Oct 31	XXX	XXX	XXX	5.0	XXX	10	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001 (after disinfection)

Other Comments:

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**Outfall 001, Effective Period: Permit Effective Date through October 31, 2021.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Ammonia May 1 - Oct 31	XXX	XXX	XXX	6.5	XXX	13	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001 (after disinfection)

Other Comments:

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**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> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	4/week	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	4/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	4/week	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	8-Hr Composite
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	15.0	XXX	30	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	1.0	XXX	XXX	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001 (after disinfection)

Other Comments:

