

Application Type	DEP-Initiated Major Amendment	NPDES PERMIT FACT SHEET	Application No.	PA0114049
Facility Type	_____		APS ID	1055018
Major / Minor	Minor		Authorization ID	1382102

Applicant and Facility Information			
Applicant Name	<u>Lewis Township Municipal Authority</u>	Facility Name	<u>Lewis Township STP</u>
Applicant Address	<u>PO Box 51 Millmont, PA 17845-0051</u>	Facility Address	<u>1599 Millmont Road Millmont, PA 17845</u>
Applicant Contact	<u>Donald Shively</u>	Facility Contact	_____
Applicant Phone	<u>(570) 922-4102</u>	Facility Phone	_____
Client ID	<u>44027</u>	Site ID	<u>1186</u>
SIC Code	<u>4952</u>	Municipality	<u>Lewis Township</u>
SIC Description	<u>Trans. & Utilities - Sewerage Systems</u>	County	<u>Union</u>
Date Published in PA Bulletin	<u>Not yet Published</u>	EPA Waived?	<u>Yes</u>
Comment Period End Date	<u>Not yet published</u>	If No, Reason	_____
Purpose of Application	<u>DEP initiated amendment to NPDES PA0114049</u>		

Internal Review and Recommendations												
<p>On October 28, 2021, the Department issued a renewal/amendment NPDES permit (PA0114049) for the Lewis Township Sewage Treatment Plant (STP) that serves Lewis Township in Union County. The permit was effective on 11/1/2021. The amended/renewal permit contained nutrient limitations in accordance with the Department's Chesapeake Bay Tributary Strategy. However, the Department has identified an error that occurred in calculating the effluent net load limitations for total nitrogen and total phosphorus. Thus, the Department has initiated a DEP self-amendment to correct the calculations errors (described below). For a complete description of the Lewis Township STP, please review NPDES PA0114049, and its associated review, that was issued on October 28, 2022.</p> <p>According to the Department's Supplement to the Phase 3 Chesapeake Bay Watershed Implementation Plan (WIP), the facility is classified as a Phase 5 bay discharger (>0.002 MGD and <0.2 MGD). Per page 19 of the Chesapeake Bay Phase 3 WIP, since the facility is proposed to expand flow from 0.0335 MGD to 0.044 MGD, cap loads were required. Per the WIP, if Phase 5 facilities choose to expand, the renewed or amended permits will contain Cap Loads based on the lesser of a) existing TN/TP concentrations at <i>current</i> design average annual flow or b) 7,306 lbs/yr TN and 974 lbs/yr TP.</p> <p>Since the proposed upgraded facility has not yet been constructed, there are not any accurate sampling results for TN and TP at this time. Therefore, per the WIP, default values of 25 mg/l for TN and 4 mg/l were used to calculate the above scenario (a). However, the Department unintentionally used the proposed increased designed flow of 0.044 MGD instead of the existing design flow of 0.0335 MGD. The following is a table showing each scenario:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">Parameter</th> <th style="width: 30%;">Existing Permit (at 0.044 MGD)</th> <th style="width: 30%;">Option A (at 0.0335MGD)</th> <th style="width: 25%;">Option B</th> </tr> </thead> <tbody> <tr> <td>Total Nitrogen</td> <td>3,348 lbs/year</td> <td>2549 lbs/year</td> <td>7,306 lbs/year</td> </tr> <tr> <td>Total Phosphorus</td> <td>535 lbs/year</td> <td>407 lbs/year</td> <td>974 lbs/year</td> </tr> </tbody> </table>	Parameter	Existing Permit (at 0.044 MGD)	Option A (at 0.0335MGD)	Option B	Total Nitrogen	3,348 lbs/year	2549 lbs/year	7,306 lbs/year	Total Phosphorus	535 lbs/year	407 lbs/year	974 lbs/year
Parameter	Existing Permit (at 0.044 MGD)	Option A (at 0.0335MGD)	Option B									
Total Nitrogen	3,348 lbs/year	2549 lbs/year	7,306 lbs/year									
Total Phosphorus	535 lbs/year	407 lbs/year	974 lbs/year									

Approve	Return	Deny	Signatures	Date
X			<i>Chad A. Fabian</i> Chad A. Fabian / Project Manager	February 3, 2022
X			<i>Nicholas W. Hartranft, P.E.</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	February 7, 2022

Internal Review and Recommendations

Per the respective SOP and above calculations, the effluent limitations for TN and TP will be consistent with Option A above. The WIP states that nutrient monitoring for expanded Phase 5 facilities should be no less than 1/month. Therefore, the proposed monitoring frequency for TN and TP will remain 1/month.

In addition, at the request of the permittee the Department will include a compliance schedule for all the Chesapeake Bay nutrient limitations and monitoring. The new plant upgrades are expected to be completed by May 1, 2023. Therefore, the Chesapeake Bay annual load requirements will begin on October 1, 2023 with the start of the new water year, as defined by the Department's Chesapeake Bay Tributary Strategy.

It is recommended a draft permit be send to the permittee with the above-mentioned changes.