

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

**NPDES PERMIT FACT SHEET RE-DRAFT
INDIVIDUAL SEWAGE**

Application No. PA0088552
APS ID 1080715
Authorization ID 1426640

Applicant and Facility Information

Applicant Name	<u>Oakbrook Homeowners Association Of Elizabethtown</u>	Facility Name	<u>Oakbrook Homeowners Subdivision</u>
Applicant Address	<u>7 Oakbrook Lane</u> <u>Elizabethtown, PA 17022-1150</u>	Facility Address	<u>Oakbrook Lane</u> <u>Elizabethtown, PA 17022-1150</u>
Applicant Contact	<u>Jeff Heckman</u>	Facility Contact	<u>Jeff Heckman</u>
Applicant Phone	<u>(717) 587-5399</u>	Facility Phone	<u>(717) 587-5399</u>
Client ID	<u>279922</u>	Site ID	<u>537986</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>West Donegal Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Lancaster</u>
Date Application Received	<u>November 29, 2022</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>February 14, 2023</u>	If No, Reason	<u>TMDL</u>
Purpose of Application	<u>NPDES Renewal.</u>		

Summary of Review

A draft NPDES permit was issued on April 18, 2024, and was published in the PA Bulletin on May 4, 2024. Comments were received from EPA on May 22, 2024, and are attached to this fact sheet.

In response to the comments, the Conewago Creek Watershed TMDL has been reviewed, and limits for TP have been included in the NPDES permit. Table 10 of the TMDL establishes permitted loads and discharge concentrations for TP for each discharger in the watershed. For PA0088552, a permitted TP of 8 mg/l and a TP Load of 78 lbs/yr were established. These have been added as limits in Part A of the NPDES permit. A review of the DMR data for Oakbrook show that the effluent concentrations of TP are consistent with the TMDL, and the facility is capable of meeting these limitations.

The NPDES permit will be re-drafted with the changes to Total Phosphorus. No other changes will be made to the permit.

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		Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	June 12, 2024
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	June 13, 2024

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	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	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	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.43	XXX	1.4	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	2/month	Grab
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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Nitrate-Nitrite	XXX	XXX	XXX	Report Daily Max	XXX	XXX	2/month	8-Hr Composite
Total Nitrogen	XXX	XXX	XXX	Report Daily Max	XXX	XXX	2/month	Calculation

Approve	Deny	Signatures	Date
X		Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	June 12, 2024
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	June 13, 2024

Outfall 001 , Continued (from 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	Maximum	Instant. Maximum		
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	22.5	XXX	45	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	7.5	XXX	15	2/month	8-Hr Composite
TKN	XXX	XXX	XXX	Report Daily Max	XXX	XXX	2/month	8-Hr Composite
Total Phosphorus	Report	XXX	XXX	8.0	XXX	16	2/month	8-Hr Composite
Net Total Phosphorus (lbs/yr)	XXX	78	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance Sampling Location: Outfall 001

Other Comments: None

Lockwood, Benjamin

From: Fulton, Jennifer <Fulton.Jennifer@epa.gov>
Sent: Wednesday, May 22, 2024 8:39 AM
To: Lockwood, Benjamin
Cc: Furjanic, Sean; Schumack, Maria; Martin, Daniel; Moncavage, Carissa (she/her/hers); Hales, Dana
Subject: [External] PA0088552 Oakbrook Homeowners Subdivision
Follow Up Flag: Follow up
Flag Status: Completed

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Benjamin,

According to our Memorandum of Agreement, the Environmental Protection Agency (EPA) Region III has received the draft National Pollutant Discharge Elimination System (NPDES) permit for:

Oakbrook Homeowners Subdivision
NPDES Number: PA0088552
EPA Received: April 22, 2024
30-day response due date: May 22, 2024

This is a minor permit that discharges to the Unnamed Tributary of Conewago Creek, is a non-significant Chesapeake Bay discharger, and is impacted by the Conewago Creek Watershed TMDL. EPA has chosen to perform a limited review of the draft permit based on the wasteload allocation (WLA) requirements of the approved TMDLs. EPA has completed its review and offers the following comment:

1. In 2018, EPA commented on the previous draft permit noting that at this permit reissuance an evaluation of the TP data should be evaluated to determine if the facility's discharge levels are consistent with the Conewago Creek TMDL WLA. The fact sheet did not address this and will need to be revised to include this evaluation. Although no reductions are necessary from point sources according to the TMDL, the annual TP WLA of 78 lbs/yr should be imposed in the permit to ensure consistency with the assumptions and requirements of the WLA (40 CFR 122.44(d)(1)(vii)(B)).

Please address the above and provide us with any changes to the draft permit and/or fact sheet, if necessary. Please contact Dana Hales on my staff via telephone at 215-814-2928 or via electronic mail at hales.dana@epa.gov.

Thank you,

Jen Fulton



Jennifer Fulton (she/her)
 Acting Chief, Clean Water Branch
 US EPA Mid-Atlantic Region
 Phone 304-234-0248
 Email fulton.jennifer@epa.gov



Approve	Deny	Signatures	Date
X		Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	June 12, 2024
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	June 13, 2024

B	Cedar Manor Mobile Home Park	PA0080721	0.06	0.56	116	0.072	2.0	438
B	Conewago Valley Motor Inn	PA0041220	0.028	1.04	89	0.048	2.0	292.1
B	Crowe Transportation	PA0081353	0.0025	0.7	5	0.007	2.0	43
B	Pine Manor MHP	PA0033391	Unknown	Unknown	na	0.02	2.0	122
B	David Over STP	PA0088552	Na	Na	Na	0.0032	8	78
B	Conewago Industrial Park	PA0080055	0.01	Not Available	61*	0.15	2.0	913

* Calculated using 1999 DMR Flow and permitted TP Conc.

** Represents edge-of-pipe load. Point source load presented in Tables 4, 5, 15, and 16 as Existing or Current Load are the load delivered to watershed outlet after in-stream losses described above are applied to edge-of-pipe loads.

6.4. Load Allocation

The Load allocation (LA), consisting of all nonpoint sources in the watershed, was computed by subtracting the margin of safety and the wasteload allocation (WLA) from the TMDL total load. Notice that sediments do not have waste load allocation. In this case, WLA equals to 0 lbs.

SUBBASIN A

$$LA \text{ (Phosphorus)} = 4,522 \text{ lbs/yr} - 226 \text{ lbs/yr} - 2,103 \text{ lbs/yr} = 2,193 \text{ lbs/yr} \quad (7)$$

$$LA \text{ (Sediments)} = 3,123,517 \text{ lbs/yr} - 312,352 \text{ lbs/yr} = 2,811,165 \text{ lbs/yr} \quad (8)$$

SUBBASIN B

$$LA \text{ (Phosphorus)} = 8,120 - 406 \text{ lbs/yr} - 1,886 \text{ lbs/yr} = 5,828 \text{ lbs/yr} \quad (9)$$

$$LA \text{ (Sediments)} = 6,434,669 \text{ lbs/yr} - 643,467 = 5,791,202 \text{ lbs/yr} \quad (10)$$

6.5. Adjusted Load Allocation

The adjusted load allocation (ALA) is the actual load allocation for sources that will need reductions. It is computed by subtracting loads from non-point sources that are not considered in the reduction scenario (LNR). These are loads from all non-point sources in Table 5 except those from agricultural land uses (Hay/Past, Row Crops). Therefore, using data in Table 5,

SUBBASIN A

$$LNR \text{ (Phosphorus)} = 2 \text{ lbs/yr} + 2 \text{ lbs/yr} + 250 \text{ lbs/yr} + 8 \text{ lb/yr} + 38 \text{ lbs/yr} + 548 \text{ lbs/yr} + 38 \text{ lbs/yr} = 886 \text{ lbs/yr} \quad (11)$$

$$ALA \text{ (Phosphorus)} = 2,193 \text{ lbs/yr} - 886 \text{ lbs/yr} = 1,307 \text{ lbs/yr} \quad (12)$$