

NPDES Permit No. IL0067881
Notice No. FJH:24050701.docx

Public Notice Beginning Date: July 11, 2024

Public Notice Ending Date: August 12, 2024

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency
Bureau of Water,
Division of Water Pollution Control
Permit Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
217/782-0610

Name and Address of Discharger:

Leider Greenhouses
1625 Leider Lane
Buffalo Grove, Illinois 60089

Name and Address of Facility:

Leider Greenhouses
1625 Leider Lane
Buffalo Grove, Illinois 60089
(Lake County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicates a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Francisco J. Herrera at 217/782-0610.

The applicant is engaged in production of flowering and foliage plants (SIC 0181). Wastewater is generated from excess irrigation. When the plants are watered, excess water, that which is not retained by the plants or the soil, drains from the soil, this water is collected in a retention pond and reused. In the case of large precipitation events, the pond must be drained to prevent overtopping, resulting in an average discharge of 0.40 MGD of irrigation pond water from Outfall 002.

The following modification is proposed:

1. The ammonia effluent limits for Outfall 002 have been revised.

Application is made for the existing discharge(s) which is located in Lake County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
002	Aptakisic Creek	42° 10' 40" North	87°56' 22" West	General Use	Not Rated

To assist you further in identifying the location of the discharge please see the attached map.

Aptakisic Creek, waterbody segment IL_G-36, is a General Use waterbody with a 0 cfs 7Q10 flow receiving the discharge from outfall 002. Aptakisic Creek is not listed on the 2020/2022 Illinois Integrated Water Quality Report and Section 303(d) List and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – Integrating Multiple Taxa in a Biological Stream Rating System. Aptakisic Creek is not subject to enhanced dissolved oxygen standards.

The discharge(s) from the facility shall be monitored and limited at all times as follows:

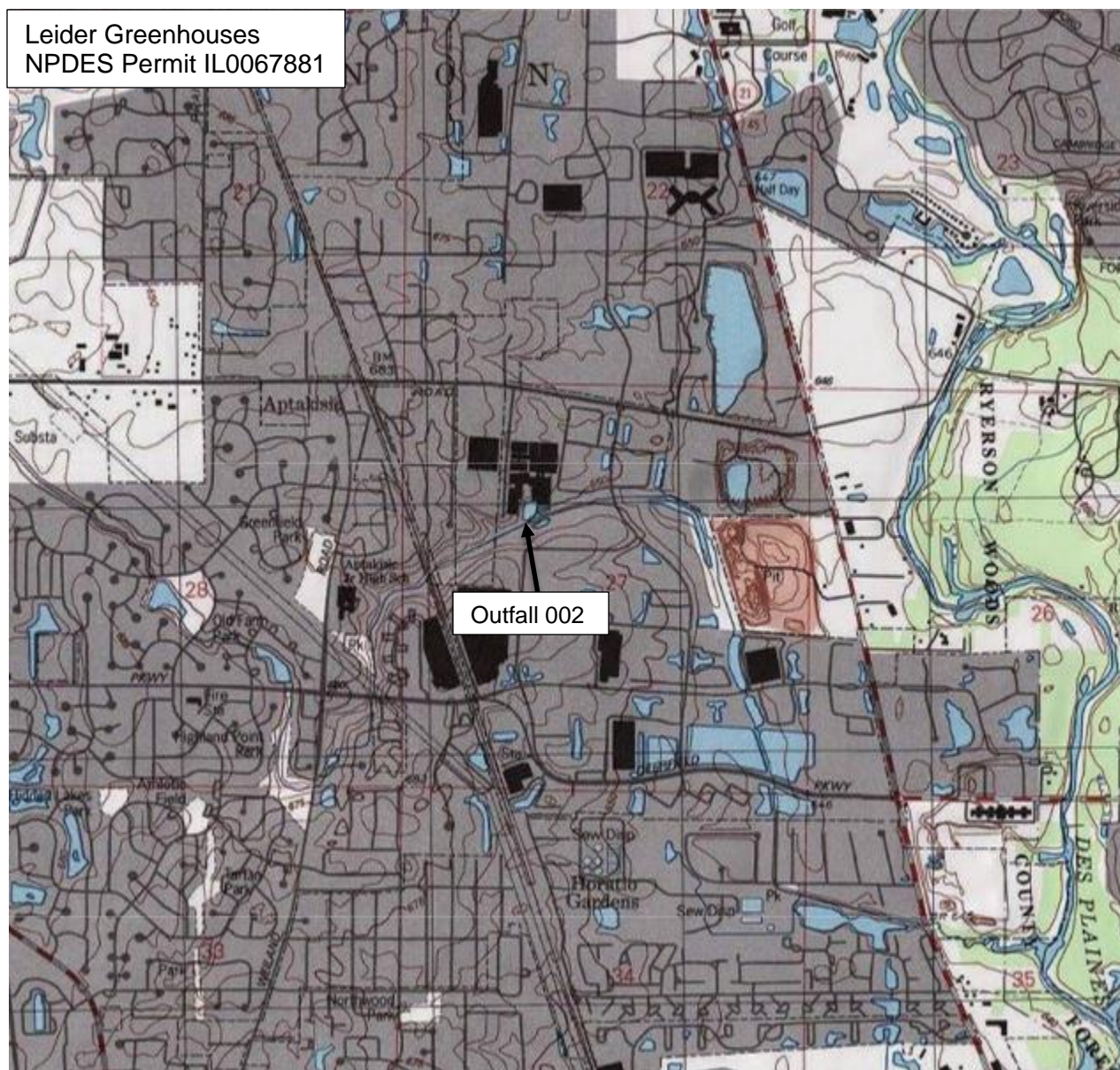
Outfall: 002 Irrigation Pond Water

PARAMETER	LOAD LIMITS lbs/day		REGULATION	CONCENTRATION			REGULATION
	<u>DAF (DMF)</u>			<u>LIMITS mg/l</u>			
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM		
Flow							35 IAC 309.146
pH				6.5-9.0 s.u.			35 IAC 302.204
BOD ₅				10	20		35 IAC 304.120(c)
Total Suspended Solids				12	24		35 IAC 304.120(c)
Phosphorus (as P)				Monitor Only			35 IAC 309.146
Total Nitrogen				Monitor Only			35 IAC 309.146
Ammonia (as N)				Weekly Avg.	Monthly Avg.	Daily Max.	35 IAC 355
Mar-May, Sep-Oct				5.1	2.1	10.9	
Jun-Aug				4.6	1.8	14.7	
Nov-Feb					3.6	5.4	

The following explain the conditions of the proposed permit:

The special conditions of the permit serve to clarify flow and pH monitoring and reporting requirements, monitoring location, discharge monitoring requirements, chemical additives, and biomonitoring requirements.

Leider Greenhouses
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Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Facility Name and Address:

Leider Greenhouses
1625 Leider Lane
Buffalo Grove, Illinois 60089

Leider Greenhouses
1625 Leider Lane
Buffalo Grove, Illinois 60089
(Lake County)

Discharge Number and Name:

Receiving Waters:

002 Irrigation Pond Water

Aptakisic Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Darin E. LeCrone, P.E.
Manager, Permit Section
Division of Water Pollution Control

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Effluent Limitations and Monitoring

From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall: 002 Irrigation Pond Water (Average Flow = 0.4 MGD)

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENTRATION <u>LIMITS mg/l</u>		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	See Special Condition 1				1/Week	Measure
pH	See Special Condition 2				1/Week	Grab
BOD ₅			10	20	1/Week	Grab
Total Suspended Solids			12	24	1/Week	Grab
Phosphorus (as P)			Monitor Only		2/Year*	Grab
Total Nitrogen			Monitor Only		2/Year*	Grab
Ammonia (as N)			Weekly Avg.	Monthly Avg.	Daily Max.	1/Week
Mar-May, Sep-Oct			5.1	2.1	10.9	
Jun-Aug			4.6	1.8	14.7	
Nov-Feb				3.6	5.4	

*2/Year samples shall be submitted with the June and December DMRs.

Special Conditions

SPECIAL CONDITION 1. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum value on the monthly Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range of 6.5 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 4. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <https://epa.illinois.gov/topics/water-quality/surface-water/netdmr/quick-answer-guide.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees that have been granted a waiver shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 5. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

SPECIAL CONDITION 6. In the event that the permittee must request a change in the use of water treatment additives, the permittee must request a change in this permit in accordance with Standard Conditions - - Attachment H.

SPECIAL CONDITION 7. The Permittee shall conduct biomonitoring of the effluent from Outfall 002 in accordance with the following requirements.

Biomonitoring

1. Acute Toxicity - Standard definitive acute toxicity testing shall be conducted consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA/821-R-02-012. Unless substitute tests are pre-approved; the following testing is required:
 - a. Invertebrate 48-hour static LC₅₀ Bioassays using Ceriodaphnia.
2. Testing Frequency - The above test shall be conducted annually using 24-hour composite samples unless otherwise authorized by the IEPA. If possible, bioassay sample collection should coincide with sample collection for metals analysis or other parameters that may contribute to effluent toxicity.
3. Reporting - Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory.
4. Toxicity – Should a bioassay result in toxicity to >20% of organisms tested in the 100% effluent treatment, the IEPA may require, upon notification, six (6) additional rounds of monthly testing on the affected organism to be initiated within 30 days of the toxic bioassay. Results shall be submitted to IEPA within one (1) week of becoming available to the Permittee. Should any of the

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Special Conditions

additional bioassays result in toxicity to $\geq 50\%$ of organisms tested in the 100% effluent treatments, the Permittee must contact the IEPA within one (1) day of the results becoming available to the Permittee and begin the toxicity identification and reduction evaluation process as outlined below.

5. Toxicity Identification and Reduction Evaluation - Should any of the additional bioassays result in toxicity to $\geq 50\%$ of organisms tested in the 100% effluent treatment, the Permittee must contact the IEPA within one (1) day of the results becoming available to the Permittee and begin the toxicity identification evaluation process in accordance with Methods for Aquatic Toxicity Identification Evaluations, EPA/600/6-91/003. The IEPA may also require, upon notification, that the Permittee prepare a plan for toxicity reduction evaluation to be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, which shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 8. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.