

City of South Bend
Department of Public Works
Industrial Pretreatment Program

Significant Industrial User – Permit No. 218071-92046

In accordance with all the terms of Chapter 17 of the City of South Bend’s Municipal Code, and with any applicable provisions of federal or state law and regulations, permission is hereby granted to:

Unifrax 1 LLC DBA ALKEGEN
54401 Smilax Road
New Carlisle IN 46552

for the contribution of wastewater into the City of South Bend Publicly Owned Treatment Works.

This permit is granted in accordance with the application filed on 11 January, 2023.

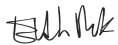
Effective on: 14 April, 2023

Expires on the: 13 April, 2028

Any violation of the terms and conditions of this permit shall be deemed a violation of the City of South Bend Municipal Code and will subject the permittee to the sanctions set out in section 17-11 through 17-13 of the Municipal Code. The permittee shall file an application for a renewal permit, a minimum of 90 days prior to the expiration date.

Approved By:

CITY OF SOUTH BEND, INDIANA
BOARD OF PUBLIC WORKS



Elizabeth A. Maradik, President



Joseph R. Molnar, Vice President



Gary A. Gilot, Member



Briana Micou, Member



Murray L. Miller, Member



Attest: Theresa M. Heffner, Clerk

Date: June 25, 2024



CITY OF SOUTH BEND JAMES MUELLER, MAYOR
DEPARTMENT OF PUBLIC WORKS
ERIC HORVATH, DIRECTOR

June 11, 2024

Board of Public Works
City of South Bend
1316 County City Building
227 West Jefferson Boulevard
South Bend IN 46601

RE: Modification of Industrial Wastewater Discharge Permit

Dear Board Members:

The Division of Environmental Services recommends approving the modification of the Industrial Discharge Permit for Unifrax 1 LLC at the June 25, 2024, Board of Public Works Meeting.

Unifrax 1 LLC has rebranded to Alkegen publicly. However, the legal name remains Unifrax 1 LLC. The Division of Environmental Services has changed this permit to reflect Unifrax 1, LLC DBA Alkegen. No other changes have been made.

If you should have any questions, please do not hesitate to contact me (574) 235-5798 or at sshane@southbendin.gov.

Sincerely,

Serena Lozano-Shane

Serena Lozano-Shane
Pretreatment Manager
City of South Bend
Division of Environmental Services, Department of Utilities
(574) 235-5798
sshane@southbendin.gov

Enclosure(s)

Agenda Request form- Industrial Discharge Permit Board of Public Works Signature Page,
Permit Briefing Memo

PERMIT BRIEFING MEMO

1. Facility Description

Unifrax 1 LLC DBA ALKEGEN engages in the production of high temperature ceramic fiber insulation and value-added products. The ceramic fiber is produced from raw materials such as alumina, sand, zircon, and kaolin. At this facility, insulation is manufactured in bulk, needled into blanket form, or is processed into coatings/mixes.

Unifrax operates 24 hours a day, 7 days a week. Unifrax currently employs 165 people. There is no seasonal variation in production.

It has been determined that Unifrax does not fit into category 40 CFR 414: organic chemicals, plastics, and synthetic fibers.

2. Discharge Description

This permit oversees, but not limited to, wastewater discharged at Sample Site 5-1. Discharge from Sample Site 5-1 includes domestic wastewater and process wastewater from the fabrication department which includes SiFab Line addition. The wastewater leaves the facility, is channeled through Sample Site 5-1, and is measured via Parshall Flume and ultrasonic flow meter prior to discharge into the City of South Bend Sewer System.

Unifrax has identified copper and zinc as known to be present in their wastewater. Unifrax suspects that all toxic organic compounds are absent.

From 2018-2022, Unifrax 1 LLC DBA ALKEGEN wastewater flows were as follows:

Average daily flow was: **30,444 gpd.**

Maximum daily flow was: **204,000 gpd**

SiFab Line is estimated to add 4,000 to 10,000 gpd

Note that precipitation is diverted to a storm pond and is not discharged to the City of South Bend's POTW. Wastewater from furnace trough is also discharged to the storm pond.

3. Sample Site Description

Sample monitoring is conducted at Sample Site 5-1, which is located in a sample shed south of the facility. Inside the sampling shed is a manhole with a light plastic cover that has a handle to lift it out of the opening. The wastewater is metered with a three (3) inch parshall flume and ultrasonic flow meter. The flow meter output is in the shed and is equipped such that flow proportioned sampling may be conducted.

4. Wastewater Treatment

Unifrax employs the use of grit removal, filtration, and a settling tank to pretreat its wastewater.

5. Classification

Unifrax 1 LLC DBA ALKEGEN is classified as a Significant Industrial User (SIU). Unifrax Corporation is further categorized as a C industry per the City's Industrial Pretreatment Program Monitoring Plan in which all industries that discharge process wastewater between >25,000 gpd <50,000 gpd are Category C industries.

6. Calculation of Limits

Discharge limits are applied from the South Bend Municipal Code without modification.

7. Monitoring Frequency

Monitoring frequencies are based on South Bend's US EPA approved Industrial Pretreatment Program Monitoring Plan.

8. Industrial Operator Certification Requirement

Operator Certification Requirement: **A-SO**

Industrial operator certification requirements are based on the criteria listed in Indiana Administrative Code, Title 327, 5-22-5.

Permit Drafted by:
City of South Bend
Industrial Pretreatment Group

