



March 9, 2026

Project No.: S-2026-0169

H2FLO
5600 W Florist Avenue
Milwaukee, WI 53218

Subject: Pretreatment Plan Approval of Pretreatment Equipment Installation

Dear Mr. Bruno:

The Wisconsin Department of Natural Resources (hereafter department) is conditionally approving plans and specifications for the installation of pretreatment equipment at 5600 W Florist Avenue, in Milwaukee Wisconsin, submitted under the seal of Kristie Linsmeier, Professional Engineer, The Sigma Group Incorporated, non-critical revision by R. Bruno on 1/12/2026.

The H2FLO facility will receive trucked wastewaters from customers, treat and dewater it, and discharge it to the sanitary sewer. Incoming wastewater will be sampled and analyzed prior to discharge. Wastewater outside of treatment parameters for the facility will be denied. Incoming accepted wastewater screened through a 1/4" screen and pumped into one 21,000 gallon frac tank for gravity separation. From there it will be pumped to one of six 7,200 gallon process tanks for treatment. Once the wastewater is treated to acceptable discharge parameters in compliance with a discharge permit issued by the MMSD it will be discharged to the MMSD sanitary sewer for final treatment.

Offloaded waste will pass through a 1/4" mesh screens and pumped from a 4'X4'x12' inlet collection box using a Goulds 3196 ten horsepower 600 gallon per minute transfer pump to a 21,000 gallon double walled rectangular frac tank for gravity separation. Once separated, the wastewater will be transferred via pump to treatment tanks. Solids will be transferred using an air operated 275 GPM Wilden pump from the screening box to the solids holding tank as needed.

Wastewater from the frac tank will be transferred via a two horsepower 265 gallon per minute transfer and mixing pump to one or more of six 7,200 gallon cone bottom process tanks.

The process tanks will be used to apply acid, caustic, alum and polymer as needed for treatment based on the character of the waste individually, simultaneously, or in sequence as needed.

If required wastewater will be directed to a 175 gallon per minute DAF unit for further treatment.

The treatment chemicals will consist of acid, caustic, alum, and polymer solutions each stored in individual 275 gallon commercial totes and delivered to the treatment tanks via independent 3/4" 23 gallon per minute Sandpiper chemical feed pumps. Chemical dose rates will be determined via onsite bench testing and ongoing treatment results.

Screened solids from the intake screen, sludge from the DAF unit, and settled solids resulting from the treatment processes in the treatment tanks will be transferred to a sludge storage tank and disposed of appropriately via contract hauler.

Wastewater discharge will gravity drain through a 4 inch MJK MagFlux 7200 series magmeter and be sampled according to discharge standards using an ISCO sampler. All analysis will be done in accordance with applicable discharge standards utilizing appropriate analytical methods by Wisconsin certified wastewater laboratories.

The pretreatment equipment installation is hereby approved in accordance with s. 281.41, Wis. Stats., under Project Number S-2026-0169, subject to the following conditions:

1. That the proposed pretreatment system is operated effectively and efficiently when the system is placed in operation.
2. That the receiving POTW and the department are notified when construction commences and again when the approved facilities are placed in operation. Please notify Elizabeth Stroik at the Milwaukee Metropolitan Sewerage District and Jacob Van Susteren-Wedesky at ESTroik@mmsd.com or 414-225-2157, and jacob.vansusterenwedesky@wisconsin.gov 414-239-1480.
3. That if permits under ch. NR 216, Wis. Adm. Code, are required for the construction site storm water runoff discharge that no construction begin until such permits are obtained. Information to determine your need for a ch. NR 216, Wis. Adm. Code, permit can be found at the Department web page for storm water runoff permits (<http://dnr.wi.gov/topic/stormwater/>).
4. That any existing pretreatment facility be operated effectively during construction to ensure, at a minimum, that the preconstruction treatment levels are maintained and all provisions of the local sewer use ordinance, ch. NR 211, Wis. Adm. Code, sanitary sewer discharge permits and any other federal, state, or local requirements are met.
5. That all solids and sludges resulting from the treatment of these wastewaters be disposed of in accordance with ch. NR 214, Wis. Adm. Code (Land Application of Industrial Sludge) and the WPDES permit for the facility or any applicable Solid and Hazardous Waste Regulations (in chs. NR 500 to 590 and 600 to 690, Wis. Adm. Code).
6. That if modifications in the approved plans or specifications are necessary, revised plans or specifications shall be submitted to the department for its approval prior to commencement of construction of the project modifications. Revised plans or specifications do not need to be submitted in the event the modifications in the approved plans or specifications will not affect the public health, the capacity, flow or operation of the proposed facilities, or devices to determine permit compliance.
7. That if construction has not commenced within two years from the date of this approval letter, the approval shall become void. If approval lapses by passage of time, a new department approval of plans, submitted in accordance with the requirements of s. NR 108.04(2), Wis. Adm. Code, must be received before construction can commence.
8. That the project be constructed in accordance with the approved plans and specifications, and the above conditions, or subsequent approved modifications.

This conditional approval of plans and specifications is not to be construed as a department determination on the issuance of a WPDES permit, an opinion as to the ability of the proposed system to comply with effluent limitations in such permit, an approval of the environmental analysis that may be prepared for this project or an approval for any activities requiring a permit under ch. 30, 31, or 281, Wis. Stats. Also, this letter is not to be construed as an approval for activities requiring approval under other Wisconsin administrative codes or statutes or by other federal, state or local agencies.

Additional information regarding the department's legal authority in this matter and your rights of appeal are shown below. Please contact Richard Douglas by phone 608-513-5604 or email:richard.douglas@wisconsin.gov if you have any questions regarding this letter.

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
FOR THE SECRETARY

A handwritten signature in black ink that reads "Richard Douglas". The signature is written in a cursive, flowing style.

Nathaniel Willis, PE
Wastewater Section Manager
Bureau of Water Quality

Richard Douglas
Wastewater Specialist
Bureau of Water Quality

cc: Jacon Van-Susteren-Wedesky – WI DNR, SE Region
 Elizabeth Stroik-Milwaukee Metropolitan Sewerage District

Legal Authority and Appeal Rights

The department has authority to examine and take action to approve, conditionally approve, or reject the final plans and specifications of any reviewable project within 90 days of receipt of complete plans and specifications to the department pursuant to s. 281.41, Wis. Stats. and ch. NR 108, Wis. Adm. Code. The department reserves the right to modify this approval and order changes or additions to the approved plans upon due notice should conditions arise making this necessary.

If you believe you have a right to challenge this decision, the Wisconsin statutes and administrative codes establish time periods which requests to review department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the department, to file your petition with the appropriate circuit court and serve the petition on the department. Such a petition for judicial review must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. All requests for contested case hearings must be made in accordance with s. NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with s. NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing does not extend the 30-day period for filing a petition for judicial review. The filing of a request for a contested case hearing is not prerequisite for judicial review.