

## Industrial Pretreatment Permit Fact Sheet

### Industrial Permit Summary

<b>Applicant</b>	Magnakleen Services LLC
<b>Permit No.</b>	SP0000886
<b>Application No.</b>	202404947
<b>Date Application Received</b>	April 8, 2024
<b>Location Address</b>	112 Empire Avenue Meriden, CT 06450
<b>Facility Contact</b>	R. William Hekeler, President Office Phone: (203) 237 - 0025 Email: <a href="mailto:bill@magnakleen.com">bill@magnakleen.com</a>
<b>Mailing Address</b>	112 Empire Avenue Meriden, CT 06450
<b>DMR Contact</b>	R. William Hekeler, President Office Phone: (203) 237 - 0025 Email: <a href="mailto:bill@magnakleen.com">bill@magnakleen.com</a>
<b>Permit Term</b>	10 years
<b>Permit Category</b>	Non-Significant Industrial User (“Non-SIU”)
<b>SIC Code</b>	7218,
<b>NAICS Code</b>	812332
<b>Permit Type</b>	Reissuance
<b>Ownership</b>	Private
<b>Receiving Publicly Owned Treatment Works (“POTW”)</b>	City of Meriden’s POTW (NPDES Permit No. CT0100315) discharges to the Quinnipiac River

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**DEEP Staff Engineer**

Ryan Bellucci  
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Email: [ryan.bellucci@ct.gov](mailto:ryan.bellucci@ct.gov)

**Date Application Public Noticed/** March 22, 2024 / Connecticut Post  
**Name of Paper**

**Date Sufficiency Review Completed** June 26, 2024

**Application Timely and Sufficient**  Yes  No

**Tentative Determination Fact Sheet Date** *June 25, 2025*

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## SECTION 1.0 PERMIT FEES

### *Application Fee:*

Filing Fee	Cost: \$1,300.00	Date Paid: 04/10/2024
Processing Fee	Cost: \$6,300.00	Date Paid: 04/30/2024
Untimely Renewal of Application Fee	Cost: \$4,940.00	Date Paid: 04/30/2024

### *Annual Fee:*

	WASTEWATER CATEGORY (per RCSA Section 22a-430-7)	FLOW CATEGORY	DSN	ANNUAL FEE (per RCSA Sec. 22a- 430-7 and CGS Sec. 22a-6f)
	<i>Auto and other Laundries</i> <i>Wastewaters - Industrial Laundries</i>	0-50,000	001-1	\$4,337.50
<b>TOTAL</b>				\$4,337.50

Note: The discharge associated with DSN 201-1 contains less than 1 gallon per day of compressor blowdown, 1 gallon per day of laboratory sink wastewater, and 15 gallons per day of vehicle maintenance wastewater. Due to the minimal quantities as compared to the volume of the overall discharge, fees were not assessed for these discharges.

## SECTION 2.0 DESCRIPTION OF WASTE STREAMS

The applicant seeks authorization for the following:

DSN	PROPOSED AVERAGE DAILY FLOW (gpd)	PROPOSED MAXIMUM DAILY FLOW (gpd)	PROPOSED WASTESTREAMS	TREATMENT TYPE	DISCHARGE TO
001-1	12,000	14,000	Industrial laundry wastewater, compressor blowdown, vehicle maintenance wastewater, and laboratory sink wastewater	Neutralization, Coagulation, Flocculation	Meriden POTW

## SECTION 3.0 FACILITY BACKGROUND & PERMIT HISTORY

Magnakleen Services LLC (“Magnakleen” or “Permittee”) is a business that performs industrial laundry services. The Permittee provides cleaning services for commercial and industrial mats, towels and dust mops. Magnakleen does not accept shop rags or uniforms.

The Operation and Maintenance (O&M) Plan was last revised on January 13, 2025.

### 3.1 Solvent Management Plan

Is the facility operating under an approved Solvent Management Plan (SMP)?

Yes  No  N/A

### 3.2 Compliance & Enforcement

3.2.1 Reported Effluent Violations:

Monitoring Period End Date	Parameter	Reporting Type	Permit Limit	DMR Value	Units
10/31/2014	pH, Minimum	INST MIN	6.0	5.01	S.U.
01/31/2017	Zinc, Total	MO AVG	1.0	1.41	mg/L
10/31/2024	Solids, Total Suspended	MO AVG	100.0	140.0	mg/L

3.2.2 Is the Permittee subject to an ongoing enforcement action?

If yes, provide a brief explanation: N/A

3.2.3 Have any enforcement actions been opened or closed in the prior permit term?

Yes  No  N/A

3.2.4 Does the Permit contain a compliance schedule (CS)?

Yes  No  N/A

*If yes, please check all that apply.*

Pollution Prevention

Water Conservation

Remediation

Water Quality Requirement

Treatment Requirement

Other

DEEP is acquiring per- and polyfluoroalkyl substances’ (“PFAS”) concentration data for specific dischargers to support further regulatory evaluation regarding the identification of contributing sources of such substances to the state’s publicly owned treatment works (“POTWs”). As such, this permit contains a compliance schedule which requires the Permittee to develop and implement a PFAS Sampling Plan for its discharge.

### 3.3 Permit Modifications

Were there modifications to the permit during the last permit term?

Yes  No  N/A

#### 1. Minor Permit Modification

Date: August 13, 2015

Summary: Minor permit modification was issued to change the sample type for oil petroleum, total recoverable from “Daily Composite” to “Grab Sample Average.” A definition for Grab Sample Average was added to the remarks section of Table A.

### 3.4 Permits for other Discharges

Does the facility have any other wastewater permits?

Yes  No  N/A

## **SECTION 4.0 THE ON-SITE WASTEWATER TREATMENT SYSTEM**

The treatment system is used to treat wastewater from industrial laundry processes, compressor blowdown, vehicle maintenance, and laboratory sinks.

Wastewater from washing machines, vehicle washing, air compressor blowdown, and the laboratory sink (“Slop Sink”) is discharged into a steel-plate-covered floor trench that conveys wastewater to a 900-gallon sump (“Wastewater Sump”). Wastewater is pumped from this sump through a vibratory screen (“Solids Screen”) that removes solids before the wastewater is transferred to a second, 900-gallon sump (“Reclaim Sump”).

Wastewater is then pumped to the chemical precipitation operations section of the treatment system. An equalization tank accepts the incoming wastewater, which is then pumped to a chemical treatment tank where pH is lowered to a setpoint of 5.0 S.U. using sulfuric acid. This helps emulsify oils. Here, aluminum sulfate, a coagulating agent, is also added. Wastewater then flows by gravity to a neutralization tank where pH is raised to a setpoint of 9.0 S.U. through the addition of sodium hydroxide. Wastewater is then gravity-fed to a floc tank where polymer is added (Superfloc A-130), then through an inclined-plate clarifier, and ultimately to an effluent pump tank. The effluent is directed through inline final flow and pH monitoring equipment before discharging to the sanitary sewer via the effluent pipe.

Settled sludge from the clarifier is pumped to a sludge tank where gravity thickening takes place. The thickened sludge is then pumped to a filter press for dewatering. Both decant water from the thickening tank and filtrate water from the filter press are directed back to the equalization tank.

See Attachment A for a diagram of the Wastewater Treatment System.

## SECTION 5.0 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### 5.1 Basis for Permit Limits and Conditions

Magnakleen Services LLC is a Non-Significant Industrial User (“Non-SIU”) because industrial laundries are not subject to Categorical Pretreatment Standards under 40 CFR Chapter I, Subchapter N, and the facility discharges less than 25,000 gallons per day of process wastewater. Therefore, they do not meet the definition of a Significant Industrial User (“SIU”) as defined in 40 CFR 403.3(v). During the previous permit term, Non-Significant Industrial User (“Non-SIU”) was referred to as a Pretreatment Minor.

<b>BASIS FOR LIMITS, STANDARDS OR CONDITIONS</b>		<b>DISCHARGE POINT(S)</b>
<input checked="" type="checkbox"/>	Federal Effluent Limitation Guideline (“ELG”) – 40 CFR 403	DSN 001-1
<input type="checkbox"/>	Pretreatment Standards for Existing Sources (“PSES”)	
<input type="checkbox"/>	Pretreatment Standards for New Sources (“PSNS”)	
<input type="checkbox"/>	Section 22a-430-4(s) of the Regulations of Connecticut State Agencies (“RCSA”)	
<input checked="" type="checkbox"/>	Case-by-Case Determination using Best Professional Judgment (“BPJ”) RCSA Sections 22a-430-4(l)(4)(D)(iii) and 22a-430-4(m)	DSN 001-1
<input checked="" type="checkbox"/>	Anti-Backsliding – RCSA Section 22a-430-4(l)(4)(D)(vi)	DSN 001-1
<input checked="" type="checkbox"/>	“Treatability of Oil and Grease Discharged to Publicly Owned Treatment Works”, USEPA, 1975-628-875	DSN 001-1

### 5.2 Local Limits

The Department of Energy and Environmental Protection (“DEEP”) is authorized by the Environmental Protection Agency (“EPA”) to administer the federal pretreatment program at the state-level as allowed by 40 CFR 403.10(e), as both the approval and control authority. EPA provides DEEP that authorization via a modified Memorandum of Agreement (“MOA”) dated June 3, 1981.

In Connecticut, all discharges must comply, at a minimum, with the general and specific prohibitions of the federal pretreatment standards and Section 22a-430-4(t) of the RCSA. To assure such compliance is achieved, state-issued pretreatment permits apply federal categorical and state regulatory standards and effluent limitations. DEEP may also apply additional or more stringent effluent limitations based on Best Professional Judgment pursuant to RCSA Section 22a-430-4(m), including local limits if such local limits were technically based, to mitigate the risk for a pollutant discharge to negatively impact receiving waters and/or the POTW’s operations, including sludge handling or disposal, worker health or safety, or otherwise interfere with the POTW’s ability to comply with its own NPDES permit.

In accordance with 40 CFR 403.5(c)(2), POTWs shall develop and enforce specific effluent limits

for industrial users (“IUs”) to both prevent pass through and interference, and to keep the POTW in compliance with their NPDES permit or sludge use or disposal practices. In the State’s MOA with the EPA, the State must “assure that [the] development of specific limits for discharges of prohibited pollutants under 40 CFR 403.5(c) is at least as extensive as would have been required if these POTWs had developed local programs.” To comply with this agreement, the State will only utilize local limits developed technically [40 CFR 122.44(j)(2)(ii)] in accordance with EPA’s July 2004 Local Limits Development Guidance (EPA 833-R-04-002A) in a state permit. Local limits not incorporated into state pretreatment permits remain enforceable by the municipality as allowed by the local sewer use ordinance.

### 5.3 Slug Loading

Connecticut discharge regulations do not allow what is defined as a “slug loading” in 40 CFR 403.8(f)(2)(vi). The items listed in the definition are regulated as a spill or unplanned release under Section 22a-449 of the RCSA and/or as an unpermitted discharge under Section 22a-430 of the RCSA. The Department’s practice of applying instantaneous limits in permits further regulates slug loading. The Department’s various standard regulatory requirements governing including, but not limited to, proper operation and maintenance (RCSA Section 22a-430-3(f)); sludge disposal (RCSA Section 22a-430-3(g)); duty to mitigate (RCSA Section 22a-430-3(h)); facility modification and notification (RCSA Section 22a-430-3(i)); monitoring records and reporting requirements (RCSA Section 22a-430-3(j)); bypass (RCSA Section 22a-430-3(k)); effluent limitation violations (RCSA Section 22a-430-3(m)); resource conservation (RCSA Section 22a-430-3(o)); spill prevention and control (RCSA Section 22a-430-3(p)); instrumentation, alarm, flow recorders (RCSA Section 22a-430-3(q)); equalization (RCSA Section 22a-430-3(r)); and the practice of applying monitoring requirements and instantaneous limits in permits further regulate slug loading.

#### 5.4 Applicable Effluent Limits

The following table lists the effluent limits developed using best professional judgement (“BPJ”). There are no federal, state, or local limits applicable to this discharge.

#### **DSN 001-1**

<b>Parameter</b>	<b>Units</b>	<b>BPJ</b>		
		<b>Average Monthly</b>	<b>Maximum Daily</b>	<b>Instantaneous</b>
Copper, Total	mg/L	1.0	2.0	3.0
Flow, Maximum during 24 hour period	gpd	NA	14,000	NA
Lead, Total	mg/L	0.1	0.5	0.75
Oil & Grease, Non-polar Material	mg/L	50.0	100.0	150.0
pH	S.U.	NA	NA	6.0-10.0
Phosphorus, Total	mg/L	NA	NA	----
Total Suspended Solids	mg/L	100.0	150.0	225.0
Zinc, Total	mg/L	1.0	2.0	3.0

If “---” is noted in the limit’s column in the table, this means a limit is not specified but a value must be reported on the Discharge Monitoring Report (“DMR”). If “NA” is noted, this means there is no limit or monitoring required.

#### 5.5 Monitoring Requirements

Generally, monitoring frequencies for parameters are based on the Monitoring Schedule referenced in RCSA Section 22a-430-3(j)(2), which are based on the discharge category and the volume being discharged. However, based on engineering judgment, alternative monitoring frequencies can be determined based on waste stream and process variability, pollutants discharged, effluent limits, discharge frequency, and receiving POTW information.

Sample collection methods are based on the variability of the discharge and parameter being monitored in accordance with RCSA Section 22a-430-3(j)(7).

The following tables provide the sample types, frequencies, and additional monitoring information for each DSN.

## DSN 001-1

Sample Type	Sample Frequency	Parameter	Source of Parameter
Daily Composite Sample	Quarterly	Copper, Total	Expected source is cleaning of commercial and industrial mats, towels and dust mops.
		Lead, Total	Expected source is cleaning of commercial and industrial mats, towels and dust mops.
		Total Suspended Solids	Expected source is cleaning of commercial and industrial mats, towels and dust mops.
		Zinc, Total	Expected source is cleaning of commercial and industrial mats, towels and dust mops.
Grab Sample Average	Quarterly	Oil & Grease, Non-Polar Material	Expected source is cleaning of commercial and industrial mats, towels and dust mops.
Grab Sample	Quarterly	Phosphorus, Total	Expected source is cleaning of commercial and industrial mats, towels and dust mops.

## 5.6 Permit Limits and Monitoring Requirements Development

### DSN 001-1

**Copper, Total:** The average monthly limit (“AML”), maximum daily limit (“MDL”), and maximum instantaneous limit (“MIL”) are carried forward from the previous permit in accordance with the anti-backsliding regulation, Section 22a-430-4(l)(4)(D)(vi) of the RCSA.

**Lead, Total:** The AML, MDL, and MIL are carried forward from the previous permit in accordance with the anti-backsliding regulation, Section 22a-430-4(l)(4)(D)(vi) of the RCSA.

**Oil & Grease, Non-polar Material:** Based on the recommended maximum limit of 100 mg/L for oil and grease of petroleum and mineral origins, as described in “Treatability of Oil and Grease Discharged to Publicly Owned Treatment Works”, USEPA, 1975-628-875, the AML of 50.0 mg/L, MDL of 100.0 mg/L, and MIL of 150.0 mg/L for oil and grease, non-polar material, have been carried forward from the previous permit.

**Phosphorus:** Phosphorous monitoring is carried forward from the previous permit. Industrial laundry wastewater does not have applicable Categorical Pretreatment Standards and the limits in RCSA Section 22a-430-4(s)(2) do not apply to this wastewater category. Therefore, only monitoring will be required.

**Total Suspended Solids (“TSS”):** The AML, MDL, and MIL are carried forward from the previous permit in accordance with the anti-backsliding regulation, Section 22a-430-4(l)(4)(D)(vi) of the RCSA.

**Zinc, Total:** The AML, MDL, and MIL are carried forward from the previous permit in accordance with the anti-backsliding regulation, Section 22a-430-4(l)(4)(D)(vi) of the RCSA.

## 5. 7 Summary of Changes Made to New Permit

The changes made to the permit are as noted below.

- **Definition for Quarterly Sampling:** The definition for quarterly sampling has been updated to March, June, September, and December. In the previous iteration of the term, quarterly sampling was defined as January, April, July, and October. This change is made to align sampling months with other recently issued pretreatment permits.
- **Removal of Phosphorous, Total Footnote:** During the last permit term, at the request of the Meriden POTW, Table A contained a condition stating,

*"If the reported concentration of total phosphorous exceeds 1.5 mg/L for two (2) consecutive quarters, the Permittee shall be required to begin monthly sampling for total phosphorous. Such monthly sampling shall continue for the life of the permit. The results of the monthly sampling for total phosphorous shall be reported directly to the Director of the Department's Water Permitting and Enforcement Division and the Meriden POTW."*

During the previous 10-year permit term, total phosphorus remained below 1.5 mg/L, hence this condition has been removed in this iteration of the permit. However, the permittee will still be required to monitor quarterly for total phosphorous.

## **SECTION 6.0 E-REPORTING**

The Permittee and/or the Signatory Authority shall electronically submit DMRs and reports required under this permit to the Department using NetDMR, in satisfaction of the DMR submission requirement of Section 5(D) of this permit.

DMRs shall be submitted electronically no later than the last day of the month following the required sampling period.

All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. The Permittee shall also electronically file any written report of non-compliance described in Section 6 of this permit as an attachment in NetDMR.

NetDMR is accessed from: <https://npdes-ereporting.epa.gov/net-netdmr>.

## **SECTION 7.0 PUBLIC PARTICIPATION PROCEDURES**

### **7.1 Information Requests**

The application has been assigned the following numbers by the Department of Energy and Environmental Protection. Please use these numbers when corresponding with this office regarding this application.

Application No. 202404947

Permit No. SP0000886

Interested persons may obtain copies of the application from:

R. William Hekeler  
Magnakleen Services LLC  
112 Empire Avenue  
Meriden, CT 06450  
(203) 237 – 0025

The application is available for inspection by contacting Ryan Bellucci at 860-424-3741 and [ryan.bellucci@ct.gov](mailto:ryan.bellucci@ct.gov) at the Water Permitting and Enforcement Division, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, from 8:30 - 4:30, Monday through Friday.

Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the name and mailing address of the interested person and the area for which notices are requested.

### **7.2 Public Comment**

Prior to making a final determination to approve or deny any application, the Commissioner shall consider written comments on the application from interested persons that are received within thirty (30) days of this public notice. Written comments should be directed to Ryan Bellucci, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106 5127 or [DEEP.Pretreatment@ct.gov](mailto:DEEP.Pretreatment@ct.gov). The Commissioner may hold a public hearing prior to approving or denying an application if in the Commissioner's discretion the public interest will be best served thereby, and shall hold a hearing upon receipt of a petition signed by at least twenty-five (25) persons. Notice of any public hearing shall be published at least thirty (30) days prior to the hearing.

### **7.3 Petitions for Hearing**

Petitions shall be submitted within thirty (30) days from the date of publication of this public notice and should include the application number noted above and also identify a contact person to receive notifications. Petitions may also identify a person who is authorized to engage in discussions regarding the application and, if resolution is reached, withdraw the petition. Upon

receipt of a petition, the Commissioner shall take action as required by relevant laws, including Public Act 25-84, which was effective upon passage in June 2025. The Office of Adjudications will accept electronically-filed petitions for hearing in addition to those submitted by mail or hand-delivered. Petitions with required signatures may be sent to [deep.adjudications@ct.gov](mailto:deep.adjudications@ct.gov); those mailed or delivered should go to the DEEP Office of Adjudications, 79 Elm Street, Hartford, CT 06106. If the signed original petition is only in an electronic format, the petition must be submitted with a statement signed by the petitioner that the petition exists only in that form. Original petitions that were filed electronically must also be mailed or delivered to the Office of Adjudications within 30 days of electronic submittal. Additional information can be found at [www.ct.gov/deep/adjudications](http://www.ct.gov/deep/adjudications).

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). If you are seeking a communication aid or service, have limited proficiency in English, wish to file an ADA or Title VI discrimination complaint, or require some other accommodation, including equipment to facilitate virtual participation, please contact the DEEP Office of Diversity and Equity at 860-418-5910 or by email at [deep.accommodations@ct.gov](mailto:deep.accommodations@ct.gov). Any person needing an accommodation for hearing impairment may call the State of Connecticut relay number - 711. In order to facilitate efforts to provide accommodation, please request all accommodations as soon as possible following notice of any agency hearing, meeting, program, or event.

## Attachment A: Wastewater Treatment System Diagram

## NOTES

1. Pump 2 is interlocked with coagulant, lime and polymer feed pumps.
2. Acid and caustic pumps are interlocked with pH controller.
3. Level controls (LCs) are interlocked with subsequent transfer pumps.

