

# Underground Injection Control Program Fact Sheet

## SECTION 1.0 FACILITY SUMMARY

<b>APPLICANT</b>	34 Wildwood Ave. Opco, LLC
<b>PERMIT NO.</b>	UI0000273
<b>APPLICATION NO.</b>	201806832
<b>DATE APPLICATION RECEIVED</b>	May 4, 2018
<b>LOCATION ADDRESS</b>	34 Wildwood Avenue Madison, CT 0443
<b>FACILITY CONTACT</b>	Steve Gluck Regional Maintenance Director <a href="mailto:sgluck@autumnhc.net">sgluck@autumnhc.net</a>
<b>MAILING DDRESS</b>	34 Wildwood Avenue Madison, CT 06443
<b>PERMIT TERM</b>	10 Years
<b>PERMIT TYPE</b>	Renewal
<b>PERMIT CATEGORY</b>	UIC Class V Injection Well
<b>TREATMENT DESCRIPTION</b>	5W12 Alternative Treatment
<b>OWNERSHIP</b>	Private
<b>COMPLIANCE SCHEDULE</b>	Yes
<b>RECENT ENFORCEMENT HISTORY</b>	N/A
<b>RECEIVING WATERBODY</b>	Neck River Watershed
<b>WATER QUALITY CLASSIFICATION(S)</b>	GA
<b>DISCHARGE LOCATION(S)</b>	DSN 301-2
<b>DEEP STAFF ENGINEER</b>	Antoanela Daha, <a href="mailto:antoanela.daha@ct.gov">antoanela.daha@ct.gov</a>

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## **SECTION 2.0 PERMIT FEES**

Discharge Code: 312000a Representing: DSN 301-2 Annual Fee: \$1,110

## **SECTION 3.0 NATURE OF BUSINESS GENERATING DISCHARGE**

34 Wildwood Ave. Opco, LLC presently discharges 18,000 gallons per day domestic sewage from the operation of an assisted living and rehabilitation healthcare facility.

## **SECTION 4.0 PROJECT HISTORY**

On May 4, 2018, Harborside Connecticut Limited Partnership (“permittee” or “applicant”) submitted a renewal application, (Application No. 201806832) for the discharge of domestic sewage to a subsurface sewage treatment and disposal system from the Madison House facility in Madison, Connecticut.

On June 26, 2018, DEEP issued a Notice of Insufficiency (“NOI”) for missing Attachment Q (“Engineering Report”) of the application. The permittee did not respond to the NOI and on August 28, 2023, a second NOI was issued requesting the submittal of Attachment Q. The permittee provided the requested information on November 21, 2023, and upon review a Notice of Sufficiency was issued on November 29, 2023.

During the technical review of the Engineering Report, and subsequent requests for additional information, DEEP was notified that there was a change in ownership at the facility. On April 22, 2024, a transfer of ownership application form was received, however the permittee failed to remit the required fees to process the application. Once all fees had been paid DEEP approved the transfer ownership for the current permit and pending renewal application on November 25, 2024.

DEEP completed the review of the application and additional supporting information, including a detailed review of the Discharge Monitoring Reports and determined the subsurface sewage treatment and disposal system is functioning properly. The effluent quality is generally meeting the existing permit limits for biochemical oxygen demand<sub>5-day</sub>, total suspended solids, and total nitrogen. Although the average nitrogen concentration is met only 38% of the time, the concentrations are exceeded by a minimal amount. The ground water monitoring shows general compliance with the drinking water standards.

## **SECTION 5.0 SITE INSPECTION**

On December 20, 2024, DEEP and the permittee’s representatives completed a site inspection. During the inspection, DEEP staff, the treatment plant operator, and the permittee’s engineer reviewed the operation, maintenance, and reporting requirements included in the permit. During the inspection, the operator mentioned that for the last four years the influent wastewater strength has weakened, and it has been difficult to maintain the targeted Mixed Liquid Suspended Solids (“MLSS”) for proper treatment. The permittee’s engineer suggested that to improve treatment, mainly for nitrogen removal efficiency, an additional carbon source may be necessary. During the

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inspection, the engineer noticed that the monitoring ports for the leaching fields were missing, therefore the required visual observations to determine if ponding is occurring in the leaching field were not performed. DEEP observed several grown trees in the proximity of the leaching fields. The engineer's recommendation was to investigate potential adverse effects of such trees on the leaching field and propose their removal, if needed.

As a result of the findings from the site inspection and occasional noncompliance with the permit effluent limits, the Department is issuing a Notice of Noncompliance and the proposed permit will include permit conditions with a compliance schedule to address the existing operational deficiencies.

### **SECTION 6.0 PROCESS AND TREATMENT DESCRIPTION (by DSN)**

**Conventional Treatment ( )      Alternative Treatment (X)      RECYCLE ( )**

DSN 301-2 represents the discharge from the existing alternative sewage treatment system consisting of a collection system, grease traps, equalization tanks, two stage anoxic reactors, aeration tanks, clarifiers and tertiary filter followed by three pressure dosed leaching beds.

### **SECTION 7.0 COMPLIANCE SCHEDULE**

Does the permit include a compliance schedule?      YES (X)      NO ( )

The proposed permit includes the following compliance schedules:

- 1) To record the permit in the town's land records;
- 2) To submit the results of a systems evaluation and recommendations for treatment improvements report within six (6) months of the permit issuance;
- 3) To implement the improvements within 12 months of permit issuance; and
- 4) To submit the results of a detailed permit compliance, audit every two years.

### **SECTION 8.0 BASIS FOR LIMITATIONS, PERMIT STANDARDS OR CONDITIONS**

In accordance with section 22a-430 of the Regulations of Connecticut State Agencies ("RCSA"), DEEPs "Guidance for Design of Large-Scale On-Site Wastewater Renovation Systems," (February 2006), and DEEP's review of the permit application, site investigation and hydraulic capacity modeling, and pollutant analyses of the wastewater, a determination has been made that there is a need for an alternative wastewater treatment system to protect the ground water from pollution. The alternative wastewater treatment system is designed to treat wastewater and remove pollutants before being discharged to the pressure distribution leaching bed.

#### **8.1 Advanced Wastewater Treatment**

The wastewater discharging to the alternative treatment plant and entering the leaching bed was designed to meet the following parameters:

- Average daily flow: 12,000 gallons per day
- Maximum daily flow: 18,000 gallons per day

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- Daily minimum and maximum: pH: 6.0 – 9.0 s.u.

<b>Parameter</b>	<b>Average Monthly Limit</b>	<b>Maximum Daily Limit</b>
Biochemical Oxygen Demand <sub>5-day</sub>	20 mg/L	30 mg/L
Total Suspended Solid	20 mg/L	30 mg/L
Total Nitrogen	12 mg/L (12-month rolling average)	18 mg/L

Monitoring of additional parameters, such as nitrate, has been included in the permit to quantify nitrogen loading and to validate design criteria and year-round operations of the treatment system.

### **8.2 Leaching Bed Requirements**

The three leaching beds with the dimensions of 100ft x 51ft each, for a total of 15,300 sq.ft are designed to accept 18,000 gallons per day.

The leaching bed and the unsaturated zone beneath it are designed to absorb phosphorus and the absorption rate has been demonstrated through calculations thus limiting the discharge significant concentrations of phosphorus to the groundwater.

Bacteria and virus inactivation is achieved as partially treated wastewater continues to flow through the unsaturated area under the leaching bed and downgradient of it. In accordance with the DEEPs design criteria, the minimum required travel time for the wastewater to all points of environmental concern is not less than 21 days.

### **8.3 Groundwater Monitoring Requirements**

Groundwater monitoring at the edge of the property is required to ensure the treated domestic wastewater does not cause pollution. Groundwater leaving the site boundaries must meet the primary maximum contaminant levels (MCLs) in the Safe Drinking Water Act. Groundwater will be monitored for the following parameters: depth to groundwater (feet), nitrate, as N (mg/L), nitrite, as N (mg/L), ammonia, as N (mg/L), total Kjeldahl nitrogen, as N (mg/L), and total nitrogen, as N (mg/L), total phosphorus as P (mg/l), pH (standard units), and total coliform.

## **SECTION 9.0 VARIANCES AND WAIVERS**

The facility did not request a variance or a waiver.

## **SECTION 10.0 E-REPORTING**

The permittee is required to electronically submit discharge monitoring reports.

## **SECTION 11.0 PUBLIC PARTICIPATION PROCEDURES**

### **11.1 Information Requests**

Interested persons may obtain copies of the application from Nathan L. Jacobson and Associates, Inc., 86 Main Street, P.O. Box 337, Chester, CT 06412, telephone number 860-526-9591.

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The application is available for inspection by contacting Antoanela Daha at 860-424-3876 or [antoanela.daha@ct.gov](mailto:antoanela.daha@ct.gov), at the Department of Energy and Environmental Protection, Bureau of Materials Management and Compliance Assurance, 79 Elm Street, Hartford, CT 06106-5127 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.

### **11.2 Public Comment**

Prior to making a final decision 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 Antoanela Daha, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127 or [DEEP.UICPermittong@ct.gov](mailto:DEEP.UICPermittong@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 persons. Notice of any public hearing shall be published at least thirty (30) days prior to the hearing.

### **11.3 Petitions For Hearing**

Petitions for a hearing 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. 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 thirty (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

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accommodation, please request all accommodations as soon as possible following notice of any agency hearing, meeting, program, or event.

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