

# Underground Injection Control Program Fact Sheet

## SECTION 1.0 FACILITY SUMMARY

<b>APPLICANT</b>	Flanders Run Association, Inc.
<b>PERMIT NO.</b>	UI0000044
<b>APPLICATION NO.</b>	200302420
<b>DATE APPLICATION RECEIVED</b>	August 22, 2003
<b>LOCATION ADDRESS</b>	Flanders Run Condominium Association, 32 Upper Pattagansett Road, East Lyme, CT 06333
<b>FACILITY CONTACT</b>	Steven Anderson, Community Manager KP Management, LLC Telephone: 860-659-3802 <a href="mailto:email@kpmanagementllc.com">email@kpmanagementllc.com</a>
<b>MAILING ADDRESS</b>	Vincentina Fornale Treasurer 32 Upper Pattagansett Road, Unit #15, East Lyme, CT 06333
<b>PERMIT TERM</b>	10 Years
<b>PERMIT TYPE</b>	Renewal
<b>PERMIT CATEGORY</b>	UIC Class V Injection Well
<b>TREATMET DESCRIPTION</b>	5W12 Alternative Treatment and 5W11 Conventional System
<b>OWNERSHIP</b>	Private
<b>COMPLIANCE SCHEDULE</b>	Yes
<b>RECENT ENFORCEMENT HISTORY</b>	None
<b>RECEIVING WATERBODY</b>	Groundwater, Pattagansett Watershed
<b>WATER QUALITY CLASSIFICATIONS</b>	GA
<b>DISCHARGE LOCATIONS</b>	DSN 301-2, DSN 302-2

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**DEEP STAFF ENGINEER**

Antoanela Daha, [Antoanela.daha@ct.gov](mailto:Antoanela.daha@ct.gov)

## SECTION 2.0 PERMIT FEES

Discharge Code: <u>312000a</u>	Representing: DSN <u>301-2</u>	} Annual Fee: <u>\$1,110</u>
Discharge Code: <u>312000a</u>	Representing: DSN <u>302-2</u>	

## SECTION 3.0 PROJECT HISTORY

Application No. 200302420 was received on August 22, 2003, for a permit renewal for the discharge of domestic sewage to two subsurface sewage treatment and disposal systems from the existing condominium complex in East Lyme, Connecticut. Following the review of the application, additional information in the administrative record, past Discharge Monitoring Reports and recent monthly inspection reports, the two treatment and disposal systems were found to be functioning properly. The application included a summary of the groundwater monitoring results showing compliance with the drinking water standards. A file search revealed that the applicant has not submitted discharge reports since December 2015. The 2015 groundwater monitoring reports show compliance with the drinking water standards. A site visit was conducted on March 5, 2024, followed by the DEEP recommendations to ensure compliance with terms and conditions of the continued permit. On April 23, 2024, the Permittee submitted an follow up report identifying minor recommendations for improvements, such as re-setting baffles, removing overgrown vegetation from the area of one of the D-boxes to avoid potential damage, and repair clean outs, however it's unclear if the permittee implemented the recommendations. The inspection report didn't include the groundwater monitoring results. On May 8, 2024, the permittee was issued a Notice of Non-Compliance ("NNC") requesting the testing of the monitoring wells in accordance with the requirements of the continued permit.

## SECTION 4.0 NATURE OF BUSINESS GENERATING DISCHARGE

Flanders Run Association, Inc. discharges domestic sewage from a condominium complex.

## SECTION 5.0 PROCESS AND TREATMENT DESCRIPTION (by DSN)

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

DSN 301-2 represents the discharge from the existing alternative sewage treatment system consisting of two black water tanks, two gray water tanks, a sand filter and a rock filter prior to discharging to a 5,500 sf leaching field consisting of 408 ft of 4x4 leaching galleries.

DSN 302-2 represents the discharge from the existing conventional sewage treatment system consisting of two septic tanks and a pump chamber prior to discharging to a 5,250 sf leaching field consisting of 389 ft of 4x4 leaching galleries.

## SECTION 6.0 COMPLIANCE SCHEDULE

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

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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 detailed permit compliance evaluation report, six months after the permit issuance; and
- 3) submit the results of a detailed permit compliance audit after five years.

## **SECTION 7.0 BASIS FOR LIMITATIONS, PERMIT STANDARDS OR CONDITIONS**

In accordance with section 22a-430, DEEPs Seepage and Pollutant Renovation (1982) and based on review of the permit application, a determination has been made that there was a need for one of the systems to include an alternative wastewater treatment system to protect the ground water from pollution. The alternative wastewater treatment is designed to treat wastewater and remove pollutants by utilizing separating the black water from the gray water and combining them in a sand filter and rock filter prior to being discharged to the leaching field. The second system is a conventional subsurface sewage disposal system consisting of septic tanks, a pump chamber followed by a leaching field.

### **7.1 Alternative Wastewater Treatment**

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

- Average daily flow: 4,400 gallons per day
- Maximum daily flow: 6,600 gallons per day
- Daily minimum and maximum: pH: 6.0 – 9.0 s.u.

Monitoring of additional parameters, such as effluent from the rock filter, has been included in the permit to monitor the performance of the alternative biological treatment however, limits have not been established for the effluent. Based on the information included in the DEEP files, the soils under and downgradient of the leaching field have the capacity to further treat the effluent to meet the drinking water standards at the point of environmental based on the existing records.

### **7.1 Conventional Wastewater Treatment**

The wastewater discharging to the conventional septic system and entering the leaching field was designed to meet the following parameters:

- Average daily flow: 2,800 gallons per day
- Maximum daily flow: 4,200 gallons per day

Based on the information included in the DEEP files, the soils under and downgradient of the leaching field have the capacity to treat the effluent to meet the drinking water standards at the point of environmental based on the existing record.

### **7.2 Leaching Bed Requirements**

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The leaching field receiving effluent from the alternative wastewater treatment was designed to accept 6,600 gallons per day and has a total area of 5,500 sf leaching field consisting of 408 ft of 4x4 leaching galleries.

The leaching field receiving effluent from the conventional wastewater treatment was designed to accept 4,200 gallons per day and has a total area of a 5,250 sf leaching field consisting of 389 ft of 4x4 leaching galleries.

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.

### **7.3 Groundwater Monitoring Requirements**

Groundwater monitoring at the point of environmental concern 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 8.0 VARIANCES AND WAIVERS**

The facility did not request a variance or a waiver.

### **SECTION 9.0 E-REPORTING**

The permittee is required to electronically submit Discharge Monitoring Reports.

### **SECTION 10.0 PUBLIC PARTICIPATION PROCEDURES**

#### **10.1 Information Requests**

Interested persons may obtain copies of the application from Flanders Run Association, Inc., 693 Main Street, South Glastonbury, CT 06073.

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

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writing the name and mailing address of the interested person and the area for which notices are requested.

### 10.2 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.UICPermitting@ct.gov](mailto:DEEP.UICPermitting@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.

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

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