

# Underground Injection Control Program Fact Sheet

## SECTION 1.0 FACILITY SUMMARY

<b>APPLICANT</b>	Eden Harbour Condominium Association, Inc.
<b>PERMIT NO.</b>	UI0000328
<b>APPLICATION NO.</b>	201602281
<b>DATE APPLICATION RECEIVED</b>	February 18, 2016
<b>LOCATION ADDRESS</b>	175 Ferry Road Old Saybrook, CT 06475
<b>FACILITY CONTACT</b>	Robert Judge EHCA President robertpjudge@sbcglobal.net
<b>MAILING ADDRESS</b>	PO Box 474 Old Saybrook, CT 06475
<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 Advanced Treatment
<b>OWNERSHIP</b>	Private
<b>COMPLIANCE SCHEDULE</b>	No
<b>RECENT ENFORCEMENT HISTORY</b>	N/A
<b>RECEIVING WATERBODY</b>	Groundwater in the Connecticut River Watershed
<b>WATER QUALITY CLASSIFICATION(S)</b>	GA
<b>DISCHARGE LOCATION(S)</b>	DSN 301-2
<b>DEEP STAFF ENGINEER</b>	Abigail Donahue, Abigail.Donahue@ct.gov

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## SECTION 2.0 PERMIT FEES

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

## SECTION 3.0 PROJECT HISTORY

On February 18, 2016, a permit renewal application (No. 201602281) was received for the discharge of domestic sewage to a subsurface sewage treatment and disposal system from Eden Harbour Condominium Association, Inc., in Old Saybrook, Connecticut. On March 10, 2016, DEEP issued a Notice of Sufficiency for this application. DEEP's technical review of the application concluded that the Engineering Report (Attachment Q of the application) was sufficient, but requested the most recent Discharge Monitoring Reports. DEEP performed a site visit on June 18, 2024. DEEP completed the review of the application and additional information, including a detailed review of the Discharge Monitoring Reports and determined the subsurface sewage treatment and disposal system was functioning properly. The effluent quality is generally meeting the permit limits and the ground water monitoring shows compliance with the drinking water standards.

## SECTION 4.0 NATURE OF BUSINESS GENERATING DISCHARGE

Eden Harbour Condominium Association, Inc. operates age-restricted active adult condominiums.

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

Conventional Treatment ( )      Advanced Treatment (X)      RECYCLE ( )

DSN 301-2 represents the discharge from the existing alternative sewage treatment system consisting of an anaerobic chamber, a surge basin, a Sequential Batch Reactor, an effluent tank, and effluent dosing pumps followed by precast concrete gallery leaching units.

## SECTION 6.0 COMPLIANCE SCHEDULE

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

## SECTION 7.0 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 advanced wastewater treatment system to protect the ground water from pollution. The advanced wastewater treatment system is designed to treat wastewater and remove pollutants before being discharged to the leaching bed.

### 7.1 Advanced Wastewater Treatment

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

- Average daily flow: 6,000 gallons per day
- Maximum daily flow: 9,000 gallons per day
- Daily minimum and maximum: pH: 6.0 – 9.0 s.u.

Parameter	Average Monthly Limit	Maximum Daily Limit
Biochemical Oxygen Demand <sub>5-day</sub>	20 mg/L	30 mg/L
Total Suspended Solid	20 mg/L	30 mg/L
Total Nitrogen	10 mg/L (12-month rolling average)	N/A

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.

## 7.2 Leaching Bed Requirements

The two leaching system comprised of 4-foot-wide by 1-foot-high precast concrete gallery leaching units, each 8 feet in length, are arranged in six rows. The footprint of the leaching beds is approximately 7,560 square feet and is designed to accept 9,000 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.

## 7.3 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 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.

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## SECTION 10.0 PUBLIC PARTICIPATION PROCEDURES

### 10.1 Information Requests

Interested persons may obtain copies of the application from Robert Judge, [robertjudge@sbcglobal.net](mailto:robertjudge@sbcglobal.net), home telephone number 860-876-2336.

The application is available for inspection by contacting Abigail Donahue at 860-424-3719 or [Abigail.Donahue@ct.gov](mailto:Abigail.Donahue@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 AM to 4:30 PM, 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.

### 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 Abigail Donahue, 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).

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