

# Underground Injection Control Program Fact Sheet

## SECTION 1.0 FACILITY SUMMARY

<b>APPLICANT</b>	Valley Shore YMCA, Inc.
<b>PERMIT NO.</b>	UI0000347
<b>APPLICATION NO.</b>	201800141
<b>DATE APPLICATION RECEIVED</b>	January 2, 2018
<b>LOCATION ADDRESS</b>	201 Spencer Plains Road Westbrook, CT 06498
<b>FACILITY CONTACT</b>	Chris Pallatto and Tony Sharillo
<b>MAILING DDRESS</b>	201 Spencer Plains Road, P.O. Box Westbrook, CT 06498
<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>	Yes
<b>RECENT ENFORCEMENT HISTORY</b>	N/A
<b>RECEIVING WATERBODY</b>	Groundwater in the South Central Shoreline 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 PROJECT HISTORY

On January 2, 2018, a permit renewal application (No. 201800141) was received for the discharge of domestic sewage to a subsurface sewage treatment and disposal system from Valley Shore YMCA, Inc., in Westbrook, Connecticut. On February 20, 2018, 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 deficient and lacking the summary of the Discharge Monitoring Reports. DEEP made several attempts to obtain the missing information and a final Request for Additional Information letter was sent to the Applicant on August 8, 2023. The Applicant submitted a revised Engineering Report on November 17, 2023. 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 meeting the permit limits and the ground water monitoring shows compliance with the drinking water standards.

## SECTION 4.0 NATURE OF BUSINESS GENERATING DISCHARGE

Valley Shore YMCA, Inc. operates a community center and a recreational facility.

## 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 two septic tanks, a Modular Fixed Activated Sludge Treatment ("FAST") system, and a denitrifying filter followed by two 81ft x 52ft pressure dosed leaching beds for a total of 9,425 sq.ft of leaching area.

## SECTION 6.0 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 detailed permit compliance, audit every two years.

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## 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 pressure distribution leaching bed.

### 7.1 Advanced Wastewater Treatment

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

- Average daily flow: 8,200 gallons per day
- Maximum daily flow: 10,700 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 beds with the dimensions of 81ft x 52ft each, for a total of 9,425 sq.ft are designed to accept 10,700 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

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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 Nathan L. Jacobson and Associates, Inc., 86 Main Street, P.O. Box 337, Chester, CT 06412, Telephone number 860-526-9591

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.

#### 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.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.

#### 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

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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.