



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

February 28, 2008

Russell E. Prescott
R E Prescott
10 Railroad Avenue
Exeter, New Hampshire 03833

**Subject: CWS Rindge: Rindge Senior Housing; EPA ID: New System
NHDES #999014**

Dear Mr. Prescott:

The purpose of this letter is to approve your January 25, 2008 Water Conservation Plan for the Rindge Senior Housing Complex in Rindge, NH. The plan was submitted to meet the requirements of New Hampshire Administrative Rule Env-Ws 390, *Water Conservation*.

The January 25, 2008 Water Conservation Plan (WCP) for the subject water system is approved as proposed. Every three years from the date of this letter the water system shall supply the New Hampshire Department of Environmental Services (NHDES) with documentation of compliance with the plan. This information shall be supplied on a form provided by NHDES and shall include contact information for the water system owner and the person responsible for carrying out the tasks of the plan, all data relating to meter reading, water audits, leak detection, public outreach, and the dates these tasks were performed.

If you have any questions about this letter or any other water conservation issues please feel free to call me at **271-6685** or email me at derek.bennett@des.nh.gov

Sincerely,

Derek S. Bennett
Water Conservation
Drinking Water and Groundwater Bureau

Ec: Diana Morgan, Jim Gill DWGB
Tim Murphy, Southwest Region Planning Commission

Cc: Richard Mellor, Nancy Martin - Town of Rindge



R.E. Prescott Co., Inc.

Mechanical Equipment and Professional Engineering

10 Railroad Ave. - Exeter, N.H. - 03833-0339

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1-888-786-7482

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February 5, 2008

Richard Mellor, Chairman
C/O Town of Rindge
Conservation Commission
30 Payson Hill Road
Rindge, NH 03461

Nancy Martin, Clerk
C/O Town of Rindge
Town Clerk
30 Payson Hill Road
Rindge, NH 03461

Subject: Public notification, water conservation plan.
Senior Housing Complex Community Water System
Rindge, NH

Dear Richard Mellor and Nancy Martin,

Attached for your review and comment is the water conservation plan for the Senior Housing Complex, a proposed new community water system of 30 2- bedroom units in Rindge, NH. This notice is in accordance with New Hampshire Department of Environmental Services (NHDES) Rule Env-Ws-390. Also available for your review is a copy of the Well-Siting application at NHDES in Concord, NH. Contact person is Diana Morgan, P. G. at 603-271-2947.

The NHDES rule requires the owner perform this public notice and request that you review and/or amend these plans to promote water conservation landscaping principles. In addition in accordance with Env-Ws 390 it is requested that site planning requirements be amended to reflect the requirements of Env-Ws 390 to promote water conservation for new projects. The 2-page fact sheet enclosed summarizes this rule. Per this rule the comment period is 21 days from your receipt of this information.

For the water conservation plan please address comments to:

Derek S. Bennett
NHDES- DWGB
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

Very Truly Yours,
R.E. Prescott Co., Inc.

Russell E. Prescott, P.E.

Water Conservation Plan

Small Community Water Systems

PROJECT NAME: Senior Housing Complex - Town of Rindge, NH
TOWN/CITY: Rindge, NH
DATE: January 25, 2008
EPA ID # New System

Section 1.0 GENERAL INFORMATION

1.1 Project Contacts / System Ownership

1.1a Project Contact

Name: Russell E. Prescott, PE
Address: 10 Railroad Avenue, Exeter NH 03833
Company: R.E. Prescott Co., Inc.
Phone Number: 603.772.4321

1.1b Project Owner

Name: Town of Rindge
Address: 30 Payson Hill Road, PO Box 163, Rindge NH 03461
Phone Number: 603.899.5181

1.1c Person responsible for completing the activities outlined in this plan

It is proposed that the future water system operator complete the activities outlined in this plan.

1.1d Will ownership of the water system be transferred at a future date from the person listed in 1.1b to a homeowner's association or other entity?

YES

1.2 Type of Water System

1.2a is this a new source for a new or existing community water system owned by a landlord who supplies water to tenants and includes water service in rental fee?

NO

1.2b is this a new source for an existing community water system that does not meet the definition in 1.2a?

NO

1.2c is this a new source for a new community water system that does not meet the description in 1.2a above?

YES (If YES, you must complete Sections 2.1 and 3.0 through 6.0)

Section 2.0 METERS, UNACCOUNTED FOR WATER, AUDITS, AND LEAK DETECTION

2.1 New Small Community Water Systems

2.1a Meter Selection and Installation

Meters must be installed on all sources of water and at each service connection on new small community water systems that do not meet the definition of 2.1a above. Describe below the size of both the source and service connection meters to be utilized by the water system. (In selecting and installing water meters, the water system must comply with procedures and protocols described in “Manual of Water Supply Practices, Water Meters”, document AWWA M6, available from the American Water Works Association. www.awwa.org/bookstore)

This proposed CWS proposes to install properly sized water meters for each well and each service in accordance with AWWA standards. In selecting, installing, and maintaining water meters, the water system will comply with procedures and protocols described in “Manual of Water Supply Practices, Water Meters”, document AWWA M6, available from the American Water Works Association at www.awwa.org/bookstore

2.1b Meter Reading Frequency

Describe below the frequency in which each type of meter will be read. (Source meters must be read at least every 30 days and service meters must be read at least every 90 days.)

Each source meter shall be read every 30 days, each service meter shall be read every 90 days, and a log of water use should be maintained for water audit and leak detection in accordance with AWWA M36.

2.1c Meter Maintenance / Calibration

Describe the water systems meter maintenance plan and calibration schedule. (In maintaining water meters, the water system must comply with procedures and protocols described in “Manual of Water Supply Practices, Water Meters”, document AWWA M6, available from the American Water Works Association. www.awwa.org/bookstore)

Water meters shall be maintained in accordance with AWWA M6 guidelines.

2.1d Estimating Unaccounted-for Water

Describe how often the water system will estimate unaccounted for water. Unaccounted-for water means water for which a specific use cannot be determined due to accounting procedure errors, data processing errors, meter inaccuracies, authorized water use that does not pass through meters, leaks, seepage, overflow, evaporation, theft, unauthorized water use, or

malfunctioning distribution controls. (Estimates of unaccounted-for water must be performed at least once a year. If unaccounted-for water exceeds 15 percent, the system shall develop a response plan in accordance with Env-Ws 390.05(j) and (k), and submit it to the DES within 60 days. The water system must implement the response plan upon receiving approval from DES.)

The future water system operator shall maintain monthly water use records of the source meter(s) and the master pump house meter. The future water system operator shall maintain quarterly water use records of each service meter. Each quarter the water system operator will perform calculations to determine unaccounted-for water use. If unaccounted-for water exceeds 15 percent, the system shall develop a response plan in accordance with Env-Ws 390.05(j) and (k), and submit it to the DES within 60 days. The water system must implement the response plan upon receiving approval from DES.

2.1e Water Audit and Leak Detection Program

Describe below who will be responsible for conducting a leak detection survey, the frequency of the surveys and a description of how those surveys will be conducted. (Surveys for existing systems that are opting out of metering service connections shall be performed at least every two years. Leaks identified by the survey must be repaired within 60 days of discovery unless a waiver is obtained from the DES. The requirements of this section of the rule must follow the standards set forth in AWWA M36, Manual of Water Supply Practices, Water Audits and Leak Detection, available from the American Water Works Association. www.awwa.org/bookstore). (All new small community water systems must meet this requirement.)

Every two years the water system will conduct a water audit including leak detection of all waterlines in accordance with AWWA M36. The water system will estimate unaccounted-for water as described above. In the case of leak detection, such leak shall be repaired within 60 days. At the time of the audit if the percentage of unaccounted for water exceeds 15% of well volume the water system will submit a response plan to NHDES within 60 days. This plan will identify how the water system intends to reduce the percentage of unaccounted for water use to below 15% within 2 years, except for detected leaks, which should be repaired within 60 days. After working with NHDES for approval of a Water Conservation Plan the water system will implement the plan.

This work is proposed to be done or supervised by the future water system certified operator.

Section 3.0 PRESSURE REDUCTION

(Pressure reduction shall be implemented upon obtaining approval of a new source of water when it is technically feasible, consistent with industry standards, and consistent with public health and safety considerations. Existing small community water systems have one year after approval of the conservation plan to implement this requirement, if feasible. All pressure reduction measures must meet the requirements of Env-Ws 372, Design Standards for Small Community Public Water Systems.)

Is pressure reduction technically feasible for this system? If YES, explain below how it will be accomplished for the system. If NO, explain why below.

YES. To conserve water, pressure reduction for this new CWS may be technically feasible, consistent with industry standards, and consistent with public health and safety considerations. All pressure reduction measures to meet the requirements of Env-Ws 372, Design Standards for Small Community Public Water Systems.

The elevation changes for this CWS may allow the pump house to operate at a reduced pressure setting for the whole system.

Section 4.0 CONSERVATION RATE STRUCTURE

(All new small community water systems must adopt a rate structure as described in Env-Ws 390.04.)

Describe below the conservation rate structure the water system proposes adopting, or if not practical or feasible for the system, describe below how the water system will manage water service fees to meet the intent of the rule and promote water conservation. (You will need to fill out a waiver application form found at the end of this document.)

The water rate structure will be a flat rate as set by the Rindge association. The association will notify NHDES when a rate structure is adopted.

Section 5.0 PUBLIC NOTIFICATION

(Within seven days of submitting the final water conservation plan for review by the DES a small community water system must provide a copy of this report via certified mail to the governing board of the municipality in which a proposed source is located, to all wholesale customers [if any], and to the regional planning commission for the location of the proposed source. The water system shall supply the governing boards with a copy of a summary of the requirements of Env-Ws 390. This document can be found at http://www.des.nh.gov/h2o_conservation.htm. You must also note in your correspondence to the above-mentioned governing boards that a copy of the Well Siting Application is available for their review at the DES and provide them with DES contact information. The water system shall request that the governing boards amend any site plan submitted to them for review so that it reflects the requirements of Env-Ws 390 and promotes water conservation landscaping principals.)

List the names and addresses of the governing boards receiving public notification. Attach a copy of the cover letter sent to the governing boards and a copy of the certified mail receipts when available. List the educational/outreach materials that the system is providing to the municipalities for review.

A copy of this report via certified mail has been sent to the town of Rindge, NH and to the Conservation Commission along with a copy of a summary of the requirements of Env-Ws 390. A cover letter was written to request that the town of Rindge, NH amend any site plan submitted to them for review so that it reflects the requirements of Env-Ws 390 and promotes water conservation landscaping principals.

The names and addresses of those receiving public notification are on the cover page of this document. Copies of the cover letter sent to the governing boards. "Water Conservation at Home" educational outreach material was also mailed.

6.0 PROPOSED EDUCATIONAL OUTREACH INITIATIVES

Implemented immediately upon approval of the conservation plan, pertinent water efficiency fact sheets found at the NHDES website shall be included with the yearly consumer confidence water system reports. The person responsible for the Conservation Program will be the water system operator or supervised by the water system operator. The typical educational outreach fact sheets are available at the NH DES website referenced above and are DWGB-26-2 "Water Efficiency Practices for Domestic Indoor Water Use" and DWGB-26-3 "Water Efficiency Practices for Outdoor Water Use".

Prepared by R. E. Prescott Co., Inc., Russell E. Prescott, PE Vice President

Preparer's Signature: _____

Date: _____