



The

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES

hereby issues

LARGE GROUNDWATER WITHDRAWAL PERMIT

NO. LGWP-2003-0001A

to the permittee

AQUARION WATER COMPANY OF NEW HAMPSHIRE
7 SCOTT ROAD
HAMPTON, NH 03842
(603-926-3319)

for the withdrawal of the following volumes of groundwater from the following wells located at the Mill Road Facility in North Hampton, New Hampshire for the purpose of community water supply:

Well 20	246,240 gallons over any 24-hour period
Well 21	273,600 gallons over any 24-hour period

Date of Issuance: November 19, 2013

Date of Expiration: November 19, 2023

Pursuant to authority in N.H. RSA 485-C:21, the New Hampshire Department of Environmental Services (NHDES), hereby grants this permit to withdraw groundwater from Well 20 and Well 21 subject to the following conditions:

1. The permittee shall comply with the requirements of Env-Wq 403 and RSA 485-C at all times.
2. Water Conservation: The permittee shall implement the approved Water Conservation Plan, dated April 12, 2010, in accordance with Env-Wq 2101 and NHDES' approval dated May 13, 2010.
3. Metering Requirements: Withdrawals from all sources must be metered at all times. All meters must be selected, installed, tested, and maintained in accordance with the AWWA M6 manual as referenced in Env-Wq 2101. The permittee shall provide NHDES with a certificate of calibration and performance specifications for each meter. The permittee shall document and maintain records of all meter maintenance and calibration activities and submit this information to NHDES in an annual report by January 31 of each year. The permittee shall read source water meters to adequately report the following volumes to the reporting program referenced in condition No. 6 of this permit:
 - a) The 24-hour peak day volume withdrawn from each source during each month and the date the water use occurred; and
 - b) The cumulative total volume withdrawn from each source during each month.
4. Monitoring and Reporting Requirements: The permittee shall establish and maintain the monitoring and reporting program as described below:
 - a) Groundwater Level Monitoring: The permittee shall measure the water level at each site listed below during the last calendar week of each month. All water level measurements shall be made to the nearest 0.01-foot by a person who can demonstrate by education or experience, competency in collecting hydrogeologic measurements.
 - i. On-site Production Wells: Well 20, Well 21, Well 6, Well 8A, Well 9, and Well 11.
 - ii. On-site Bedrock Monitoring Wells: Well SB-1 and Well SB-7.
 - iii. On-site Piezometers: P-1S, P-1D, P-2S, P-2I, P-2D, P-3S, P-3I, P-3D, and P-4S.
 - b) Wetlands Monitoring: The permittee shall maintain the wetlands monitoring program as described on page 40 and Appendix P of the Final Report titled "Final Hydrogeological Report, Aquarion Water Company of New Hampshire, Wells 20 and 21 Mill Road Distribution Facility, North Hampton, NH," prepared by Geosphere Environmental Management, Inc., dated August 2003, as revised by NHDES' letter to NH Soil Consultants, Inc. dated March 7, 2005, incorporated herein by reference, subject to the following conditions:
 - i. Monitoring shall occur using methods consistent with prior years' surveys at wetland monitoring plots Mon Site 1, Mon Site 2, and Mon Cont 1.
 - ii. One survey of the three wetland plots shall be completed annually on or about August 15.

- iii. As part of the first annual wetlands monitoring report submitted to NHDES under this permit, the permittee shall submit a functions and values assessment of plots Mon Site 1 and Mon Site 2.

The wetlands monitoring program shall continue indefinitely as a condition of this permit. All work shall be conducted under the direct oversight of a New Hampshire Certified Wetland Scientist. Results of the wetlands monitoring and surveys must provide a determination as to whether or not an adverse impact has occurred, may occur, or has not occurred over the monitoring period.

- c) All monitoring shall be completed by a person who can demonstrate, by education or experience, competency in collecting and reporting hydrogeologic measurements.

Monitoring locations and frequencies may be added or changed if the data obtained contradict the information provided in the permittee's application, or if additional data points are required to assess the potential for adverse impacts to occur.

An annual monitoring report and all monitoring data shall be submitted to NHDES annually by January 31 of each year. The annual monitoring report shall note any relevant observations that may affect the measurements and include all field notes documenting the monitoring activities for the preceding year.

The annual monitoring report shall be submitted in an electronic format and hard copy format. All groundwater level monitoring data collected under condition No. 4a shall be submitted in an electronic format only.

5. Mitigation Requirements

- a) In the event that an adverse impact occurs, the permittee shall comply with all of the requirements below and with the impact mitigation and source replacement requirements of Env-Wq 403.
 - b) Where the status of an unanticipated impact is not clear, the permittee shall gather information needed to quantify the impact and determine its status relative to the adverse impact criteria defined under RSA 485-C:21, V-c and provide this information to NHDES within 48 hours of being notified by NHDES. A verified adverse impact shall be mitigated in accordance with Env-Wq 403.
6. The permittee shall maintain its registration with the NHDES Water Use Registration and Reporting Program and maintain the water use reporting requirements established by RSA 488, Env-Wq 2102, and this permit.
 7. The permittee shall apply for renewal of this permit between 90 and 365 days prior to its expiration date in accordance with Env-Wq 403. The permittee shall continue to comply with all conditions in this permit until the permit is renewed or the facility is closed in accordance with all applicable requirements, regardless of whether a renewal application is filed.

Any person aggrieved by any terms or conditions of this permit may appeal in accordance with RSA 21-O:7, IV within 30 days.

A handwritten signature in black ink, appearing to read 'H. Stewart', is written over a solid horizontal line.

Harry T. Stewart, P.E.,
Director Water Division

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