



The

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES

hereby issues

LARGE GROUNDWATER WITHDRAWAL PERMIT

NO. LGWP-2003-0001

to the permittee

AQUARION WATER COMPANY OF NEW HAMPSHIRE

for the withdrawal of the following volumes of groundwater from two wells:

Well 20 – 246,240 gallons over any 24-hour period

Well 21 – 273,600 gallons over any 24-hour period

located at the Mill Road Facility in North Hampton, New Hampshire.

TO: BRIAN GOETZ
AQUARION WATER COMPANY OF NEW HAMPSHIRE
ONE MERRILL INDUSTRIAL DRIVE
HAMPTON, NH 03842

Date of Issuance: November 19, 2003
Date of Expiration: November 19, 2013

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

1. Application of Env-Ws 388

- a. The permittee shall continue to comply with the requirements of Env-Ws 388 at all times.

2. Inspections

- a. The permittee shall allow any authorized member of the Department's staff, or its agent, to enter the property covered by this permit for the purpose of collecting information, examining records, collecting water level measurements, or undertaking other action associated with this permit.

3. Water Level Monitoring and Reporting

- a. The permittee shall measure the water level of each well identified in i-iii below during the last week of each month. The water level data shall be submitted to the Department by January 31 of each year, commencing January 31, 2005, and will include data for the preceding year ending on December 31. Data collection will commence on the effective date of this permit. All water level measurements shall be made to the nearest 0.01 foot increment by a person who can demonstrate by education or experience, competency in collecting hydrogeologic measurements. The data will be submitted in an agreed upon electronic spreadsheet format. This requirement shall apply to the following wells:

- i. Production wells designated Well 20, Well 21, Well 6, Well 8A, Well 9, and Well 11. In addition to water level measurements, the permittee shall also provide the operation schedule and withdrawal rate at each well.
- ii. Bedrock wells designated SB-1 and SB-7.
- iii. Piezometers designated P-1S, P-1D, P-2S, P-2I, P-2D, P-3S, P-3I, P-3D, and P-4S.

4. Wetlands Monitoring and Reporting

- a. The permittee shall maintain the wetlands monitoring and reporting program as described on page 40, and Appendix P of the permit application report titled "Final Hydrogeological Report", prepared for Aquarion Water Company of New Hampshire by Geosphere Environmental Management, Inc., dated August 2003. The wetlands monitoring and reporting program shall be maintained as a condition of the permit unless the permit is modified according to Env-Ws 388.25.

Well 20 = 20030001PW20
Well 21 = 20030001PW21
Well 6 = 20030001PW6
Well 8A = 20030001PW8A
Well 9 = 20030001PW9
Well 11 = 20030001PW11
Well SB-1 = 20030001MWSB1
Well SB-7 = 20030001MWSB7

- b. Data collection and analysis shall be performed on or about May 15, August 15, and October 15 of each year beginning in 2004. The permittee shall provide data collection and analysis reports to the Department on June 15, September 15, and November 15 of each year beginning in 2004. All work shall be conducted under the direct oversight of a New Hampshire Certified Wetland Scientist.
- c. The permittee shall submit an annual wetlands monitoring report to the Department by January 31 of each year, commencing January 31, 2005. The annual wetlands report shall include the following information:
 - i. the locations of each wetlands monitoring site.
 - ii. a description of the soil profiles at each wetlands monitoring site.
 - iii. a description of the soil moisture at each wetlands monitoring site.
 - iv. a description of the condition and type of wetlands indicator plants at each wetlands monitoring site.
 - v. an assessment of the differences from year to year in soil moisture and the condition and type of wetlands indicator plants within the wetlands monitoring sites.
 - vi. an assessment as to whether or not an adverse impact to the wetlands has occurred, may soon occur, or has not occurred over the monitoring period.

5. Water Conservation

- a. The permittee shall maintain its water audit and leak detection program in accordance with "Manual of Water Supply Practices, Water Audits and Leak Detection" document identification number AWWA M36, American Water Works Association, 1999, or its successor document. By January 31 of each year, commencing in 2005, the permittee shall file a report with the Department regarding its level of unaccounted-for water for the preceding year ending on December 31. The annual level of unaccounted-for water in the permittee's water system must continue to remain below fifteen percent (15%) unless otherwise approved by the Department.

6. Mitigation Requirements

- a. In the event that adverse impacts occur, the permittee shall comply with the requirements of Env-Ws 388:19.

7. Registered Water User

- a. The permittee shall become a Registered Water User and maintain the water use reporting requirements of Env-Wr 700 at all times.

8. Emergency Plan

- a. The permittee shall amend its Emergency Plan to include Well 20 and Well 21.
- b. The permittee shall review and update its Emergency Plan annually as needed.

9. Permit Renewal

- a. The permittee shall apply for renewal of this permit at least 90 days prior to its expiration date. 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.



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

Any person aggrieved by any terms or conditions of this permit may appeal in accordance with RSA 541 within 30 days.