

**EXHIBIT "G"**

**GROUNDWATER MONITORING WELLS**  
**SAMPLING AND TESTING PROCEDURES**  
**ROWLEY PLANNING BOARD**  
**ROWLEY, MA**

*April 1, 2003*

At least four (4) monitoring wells shall be installed and located as shown on the plans or as otherwise directed by the Planning Board and/or their Consultant.

Initial testing to establish a water quality baseline will be conducted for a period of three (3) months prior to any construction activity. Samples will be taken, as a minimum, at least once every three (3) months from each of the monitoring wells. There shall not be more than 90 days span between sampling.

Upon commencement of construction, sampling and testing will be continued at the frequency and with the same requirements as above. This sampling and testing will be continued until construction is completed and a request is made of and approved by the Planning Board to decrease this frequency of sampling and testing.

Samples shall be taken by a MA-approved testing laboratory and tested for the following parameters:

- Fecal Coliform
- Total Phosphate
- Ammonia-Nitrogen
- Nitrate-Nitrogen
- Sodium
- Calcium
- pH

Applicant shall submit copies of the testing laboratory results to the Planning Board, their Consultant and the Rowley Water Department.

*EXHIBIT "W"*

The Applicant shall monitor the quality of the groundwater in two (2) monitoring wells to be installed down gradient from each subsurface sewage disposal system. The groundwater shall be monitored for nitrates and nitrites on a quarterly basis for the first two years, semiannually for the following two years then annually thereafter. The sampling period shall begin prior to the start of construction to establish a baseline of existing water quality. Additionally, the groundwater shall be sampled for hydrocarbons and volatile organic compounds during the first round of samples, then biannually thereafter. All analyses shall be completed by a State certified laboratory. All reports shall be forwarded to the Town of Rowley Water Department and the Board of Health within 45 days of the sample date. The Applicant shall be responsible for maintaining groundwater quality at the down gradient property line at levels that are below typical groundwater State drinking water maximum contaminant levels for the four (4) above mentioned compounds. Should the groundwater quality be degraded as a result of the Applicant's operations, the Applicant shall cease discharge or provide other relief subject to the approval of the Board of Health and the Board of Water Commissioners.