Appendix A
Water Quality Testing Requirements for Source Approval

All testing must be done in accordance with 310 CMR 22.00 (Massachusetts Drinking Water Regulations). Among these requirements are the use of a laboratory certified in the specific analyte, using approved methodology and reporting on MA Department forms (pursuant to 310 CMR 22.11A) as well as meeting all applicable method detection limits.

1. ***Coliform Bacteria****

2. ***Inorganic Compounds***

Arsenic	Mercury
Antimony	Nickel
Barium	Nitrate (N)
Beryllium	Nitrite
Cadmium	Perchlorate
Chromium	Selenium
Cyanide	Sodium
Fluoride	Sulfate
Lead	Thallium

3. ***Synthetic Organic Compounds (SOCs)***

All regulated and unregulated SOCs per 310 CMR 22.07A(1) and 22.07C(7) excluding:

- Diquat
- Endothall
- Glyphosate
- 2,3,7,8 -TCDD (Dioxin)

Surface water sources do not have to test for EDB and DBCP.

4. ***Volatile Organic Compounds (VOCs)***

All VOCs as per 22.07B(1), 22.07C(5)

5. ***Radionuclides***

Gross alpha activity
Radium-226 & 228
Beta particle activity**
Photon activity***
Tritium***
Strontium-90***
Radon
Uranium****

6. ***Secondary Contaminants***

TDS
Color
Odor
pH
Alkalinity-Total ($CaCo_3$)
Hardness ($CaCO_3$)
Calcium (Ca)
Manganese (Mn)
Potassium (K)
Iron (Fe)
Magnesium (Mg)
Sulfate (SO_4)
Chloride (Cl)
Silver (Ag)
Turbidity
Aluminum (Al)
Zinc (Zn)
Copper (Cu)

7. ***Other***

Carbon dioxide
Nitrogen (Ammonia)
Specific conductance
Temperature

***** If the result of any analysis is positive for total coliform, then the sample must be analyzed for enterococci (and/or coliphage at MassDEP's discretion).

****** If required by MassDEP

******* Testing for these parameter is only required if the gross beta particle activity is equal to or greater than 50 pCi/L.

******** Testing for this parameter is only required if the gross alpha activity is greater than 15 pCi/L.