

MULTI-BARRIER PROTECTION.



The Approach:

The Multi-Barrier approach is an integrated series of Quality control steps in place to protect the consumer and ensure water quality from the source to the tap.

SOURCE PROTECTION:

Ensures that the (Ground) water resource is protected, free of contamination sources and facilities are security monitored.

TREATMENT:

Raw water pumped from deep aquifers is disinfected to ensure it is free of pathogenic bacteria.

DISTRIBUTION MANAGEMENT:

The network of pipes that deliver treated water is constructed to AWWA, ASTM, and NSF standards and monitored for any leakage.

Storage facilities ensure water volumes are available for Fire Protection and consistent pressure.

Fire Hydrants are tested and checked for proper operation on a regular schedule.



CROSS CONNECTION CONTROL:

Provides a program where each customer is evaluated for the potential risk of contaminating the system from which they are served. Back flow devices are installed on most service connection installations. (See *By-Law 024.6*). Back flow can occur in a vacuum siphonage or pressurized difference between the customer premises and the distribution system.

MONITORING AND TESTING:

Municipal water from both the raw source and treated system are tested and monitored regularly. Source and distribution are tested weekly for the presence of pathogenic bacteria, and semi annually for organic and inorganic parameters. Chlorine residuals are monitored continuously to ensure a disinfectant residual is present. Water quality standards are set by Health Canada to meet the *Guidelines for Canadian Drinking Water Quality*.

TRAINING & EMERGENCY RESPONSE:

All operations staff are trained and certified to the levels required by the New Brunswick Provincial Government to ensure the integrity of staff, systems and facilities.

Staff are trained to respond and report emergency situations.

Customer support is available 24 hours a day, 7 days a week.

