



CITY OF SALEM, MASSACHUSETTS

BOARD OF HEALTH

98 WASHINGTON STREET, 3RD FLOOR

TEL. (978) 741-1800

health@salem.com

KIMBERLEY DRISCOLL
MAYOR



Public Health
Prevent. Promote. Protect.

DAVID GREENBAUM
HEALTH AGENT

WATER QUALITY TESTING REQUIREMENTS

AFTER THE WELL HAS BEEN COMPLETED AND DISINFECTED, AND PRIOR TO USING IT AS A DRINKING WATER SUPPLY, A WATER QUALITY TEST SHALL BE CONDUCTED.

A WATER SAMPLE SHALL BE COLLECTED EITHER AFTER PURGING THREE WELL VOLUMES OR FOLLOWING THE STABILIZATION OF THE PH, TEMPERATURE AND SPECIFIC CONDUCTANCE IN THE PUMPED WELL. THE WATER SAMPLE TO BE TESTED SHALL BE COLLECTED AT THE PUMP DISCHARGE OR FROM A DISINFECTED TAP IN THE PUMP DISCHARGE LINE. IN NO EVENT SHALL A WATER TREATMENT DEVICE BE INSTALLED PRIOR TO SAMPLING.

THE WATER QUALITY TEST, UTILIZING EPA METHODS FOR DRINKING WATER TESTING (500 SERIES METHODS) AND NOT METHODS USED FOR ANALYZING WASTEWATER, SHALL BE CONDUCTED BY A CERTIFIED LABORATORY AND SHALL INCLUDE ANALYSIS FOR THE FOLLOWING PARAMETERS:

Parameter

*Coliform Bacteria

Maximum Contaminant Level (MCL)

Positive sample

| <u>Parameter</u> | <u>Recommended Upper Limit</u> | <u>Lower Limit</u> |
|------------------------|--------------------------------|--------------------|
| Alkalinity | 100 mg/l | 30 mg/l |
| Calcium | 150 mg/l | 50 mg/l |
| Chloride | 250 mg/l | n/a |
| Color | 15 color units | n/a |
| Copper | 1 mg/l | n/a |
| Hardness | 200 mg/l | 50 mg/l |
| Iron | .3 mg/l | n/a |
| Magnesium | relative scale | |
| Manganese | .05 mg/l | n/a |
| Odor | 3 TON | n/a |
| pH | 8.5 | 6.5 |
| Potassium | relative scale | |
| Sediment | visual Observation | |
| Sulfate | 250 mg/l | n/a |
| Total Dissolved Solids | 500 mg/l | n/a |



CITY OF SALEM, MASSACHUSETTS

BOARD OF HEALTH

98 WASHINGTON STREET, 3RD FLOOR

TEL. (978) 741-1800

health@salem.com

KIMBERLEY DRISCOLL
MAYOR



Public Health
Prevent. Promote. Protect.

DAVID GREENBAUM
HEALTH AGENT

Volatile Organic Compounds

| <u>Parameter</u> | <u>Maximum Contaminant Level (MCL)</u> |
|--------------------------|---|
| Benzene | .005 mg/l |
| Carbon tetrachloride | .005 mg/l |
| Dichloromethane | .005 mg/l |
| o-Dichlorobenzene | .6 mg/l |
| p-Dichlorobenzene | .005 mg/l |
| 1,2-Dichloroethane | .005 mg/l |
| cis-1,2-Dichloroethene | .07 mg/l |
| trans-1,2-Dichloroethene | .1 mg/l |
| 1,1-Dichloroethene | .007 mg/l |
| 1,2-Dichloropropane | .005 mg/l |
| Ethylbenzene | .7 mg/l |
| Chlorobenzene | .1 mg/l |
| Styrene | .1 mg/l |
| Tetrachloroethene | .005 mg/l |
| Toluene | 1 mg/l |
| Trichloroethene | .005 mg/l |
| 1,1,1-Trichloroethane | .2 mg/l |
| 1,2,4-Trichlorobenzene | .07 mg/l |
| 1,1,2-Trichloroethane | .005 mg/l |
| Vinyl Chloride | .002 mg/l |
| Xylenes (total) | 10 mg/l |

Inorganic compounds

| <u>Parameter</u> | <u>Maximum Contaminant Level (MCL)</u> |
|-----------------------------|---|
| Antimony | .006 mg/l |
| Arsenic | .05 mg/l |
| Asbestos | 7 million fibers/l |
| Barium | 2 mg/l |
| Beryllium | .004 mg/l |
| Cadmium | .005 mg/l |
| Chromium (total) | .1 mg/l |
| Cyanide | .2 mg/l |
| Fluoride | 4 mg/l |
| Lead (action level) | .015 mg/l |
| Copper (action level) | 1.3 mg/l |
| Mercury | .002 mg/l |
| *Nitrate (N) | 10 mg/l |
| *Nitrite (N) | 1 mg/l |
| Total Nitrate & Nitrite (N) | 10 mg/l |
| Selenium | .05 mg/l |
| Thallium | .002 mg/l |

*indicates parameters that should be monitored once every year.

The most recent certified lab list can be obtained by calling the Wall Experiment Station at (978) 682-5237 or by accessing the information at <http://www.state.ma.us/dep/bspt/wes/wespubs.htm>