



Lab Results as of 5/20/2022 for
Fresh Water Daily
Middleton, Massachusetts
MASSDEP PWSID # 3184017

PUBLIC WATER SYSTEM INFORMATION:

Address: 251 S Main Street, Middleton, MA
Contact Person: Matt Williams
Telephone: 626-260-0367
Email: freshwaterdaily1@gmail.com
Website: www.freshwater-daily.com

WATER SOURCE:

The Town of Danvers manages and facilitates the water being delivered to our building. It originates mainly from Middleton Pond with some surrounding surface water sources supplementing when deemed necessary. From there, the water goes through our top of the line 11-Stage Reverse Osmosis Purification System to produce truly clean and great tasting water.

WATER TREATMENT:

We have an 11-stage purification process:

1. **AG Pre-Filter:** Removes particles down to 20 microns in size.
2. **Activated Carbon:** Removes chlorine, chloramine, solvents, lead, insecticides, gasses, and other harmful contaminants. Works as a water softener, without the use of salt and drawing hardness particles together and crystallizing them.
3. **5 Micron Pre-Filter:** Removes particles, sediments, and algae.
4. **Reverse Osmosis Membrane:** Water is forced through a semi permeable, **.0002-micron membrane**, allowing only pure water molecules to pass, and removing the remaining contaminants.

5. **Storage and Ozone:** Water is stored in FDA approved tanks with Ozone circulation to prevent bacteria growth.
6. **Post Carbon Filtration:** Water travels through a 4.5in x 20in coconut shell carbon block filter, which acts as an extra measure to remove any possible contaminants, but mainly to polishing it for an exceptionally smooth taste.
7. **Ultraviolet Sterilizer:** Stainless steel sterilizer eliminates up to 99.9% of all bacteria before delivery to filling station.
8. ***Alkaline Only* Alkaline Filter:** Remineralizers water with a high quality blend of essential minerals sourced domestically in the US adding Magnesium and Calcium that raise PH of water.
9. ***Alkaline Only* 5 Micron Filter:** Removes any minerals larger than 5 microns.
10. ***Alkaline Only* Ultraviolet Sterilizer:** Alkaline water goes through an additional UV lamp for extra protection from bacteria.
11. **Ozone Bottle Rinse:** Sanitizes and rinses bottles at filling station before filling to ensure our clean water goes home with you just as clean as we make it here.

****The water quality of our system is constantly monitored by us and MassDEP to determine the effectiveness of existing water treatment and to determine if any additional treatment is required.***

IMPORTANT DEFINITIONS:

Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulation is warranted.

<i>ppm</i>	<i>= parts per million, or milligrams per liter (mg/l)</i>
<i>ppb</i>	<i>= parts per billion, or micrograms per liter (ug/l)</i>
<i>ppt</i>	<i>= parts per trillion, or nanograms per liter</i>
<i>pCi/l</i>	<i>= picocuries per liter (a measure of radioactivity)</i>
<i>NTU</i>	<i>= Nephelometric Turbidity Units</i>
<i>ND</i>	<i>= Not Detected</i>
<i>N/A</i>	<i>= Not Applicable</i>
<i>mrem/year</i>	<i>= millirems per year (a measure of radiation absorbed by the body)</i>

WATER QUALITY TESTING RESULTS

	Date(s) Collected	Results	Possible Source of Contamination
Lead (ppb)	4/14/22	ND	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	4/14/22	ND	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

Regulated Contaminant	Date(s) Collected	Highest Result or Highest Running Average Detected	Violation (Y/N)	Possible Source(s) of Contamination
Fluoride (ppm)	4/19/2022	ND	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories

Benzene (ppb)	4/19/2022	ND	N	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	4/19/2022	ND	N	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	4/19/2022	ND	N	Discharge from and agricultural chemical factories
o-Dichlorobenzene (ppb)	4/19/2022	ND	N	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	4/19/2022	ND	N	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	4/19/2022	ND	N	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	4/19/2022	ND	N	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	4/19/2022	ND	N	Breakdown product of trichloroethylene and tetrachloroethylene

trans-1,2-Dichloroethylene (ppb)	4/19/20 22	ND	N	Discharge from industrial chemical factories
Dichloromethane (ppb)	4/19/20 22	ND	N	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	4/19/20 22	ND	N	Discharge from industrial chemical factories
Ethylbenzene (ppb)	4/19/20 22	ND	N	Leaks and spills from gasoline and petroleum storage tanks
Styrene (ppb)	4/19/20 22	ND	N	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (PCE) (ppb)	4/19/20 22	ND	N	Discharge from factories and dry cleaners; residual of vinyl-lined water mains
1,2,4-Trichlorobenzene (ppb)	4/19/20 22	ND	N	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	4/19/20 22	ND	N	Discharge from use in septic system cleaners
1,1,2-Trichloroethane (ppb)	4/19/20 22	ND	N	Discharge from industrial chemical factories
Trichloroethylene (TCE) (ppb)	4/19/20 22	ND	N	Discharge from metal degreasing sites and other factories
Toluene (ppm)	4/19/20 22	ND	N	Leaks and spills from gasoline and petroleum storage tanks; discharge from petroleum factories
Vinyl Chloride (ppb)	4/19/20 22	ND	N	Leaching from PVC piping; discharge from plastics factories
Xylenes (ppm)	4/19/20 22	ND	N	Leaks and spills from gasoline and petroleum storage tanks; discharge from petroleum factories; discharge from chemical factories

Unregulated contaminants are those for which there are no established drinking water standards. The purpose of unregulated contaminant monitoring is to assist regulatory agencies in determining their occurrence in drinking water and whether future regulation is warranted.

Unregulated Contaminants	Date(s) Collected	Result or Range Detected	Possible Source
Bromobenzene	4/19/2022	ND	Discharge from use in chemical manufacturing
Bromomethane (ppb)	4/19/2022	ND	Run-off from use as a fumigant
Bromodichloromethane	4/19/2022	ND	Trihalomethane; by-product of drinking water chlorination
Bromochloromethane (Halon 1001) (ppb)	4/19/2022	ND	Used as a fire-extinguishing fluid, an explosive suppressant, and as a solvent in the manufacturing of pesticides
Bromoform	4/19/2022	ND	Trihalomethane; by-product of drinking water chlorination
Chlorodifluoromethane (HCFC-22)	4/19/2022	ND	Occurs as a gas, and used as a refrigerant, a low-temperature solvent, and in fluorocarbon resins
Chloroethane	4/19/2022	ND	Discharge from industrial uses
Chloroform (ppb)	4/19/2022	ND	By-product of drinking water chlorination (In non-chlorinated sources it may be naturally occurring)
Chloromethane (methyl chloride) (ppt)	4/19/2022	ND	Discharge from industrial uses
o-Chlorotoluene	4/19/2022	ND	Discharge from industrial use
Cylindrospermopsin	4/19/2022		Certain algal blooms
Dibromodichloromethane	4/19/2022	ND	Trihalomethane; By-product of drinking water chlorination
m-Dichlorobenzene	4/19/2022	ND	Discharge from use in chemical manufacturing
Dichlorodifluoromethane (Freon 12) (ppm)	4/19/2022	ND	Discharge from use as a refrigerant
1,1-Dichloroethane ¹ (ppb)	4/19/2022	ND	Discharge from use as a degreasing agent
2,2-Dichloropropane	4/19/2022	ND	Discharge from use in chemical manufacturing
1,3-Dichloropropane	4/19/2022	ND	Discharge from use in chemical manufacturing
1,1-Dichloropropene	4/19/2022	ND	Discharge from use in chemical manufacturing
1,3-Dichloropropene (cis,trans) (ppt)	4/19/2022	ND	Run-off from use as a nematocide
Hexachlorobutadiene	4/19/2022	ND	Discharge from use as an industrial solvent
Isopropylbenzene	4/19/2022	ND	Discharge from chemical manufacturing
Isopropyltoluene	4/19/2022	ND	Discharge from chemical manufacturing

Unregulated Contaminants	Date(s) Collected	Result or Range Detected	Possible Source
Methyl tertiary butyl ether* or MTBE (ppb)	4/19/2022	ND	Fuel additive; leaks and spills from gasoline storage tanks
Naphthalene (ppb)	4/19/2022	ND	Discharge from use in mothballs and other domestic products
n-propylbenzene	4/19/2022	ND	Discharge from chemical manufacturing
Tertiary-amyl methyl ether (TAME) (ppb)	4/19/2022	ND	Discharge from use as an octane enhancer and oxygenate in gasoline
Tertiary butyl alcohol (TBA) (ppb)	4/19/2022	ND	Degraded from MTBE; discharged from use as an octane enhancer and oxygenate in gasoline
1,1,1,2-Tetrachloroethane	4/19/2022	ND	Discharge from use in chemical manufacturing
1,1,2,2-Tetrachloroethane	4/19/2022	ND	Discharge from use in dry cleaning
1,2,3-Trichlorobenzene	4/19/2022	ND	Discharge from use in chemical manufacturing
1,2,3-Trichloropropane (ppq)	4/19/2022	ND	Discharge from use in paint and varnish removers
1,2,4-Trimethylbenzene	4/19/2022	ND	Discharge from use in dyes and paints
1,3,5-Trimethylbenzene	4/19/2022	ND	Discharge from use in chemical manufacturing