

**VOLATILE ORGANIC CONTAMINANTS (b) (Units µg/L)**

Analyte	WTP	Date	MCL	Analyte	WTP	Date	MCL
1,1,1,2-Tetrachloroethane	< 0.5	7/9/24	NR	Chloromethane	< 0.5	7/9/24	44750
1,1,1-Trichloroethane	< 0.5	7/9/24	200	cis-1, 2-Dichloroethylene	< 0.5	7/9/24	70
1,1,2,2-Tetrachloroethane	< 0.5	7/9/24	NR	cis-1, 3-Dichloropropylene	< 0.5	7/9/24	NR
1,1,2-Trichloroethane	< 0.5	7/9/24	5	Dibromochloromethane	1.3	7/9/24	NR
1,1-Dichloroethane	< 0.5	7/9/24	NR	Dibromomethane	< 0.5	7/9/24	NR
1,1-Dichloroethylene	< 0.5	7/9/24	7	Dichlorodifluoromethane	< 0.5	7/9/24	NR
1,1-Dichloropropylene	< 0.5	7/9/24	NR	Diethyl ether	< 0.5	7/9/24	NR
1,2,3-Trichlorobenzene	< 0.5	7/9/24	NR	Diisopropyl Ether (DIPE)	< 0.5	7/9/24	NR
1,2,3-Trichloropropane	< 0.5	7/9/24	NR	Ethyl Tert-Butyl Ether (ETBE)	< 0.5	7/9/24	NR
1,2,4-Trichlorobenzene	< 0.5	7/9/24	70	Ethylbenzene	< 0.5	7/9/24	700
1,2,4-Trimethylbenzene	< 0.5	7/9/24	NR	Hexachlorobutadiene	< 0.5	7/9/24	NR
1,2-Dibromo - 3- chloropropane	< 0.5	7/9/24	0.2	Hexachloroethane	< 0.5	7/9/24	NR
1,2-Dibromoethane	< 0.5	7/9/24	0.05	Isopropylbenzene	< 0.5	7/9/24	NR
1,2-Dichlorobenzene	< 0.5	7/9/24	600	m/p - Xylenes	< 1	7/9/24	NR
1,2-Dichloroethane	< 0.5	7/9/24	5	Methylene chloride	< 0.5	7/9/24	5
1,2-Dichloropropane	< 0.5	7/9/24	5	Methyl-t-butyl-ether (MIBE)	< 0.5	7/9/24	13
1,3,5-Trimethylbenzene	< 0.5	7/9/24	NR	Napthalene	< 0.5	7/9/24	NR
1,3-Dichlorobenzene	< 0.5	7/9/24	NR	n-Butylbenzene	< 0.5	7/9/24	NR
1,3-Dichloropropane	< 0.5	7/9/24	NR	n-Propylbenzene	< 0.5	7/9/24	NR
1,4-Dichlorobenzene	< 0.5	7/9/24	75	o-Xylene	< 0.5	7/9/24	NR
2-Chlorotoluene	< 0.5	7/9/24	NR	sec Butylbenzene	< 0.5	7/9/24	NR
4-Chlorotoluene	< 0.5	7/9/24	NR	Styrene	< 0.5	7/9/24	100
4-Isopropyltoluene	< 0.5	7/9/24	NR	Tert-Amyl Methyl Ether (TAME)	< 0.5	7/9/24	NR
Benzene	< 0.5	7/9/24	5	Tert-Butyl Alcohol (TBA)	< 10	7/9/24	NR
Bromobenzene	< 0.5	7/9/24	NR	Tert-Butylbenzene	< 0.5	7/9/24	NR
Bromochloromethane	< 0.5	7/9/24	NR	Tetrachloroethylene	< 0.5	7/9/24	5
Bromodichloromethane	3.2	7/9/24	NR	Tetrahydrofuran	< 10	7/9/24	NR
Bromoform	< 0.5	7/9/24	NR	Toluene	< 0.5	7/9/24	1000
Bromomethane	< 0.5	7/9/24	NR	Total Trihalomethanes	8.3	7/9/24	80
Carbon Disulfide	< 0.5	7/9/24	NR	Total Xylenes	< 0.5	7/9/24	10,000
Carbon Tetrachloride	< 0.5	7/9/24	5	Trans-1, 2-Dichloroethylene	< 0.5	7/9/24	100
Chlorobenzene	< 0.5	7/9/24	100	Trans-1, 3-Dichloropropylene	< 0.5	7/9/24	NR
Chloroform	3.8	7/9/24	NR	Trichloroethylene	< 0.5	7/9/24	5
Chloroethane	NT		NR	Trichlorofluoromethane	< 0.5	7/9/24	NR
cis-1, 2-Dichloroethylene	< 0.5	7/9/24	70	Vinyl chloride	< 0.5	7/9/24	NR
cis-1, 3-Dichloropropylene	< 0.5	7/9/24	NR				

**SYNTHETIC ORGANIC CONTAMINANTS (b) (Units µg/L)**

Analyte	WTP	Date	MCL	Analyte	WTP	Date	MCL
2,4,5-TP (Silvex)	< 0.25	7/1/24	50	Heptachlor	< 0.1	7/1/24	0.4
2,4-D	< 1	7/1/24	70	Heptachlor Epoxide	< 0.1	7/1/24	0.2
3-Hydroxycarbofuran	< 1	7/1/24	NR	Hexachlorobenzene	< 0.1	7/1/24	1
Alachlor	< 0.1	7/1/24	2	Hexachlorocyclopentadiene	< 0.1	7/1/24	50
Aldicarb	< 1	7/1/24	3	Lindane	< 0.1	7/1/24	0.2
Aldicarb Sulfone	< 1	7/1/24	2	Methiocarb	< 1	7/1/24	NR
Aldicarb Sulfoxide	< 1	7/1/24	4	Metolachlor	< 0.1	7/1/24	NR
Aldrin	< 0.1	7/1/24	NR	Methomyl	< 1	7/1/24	NR
Atrazine	< 0.1	7/1/24	3	Methoxychlor	< 0.1	7/1/24	40
Benzo(a)pyrene	< 0.1	7/1/24	0.2	Metribuzin	< 0.1	7/1/24	NR
Butachlor	< 0.1	7/1/24	NR	Oxamyl (Vydate)	< 1	7/1/24	200
Carbaryl	< 1	7/1/24	NR	PCB Aroclor 1016	NT		NR
Carbofuran	< 1	7/1/24	40	PCB Aroclor 1221	NT		NR
Chlordane	< 0.4	7/1/24	2	PCB Aroclor 1232	NT		NR
Dalapon	< 1	7/1/24	200	PCB Aroclor 1242	NT		NR
Di(2-ethylhexyl)adipate	< 1	7/1/24	400	PCB Aroclor 1248	NT		NR
Di (2-Ethylhexyl) phthalate	< 1	7/1/24	6	PCB Aroclor 1254	NT		NR
Dicamba	< 0.5	7/1/24	NR	PCB Aroclor 1260	NT		NR
Dieldrin	< 0.1	7/1/24	NR	Pentachlorophenol	< 0.1	7/1/24	1
Dinoseb	< 1	7/1/24	7	Picloram	< 2	7/1/24	500
Diquat	< 1	7/1/24	NR	Propachlor	< 0.1	7/1/24	NR
Endrin	< 0.1	7/1/24	2	Propoxur (Baygon)	< 1	7/1/24	NR
Ethylene dibromide (EDB)	< 0.02	7/1/24	0.05	Simazine	< 0.1	7/1/24	4
Glyphosate	< 10	7/1/24	700	Toxaphene	< 2	7/1/24	3

**RADIOLOGICAL CONTAMINANTS (b)**

Analyte (Units)	WTP	Date	MCL
Compliance Gross Alpha (pCi/L)	<3	7/1/2024	15
Combined Radium (pCi/L)	<1	7/1/2024	5
Uranium (µg/L)	<1	7/1/2024	30

**FIRST DRAW LEAD AND COPPER (a)**

Analyte	Results	AL	Date
Lead (µg/L) 90th percentile sample	0	15	2023
Copper (mg/L) 90th percentile sample	0.188	1.3	2023

**INORGANIC CONTAMINANTS (b)**

Analyte	WTP	Date	MCL
Antimony (mg/L)	<0.001	7/1/24	0.006
Arsenic (mg/L)	<0.001	7/1/24	0.01
Barium (mg/L)	0.0064	7/1/24	2
Beryllium (mg/L)	<0.001	7/1/24	0.004
Cadmium (mg/L)	<0.001	7/1/24	0.005
Chromium (mg/L)	<0.001	7/1/24	0.1
Fluoride (mg/L)	<0.2	7/1/24	4

**SECONDARY CONTAMINANTS (b) - AESTHETIC**

Analyte	WTP	Date	SMCL
Chloride (mg/L)	92	1/2/25	250
Fluoride (mg/L)	< 0.2	7/1/24	2
Iron (mg/L)	0.18	1/2/25	0.3
Manganese (mg/L)	0.0497	1/2/25	0.05
pH (Standard Units)	6.95	7/1/24	6.5 – 8.5
Sodium (mg/L)	51.7	1/2/25	100-250

Mercury (mg/L)	<0.0001	7/1/24	0.002
Nitrate-N (mg/L)	0.47	7/1/24	10
Nitrite-N (mg/L)	< 0.2	4/3/23	1
Selenium (mg/L)	<0.001	7/1/24	0.05
Thallium (mg/L)	<0.001	7/1/24	0.002
Cyanide (mg/L)	<0.005	7/1/24	0.2

Sulfate (mg/L)	5	7/1/24	250
Zinc (mg/L)	0.343	1/2/25	5

#### UNREGULATED CONTAMINANTS (b)

Analyte (Units)	WTP	Date
Alkalinity, Total (mg/L as CaCO <sub>3</sub> )	15	7/1/24
Calcium (mg/L)	10.9	1/2/25
Copper (mg/L)	0.0447	1/2/25
Cyanide (mg/L)	<0.005	7/1/24
Hardness, Total as CaCO <sub>3</sub> (mg/L)	35	1/2/25
Magnesium (mg/L)	1.89	1/2/25
Nickel (mg/L)	0.0037	9/4/24
Organic Carbon, Dissolved (mg/L)	6.89-8.77	7/16/21
Organic Carbon, Total (mg/L)	<0.5-4.99	2024
Phosphate, Total as P (mg/L)	0.4	2017
Radon Gas (pCi/L)	BDL	4/5/06

#### Microbiological Contaminants (a)

Results	MCL
Total Coliform*	Absent ≤ 5% / month
E. coli*	Absent
Chlorine Residual Range (mg/L)	0.2 - 1.0

\*23 Samples are taken weekly from the distribution system.

#### DISINFECTION BY-PRODUCTS (a)

Analyte	Results	MCL	Date
Total Trihalomethanes (ug/L)	39	80	8/9/2024
Haloacetic Acids (ug/L)	13	60	8/9/2024

#### Perfluorinated Chemicals (PFCs)

Analyte (Units)	Results	MCL	Date
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ng/L)	<2.00	NR	8/31/23
Perfluorobutanesulfonic acid (PFBS) (ng/L)	<2.00	NR	8/31/23
Perfluorohexanesulfonic acid (PFHxS) (ng/L)	<2.00	18	10/8/24
Perfluorononanoic acid (PFNA) (ng/L)	<2.00	11	10/8/24
Perfluorooctanesulfonic acid (PFOS) (ng/L)	<2.00	15	10/8/24
Perfluorooctanoic acid (PFOA) (ng/L)	3.9	12	10/8/24

\*\*FOR PFAS RESULTS UPDATED QUARTERLY, PLEASE SEE "PFAS NOTIFICATIONS" UNDER "WHAT'S NEW" ON WWW.PENNICHUCK.COM

#### SOURCE WATER AND TREATMENT INFORMATION

**Water Source:** The two sources of water for the Nashua Core system, the Merrimack River, and the Pennichuck Brook. The third source is the original 1852 Pennichuck Water Works at Supply Pond.

**Water Treatment:** Treatment for a surface water treatment plant is to remove organic matter and other constituents found in surface water. Rapid mixing, coagulation, flocculation, sedimentation, and Granular Activated Carbon Filtration are the technologies and methods in accordance with federal and state standards. Water is disinfected using chlorine for primary disinfection and distribution system disinfection.

#### KEY TO ABBREVIATIONS

**AL** Action Level - The concentration of a contaminant which, if exceeded triggers treatment of or other requirements which a water system must follow.

**MCL** Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water.

**SMCL** Secondary Maximum Contaminant Level - The highest level of a contaminant that affects the aesthetic characteristics ( taste, odor, or color) of drinking water.

**NR** Not Regulated - Contaminants test for but not regulated by the State or EPA.

**(a)** samples taken from the distribution system.

**(b)** samples taken from the distribution entry point.

**mg/L** milligrams per Liter or parts per million.

**µg/L** micrograms per Liter or parts per billion.

**ng/L** nanograms per Liter or parts per trillion.

**pCi/L** picocuries per Liter (measure of radioactivity)

**N/A** Not Applicable **nd** not detected **BDL** Below Detection Level **≤** Less Than or Equal **<** Less Than **ND** Non Detect

**WTP**=Water Treatment Plant - Nashua

#### CONTACT INFORMATION

If you have any questions about this report, or about your water quality, please call Matthew Day, Water Supply Manager, at 1-603-913-2377 or 1-800-553-5191.

Visit the state website for the Pennichuck Water Works system at <https://www4.des.state.nh.us/DEOneStop/PWSDetail.aspx?ID=1621010>

Additional information about contaminants and their potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline 1-800-426-4791.