

WATER QUALITY REPORT
PENNICHUCK WATER WORKS, NASHUA, NH
EPA # 1621010

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

Analyte	WTP	BT	MCL
1,1,1,2-Tetrachloroethane	< 0.5	< 0.5	NR
1,1,1-Trichloroethane	< 0.5	< 0.5	200
1,1,2,2-Tetrachloroethane	< 0.5	< 0.5	NR
1,1,2-Trichloroethane	< 0.5	< 0.5	5
1,1-Dichloroethane	< 0.5	< 0.5	NR
1,1-Dichloroethane	< 0.5	< 0.5	7
1,1-Dichloropropylene	< 0.5	< 0.5	NR
1,2,3-Trichlorobenzene	< 0.5	< 0.5	NR
1,2,3-Trichloropropane	< 0.5	< 0.5	NR
1,2,4-Trichlorobenzene	< 0.5	< 0.5	70
1,2,4-Trimethylbenzene	< 0.5	< 0.5	NR
1,2-Dibromo - 3- chloropropane	< 0.5	< 0.5	0.2
1,2-Dibromoethane	< 0.5	< 0.5	NR
1,2-Dichlorobenzene	< 0.5	< 0.5	600
1,2-Dichloroethane	< 0.5	< 0.5	5
1,2-Dichloropropane	< 0.5	< 0.5	5
1,3,5-Trimethylbenzene	< 0.5	< 0.5	NR
1,3-Dichlorobenzene	< 0.5	< 0.5	NR
1,3-Dichloropropane	< 0.5	< 0.5	NR
1,4-Dichlorobenzene	< 0.5	< 0.5	75
2,2-Dichloropropane	< 0.5	< 0.5	NR
2-Chlorotoluene	<0.5	<0.5	0.5
2-Hexanone	<10	<10	NR
4 Methyl-2-Pentanone (MIBK)	<10	<10	NR
4-Chlorotoluene	<0.5	<0.5	0.5
4-Isopropyltoluene	< 0.5	< 0.5	NR
Acetone	<10	<10	NR
Benzene	< 0.5	< 0.5	5
Bromobenzene	< 0.5	< 0.5	NR
Bromochloromethane	< 0.5	< 0.5	NR
Bromodichloromethane	2.9	< 0.5	80
Bromoform	< 0.5	< 0.5	80
Bromomethane	< 0.5	< 0.5	NR
Carbon Disulfide	< 0.5	< 0.5	NR
Chlorobenzene	< 0.5	< 0.5	100
Chloroethane	< 0.5	< 0.5	NR
Chloroform	3.2	1	80
Chloromethane	< 0.5	< 0.5	NR

Analyte	WTP	BT	MCL
cis-1, 2-Dichloroethylene	< 0.5	< 0.5	70
cis-1, 3-Dichloropropylene	< 0.5	< 0.5	NR
Dibromochloromethane	1.3	< 0.5	80
Dibromomethane	< 0.5	< 0.5	NR
Dichlorodifluoromethane	< 0.5	< 0.5	NR
Diethyl ether	< 0.5	< 0.5	NR
Diisopropyl Ether (DIPE)	< 0.5	< 0.5	NR
Ethyl Tert-Butyl Ether (ETBE)	< 0.5	< 0.5	NR
Ethylbenzene	< 0.5	< 0.5	700
Hexachlorobutadiene	< 0.5	< 0.5	NR
Isopropylbenzene	< 0.5	< 0.5	NR
m/p - Xylenes	< 0.5	< 0.5	NR
Methyl ethyl ketone (MEK) 2-Butanone	<10	<10	NR
Methylene chloride	< 0.5	< 0.5	5
Methyl-t-butyl-ether (MtBE)	< 0.5	< 0.5	13
Napthalene	< 0.5	< 0.5	NR
n-Butylbenzene	< 0.5	< 0.5	NR
Nitrobenzene	<10	<10	NR
n-Propylbenzene	< 0.5	< 0.5	NR
o-Xylene	< 0.5	< 0.5	NR
sec Butylbenzene	< 0.5	< 0.5	NR
Styrene	< 0.5	< 0.5	100
Tert-Amyl Methyl Ether (TAME)	< 0.5	< 0.5	NR
Tert-Butyl Alcohol (TBA)	<10	<10	NR
Tert-Butylbenzene	< 0.5	< 0.5	NR
Tetrachloroethylene	< 0.5	< 0.5	5
Tetrachloromethane	< 0.5	< 0.5	NR
Tetrahydrofuran	<10	<10	NR
Toluene	< 0.5	< 0.5	1000
Total Xylenes	< 0.5	< 0.5	10,000
Trans-1, 2-Dichloroethylene	< 0.5	< 0.5	100
Trans-1, 3-Dichloropropylene	< 0.5	< 0.5	NR
Trichloroethylene	< 0.5	< 0.5	5
Trichlorofluoromethane	< 0.5	< 0.5	NR
Vinyl chloride	< 0.5	< 0.5	2
Disinfection By-Products (a)		Results	MCL
Total Trihalomethanes (Running Annual Average)		20	80
Haloacetic Acids (Annual Running Average)		8	60

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

	WTP	BT	MCL
1, 2-Dibromo-3-chloropropane (DBCP)	< 0.02	< 0.02	0.2
2,4,5-TP (Silvex)	< 0.25	< 0.25	50
2,4-D	< 1	< 1	70
3-Hydroxycarbofuran	< 1	< 1	NR
Alachlor	< 0.1	< 0.1	2
Aldicarb	< 1	< 1	NR
Aldicarb Sulfone	< 1	< 1	NR
Aldicarb Sulfoxide	< 1	< 1	NR
Aldrin	< 0.1	< 0.1	NR
Atrazine	< 0.1	< 0.1	3
Benzo(a)pyrene	< 0.1	< 0.1	0.2
Butachlor	< 0.1	< 0.1	NR
Carbaryl	< 1	< 1	NR
Carbofuran	< 1	< 1	40
Chlordane	< 0.4	< 0.4	2
Di (2-ethylhexyl) adipate	< 1	< 1	400
Di (2-Ethylhexyl) phthalate	< 1	< 1	6
Dicamba	< 0.5	< 0.5	NR
Dieldrin	< 0.1	< 0.1	NR
Dinoseb	< 1	< 1	7

	WTP	BT	MCL
Endrin	< 0.1	< 0.1	2
Ethylene dibromide (EDB)	< 0.02	< 0.02	0.05
Glyphosate	< 10	< 10	700
Heptachlor	< 0.1	< 0.1	0.4
Heptachlor Epoxide	< 0.1	< 0.1	0.2
Hexachlorobenzene	< 0.1	< 0.1	1
Hexachlorocyclopentadiene	< 0.1	< 0.1	50
Lindane	< 0.1	< 0.1	0.2
Methiocarb	< 1	< 1	7
Metolachlor	< 0.1	< 0.1	40
Methomyl	< 1	< 1	NR
Methoxychlor	< 0.1	< 0.1	40
Metribuzin	< 0.1	< 0.1	NR
Oxamyl (Vydate)	< 1	< 1	200
Pentachlorophenol	< 0.1	< 0.1	1
Picloram	< 0.5	< 0.5	500
Propachlor	< 0.1	< 0.1	NR
Propoxur (Baygon)	< 1	< 1	NR
Simazine	< 0.1	< 0.1	4
Toxaphene	< 2	< 2	3

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INORGANIC CONTAMINANTS (b)

Analyte	WTP	BT	MCL
Antimony (µg/L)	< 2	< 2	6
Arsenic (µg/L)	< 2	< 2	10
Barium (mg/L)	0.016	< 0.01	2
Beryllium (µg/L)	< 2	< 2	4
Cadmium (µg/L)	< 2	< 2	5
Chromium (µg/L)	< 10	< 10	100
Cyanide (µg/L)	< 0.02	< 10	200
Fluoride (mg/L)	<0.20	< 0.2	4
Mercury (µg/L)	<0.1	< 0.2	2
Nickel (µg/L)	< 10	< 10	100
Nitrate-N (mg/L)	< 0.2	0.77	10
Nitrite-N (mg/L)	< 0.05	< 0.05	1
Selenium (µg/L)	< 5	< 5	50
Thallium (µg/L)	< 1	< 1	2

FIRST DRAW LEAD AND COPPER (a)

Analyte	Results	AL	Date
Lead (µg/L) 90th percentile sample	5	15	2008
Copper (mg/L) 90th percentile sample	0.064	1.3	2008

Microbiological Contaminants (a)

Results	MCL
Total Coliform	<5%/month
E. coli	Absent

SECONDARY CONTAMINANTS (b) - AESTHETIC

Analyte	WTP	BT	SMCL
Chloride (mg/L)	49	20	250
Fluoride (mg/L)	< 0.20	< 0.20	2
Iron (mg/L)	<0.01	0.01	0.3
Manganese (mg/L)	0.022	0.022	0.05
pH (Standard Units)	7.63	8.52	6.5 – 8.5
Silver (µg/L)	< 4	< 4	100
Sodium (mg/L)	28.1	31.3	100-250
Sulfate (mg/L)	5.2	8	250
Zinc (mg/L)	0.342	1.1	5

RADIOLOGICAL CONTAMINANTS (b)

Analyte (Units)	WTP	BT	MCL
Compliance Gross Alpha (pCi/L)	<2.5+/-1.5	0.7+/-0.7	15
Radon Gas (pCi/L)	BDL	654	None
Radium-226 (pCi/L)	0.6+/-0.2	0.1+/-0.08	5
Radium-228 (pCi/L)	<0.5+/-0.3	0.0+/-0.7	5
Uranium (µg/L)	<0.8+/-0.4	0.4+/-0.1	30

UNREGULATED CONTAMINANTS (b)

Analyte (Units)	WTP	BT
Alkalinity as CaCO ₃ (mg/L)	25.5	47
Calcium (mg/L)	5.6	5.4
Copper (mg/L)	< 0.01	< 0.01
Hydrogen Sulfide (mg/L)	<0.02	<0.02
Lead (µg/L)	< 5	< 5
Magnesium (mg/L)	<1	< 1
Specific Conductance (umhos/cm ²)	243	195
Sulfide (mg/L)	<0.2	<0.2
Total Hardness as CaCO ₃ (mg/L)	14	13.5

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.
pCi/L picocuries per Liter (measure of radioactivity)
N/A Not Applicable **nd** not detected **BDL** Below Detection Level
WTP=Water Treatment Plant - Nashua, **BT**=Bon Terrain Well - Amherst

If you have any questions about this report, or about your water quality, please call Gary Tetley, Water Quality Manager, at 1-603-913-2378 or 1-800-553-5191.

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.