

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

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

Analyte	WTP	Date	BT	Date	MCL
1,1,1,2-Tetrachloroethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,1,1-Trichloroethane	< 0.5	7/12/11	< 0.5	7/26/11	200
1,1,1,2,2-Tetrachloroethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,1,2-Trichloroethane	< 0.5	7/12/11	< 0.5	7/26/11	5
1,1-Dichloroethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,1-Dichloroethane	< 0.5	7/12/11	< 0.5	7/26/11	7
1,1-Dichloropropylene	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,2,3-Trichlorobenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,2,3-Trichloropropane	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,2,4-Trichlorobenzene	< 0.5	7/12/11	< 0.5	7/26/11	70
1,2,4-Trimethylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,2-Dibromo - 3- chloropropane	< 0.5	7/12/11	< 0.5	7/26/11	0.2
1,2-Dibromoethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,2-Dichlorobenzene	< 0.5	7/12/11	< 0.5	7/26/11	600
1,2-Dichloroethane	< 0.5	7/12/11	< 0.5	7/26/11	5
1,2-Dichloropropane	< 0.5	7/12/11	< 0.5	7/26/11	5
1,3,5-Trimethylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,3-Dichlorobenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,3-Dichloropropane	< 0.5	7/12/11	< 0.5	7/26/11	NR
1,4-Dichlorobenzene	< 0.5	7/12/11	< 0.5	7/26/11	75
2,2-Dichloropropane	< 0.5	7/12/11	< 0.5	7/26/11	NR
2-Chlorotoluene	<0.5	7/12/11	<0.5	7/26/11	0.5
2-Hexanone	<10	7/12/11	<10	7/26/11	NR
4 Methyl-2-Pentanone (MIBK)	<10	7/12/11	<10	7/26/11	NR
4-Chlorotoluene	<0.5	7/12/11	<0.5	7/26/11	0.5
4-Isopropyltoluene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Acetone	<10	7/12/11	<10	7/26/11	NR
Benzene	< 0.5	7/12/11	< 0.5	7/26/11	5
Bromobenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Bromochloromethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Bromodichloromethane	6.2	7/12/11	< 0.5	7/26/11	80
Bromoform	< 0.5	7/12/11	< 0.5	7/26/11	80
Bromomethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Carbon Disulfide	< 0.5	7/12/11	< 0.5	7/26/11	NR
Chlorobenzene	< 0.5	7/12/11	< 0.5	7/26/11	100
Chloroethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Chloroform	11	7/12/11	0.9	7/26/11	80

Analyte	WTP	Date	BT	Date	MCL
Chloromethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
cis-1, 2-Dichloroethylene	< 0.5	7/12/11	< 0.5	7/26/11	70
cis-1, 3-Dichloropropylene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Dibromochloromethane	1.7	7/12/11	< 0.5	7/26/11	80
Dibromomethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Dichlorodifluoromethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Diethyl ether	<0.5	7/12/11	< 0.5	7/26/11	NR
Diisopropyl Ether (DIPE)	< 0.5	7/12/11	< 0.5	7/26/11	NR
Ethyl Tert-Butyl Ether (ETBE)	< 0.5	7/12/11	< 0.5	7/26/11	NR
Ethylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	700
Hexachlorobutadiene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Isopropylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
m/p - Xylenes	< 0.5	7/12/11	< 0.5	7/26/11	NR
Methyl ethyl ketone (MEK) 2-Butanone	<10	7/12/11	<10	7/26/11	NR
Methylene chloride	< 0.5	7/12/11	< 0.5	7/26/11	5
Methyl-t-butyl-ether (MtBE)	< 0.5	7/12/11	< 0.5	7/26/11	13
Napthalene	< 0.5	7/12/11	< 0.5	7/26/11	NR
n-Butylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Nitrobenzene	<10	7/12/11	<10	7/26/11	NR
n-Propylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
o-Xylene	< 0.5	7/12/11	< 0.5	7/26/11	NR
sec Butylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Styrene	< 0.5	7/12/11	< 0.5	7/26/11	100
Tert-Amyl Methyl Ether (TAME)	< 0.5	7/12/11	< 0.5	7/26/11	NR
Tert-Butyl Alcohol (TBA)	<10	7/12/11	<10	7/26/11	NR
Tert-Butylbenzene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Tetrachloroethylene	< 0.5	7/12/11	< 0.5	7/26/11	5
Tetrachloromethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Tetrahydrofuran	<10	7/12/11	<10	7/26/11	NR
Toluene	< 0.5	7/12/11	< 0.5	7/26/11	1000
Total Trihalomethanes	18.9	7/12/11	0.9	7/26/11	80
Total Xylenes	< 0.5	7/12/11	< 0.5	7/26/11	10,000
Trans-1, 2-Dichloroethylene	< 0.5	7/12/11	< 0.5	7/26/11	100
Trans-1, 3-Dichloropropylene	< 0.5	7/12/11	< 0.5	7/26/11	NR
Trichloroethylene	< 0.5	7/12/11	< 0.5	7/26/11	5
Trichlorofluoromethane	< 0.5	7/12/11	< 0.5	7/26/11	NR
Vinyl chloride	< 0.5	7/12/11	< 0.5	7/26/11	2

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

	WTP	Date	BT	Date	MCL
1, 2-Dibromo-3-chloropropane (DBCP)	< 0.02	7/12/11	< 0.02	7/26/11	0.2
2,4,5-TP (Silvex)	< 0.25	7/12/11	< 0.25	7/26/11	50
2,4-D	< 1	7/12/11	< 1	7/26/11	70
3-Hydroxycarbofuran	< 1	7/12/11	< 1	7/26/11	NR
Alachlor	< 0.1	7/12/11	< 0.1	7/26/11	2
Aldicarb	< 1	7/12/11	< 1	7/26/11	NR
Aldicarb Sulfone	< 1	7/12/11	< 1	7/26/11	NR
Aldicarb Sulfoxide	< 1	7/12/11	< 1	7/26/11	NR
Aldrin	< 0.1	7/12/11	< 0.1	7/26/11	NR
Atrazine	< 0.1	7/12/11	< 0.1	7/26/11	3
Benzo(a)pyrene	< 0.1	7/12/11	< 0.1	7/26/11	0.2
Butachlor	< 0.1	7/12/11	< 0.1	7/26/11	NR
Carbaryl	< 1	7/12/11	< 1	7/26/11	NR
Carbofuran	< 1	7/12/11	< 1	7/26/11	40
Chlordane	< 0.4	7/12/11	< 0.4	7/26/11	2
Di (2-ethylhexyl) adipate	< 1	7/12/11	< 1	7/26/11	400
Di (2-Ethylhexyl) phthalate	< 1	7/12/11	< 1	7/26/11	6
Dicamba	< 0.5	7/12/11	< 0.5	7/26/11	NR
Dieldrin	< 0.1	7/12/11	< 0.1	7/26/11	NR
Dinoseb	< 1	7/12/11	< 1	7/26/11	7

	WTP	Date	BT	Date	MCL
Endrin	< 0.1	7/12/11	< 0.1	7/26/11	2
Ethylene dibromide (EDB)	< 0.02	7/12/11	< 0.02	7/26/11	0.05
Glyphosate	< 10	7/12/11	< 10	7/26/11	700
Heptachlor	< 0.1	7/12/11	< 0.1	7/26/11	0.4
Heptachlor Epoxide	< 0.1	7/12/11	< 0.1	7/26/11	0.2
Hexachlorobenzene	< 0.1	7/12/11	< 0.1	7/26/11	1
Hexachlorocyclopentadiene	< 0.1	7/12/11	< 0.1	7/26/11	50
Lindane	< 0.1	7/12/11	< 0.1	7/26/11	0.2
Methiocarb	< 1	7/12/11	< 1	7/26/11	7
Metolachlor	< 0.1	7/12/11	< 0.1	7/26/11	40
Methomyl	< 1	7/12/11	< 1	7/26/11	NR
Methoxychlor	< 0.1	7/12/11	< 0.1	7/26/11	40
Metribuzin	< 0.1	7/12/11	< 0.1	7/26/11	NR
Oxamyl (Vydate)	< 1	7/12/11	< 1	7/26/11	200
Pentachlorophenol	< 0.1	7/12/11	< 0.1	7/26/11	1
Picloram	< 0.5	7/12/11	< 0.5	7/26/11	500
Propachlor	< 0.1	7/12/11	< 0.1	7/26/11	NR
Propoxur (Baygon)	< 1	7/12/11	< 1	7/26/11	NR
Simazine	< 0.1	7/12/11	< 0.1	7/26/11	4
Toxaphene	< 2	7/12/11	< 2	7/26/11	3

INORGANIC CONTAMINANTS (b)

Analyte	WTP	Date	BT	Date	MCL
Antimony (µg/L)	< 2	7/12/11	< 2	8/5/09	6
Arsenic (µg/L)	< 2	7/12/11	< 2	8/5/09	10
Barium (mg/L)	< 0.01	7/12/11	< 0.01	8/5/09	2
Beryllium (µg/L)	< 2	7/12/11	< 2	8/5/09	4
Cadmium (µg/L)	< 2	7/12/11	< 2	8/5/09	5
Chromium (µg/L)	< 10	7/12/11	< 10	8/5/09	100
Cyanide (µg/L)	< 0.02	7/12/11	< 10	8/5/09	200
Fluoride (mg/L)	< 0.20	7/12/11	< 0.2	8/5/09	4
Mercury (µg/L)	< 0.1	7/12/11	< 0.2	8/5/09	2
Nickel (µg/L)	< 10	7/12/11	< 10	8/5/09	100
Nitrate-N (mg/L)	< 0.2	7/12/11	0.63	7/26/11	10
Nitrite-N (mg/L)	< 0.05	8/16/10	< 0.05	8/5/09	1
Selenium (µg/L)	< 5	7/12/11	< 5	8/5/09	50
Thallium (µg/L)	< 1	7/12/11	< 1	8/5/09	2

SECONDARY CONTAMINANTS (b) - AESTHETIC

Analyte	WTP	Date	BT	Date	SMCL
Chloride (mg/L)	66	7/12/11	20	8/5/09	250
Fluoride (mg/L)	< 0.20	7/12/11	< 0.20	8/5/09	2
Iron (mg/L)	< 0.01	2/7/12	0.01	8/5/09	0.3
Manganese (mg/L)	0.012	2/7/12	0.022	8/5/09	0.05
pH (Standard Units)	7.76	7/12/11	8.52	8/5/09	6.5 – 8.5
Silver (µg/L)	< 4	7/12/11	< 4	8/5/09	100
Sodium (mg/L)	42.2	2/7/12	31.3	8/5/09	100-250
Sulfate (mg/L)	7	7/12/11	8	8/5/09	250
Zinc (mg/L)	0.376	2/7/12	1.1	8/5/09	5

RADIOLOGICAL CONTAMINANTS (b)

Analyte (Units)	WTP	Date	BT	Date	MCL
Compliance Gross Alpha (pCi/L)	< 2.9	2007	ND - 0.7	2005	15
Combined Radium (pCi/L)	ND - 0.6	2007	0.1 - 0.7	2005	5
Uranium (µg/L)	< 0.9	2007	0.1 - 0.6	2005	30

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FIRST DRAW LEAD AND COPPER (a)

Analyte	Results	AL	Date
Lead (µg/L) 90th percentile sample	< 5	15	2011
Copper (mg/L) 90th percentile sample	0.080	1.3	2011

UNREGULATED CONTAMINANTS (b)

Analyte (Units)	WTP	Date	BT	Date
Radon Gas (pCi/L)	BDL	4/5/06	654	4/17/08
Total Hardness as CaCO ₃ (mg/L)	25.2	2/7/12	62.7	11/1/11
Total Phosphate as P (mg/L)	0.43	2/7/12		
Magnesium (mg/L)	1.5	2/7/12		
Calcium (mg/L)	7.6	2/7/12		
Copper (mg/L)	<0.01	2/7/12		

Microbiological Contaminants (a) Results MCL

Microbiological Contaminants (a)	Results	MCL
Total Coliform*	Absent	≤ 5% / month
E. coli*	Absent	Absent

*23 Samples are taken weekly from the distribution system.

Disinfection By-Products (a) Results MCL

Disinfection By-Products (a)	Results	MCL
Total Trihalomethanes (Running Annual Average)	21	80
Haloacetic Acids (Annual Running Average)	6	60

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 ≤ Less Than or Equal < Less Than **ND** Non Detect
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.