PENNICHUCK WATER WORKS
WATER QUALITY REPORT
SOUHEGAN WOODS - AMHERST, NH
EPA # 0072070

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

Analyte	Result	MCL	Date
1,1,1,2-Tetrachloroethane	< 0.5	NR	9/9/08
1,1,1-Trichloroethane	< 0.5	200	9/9/08
1,1,2,2-Tetrachloroethane	< 0.5	NR	9/9/08
1,1,2-Trichloroethane	< 0.5	5	9/9/08
1,1-Dichloroethane	< 0.5	NR	9/9/08
1,1-Dichloroethane	< 0.5	7	9/9/08
1,1-Dichloropropylene	< 0.5	NR	9/9/08
1,2,3-Trichlorobenzene	< 0.5	NR	9/9/08
1,2,3-Trichloropropane	< 0.5	NR	9/9/08
1,2,4-Trichlorobenzene	< 0.5	70	9/9/08
1,2,4-Trimethylbenzene	< 0.5	NR	9/9/08
1,2-Dibromo - 3- chloropropane	< 0.5	0.2	9/9/08
1,2-Dibromoethane	< 0.5	NR	9/9/08
1,2-Dichlorobenzene	< 0.5	600	9/9/08
1,2-Dichloroethane	< 0.5	5	9/9/08
1,2-Dichloropropane	< 0.5	5	9/9/08
1,3,5-Trimethylbenzene	< 0.5	NR	9/9/08
1,3-Dichlorobenzene	< 0.5	NR	9/9/08
1,3-Dichloropropane	< 0.5	NR	9/9/08
1,4-Dichlorobenzene	< 0.5	75	9/9/08
2,2-Dichloropropane	< 0.5	NR	9/9/08
2-Hexanone	< 0.5	NR	9/9/08
4 Methyl-2-Pentanone (MIBK)	< 0.5	NR	9/9/08
4-Isopropyltoluene	< 0.5	NR	9/9/08
Acetone	< 0.5	NR	9/9/08
Benzene	< 0.5	5	9/9/08
Bromobenzene	< 0.5	NR	9/9/08
Bromochloromethane	< 0.5	NR	9/9/08
Bromodichloromethane	0.9	80	9/9/08
Bromoform	< 0.5	80	9/9/08
Bromomethane	< 0.5	NR	9/9/08
Carbon Disulfide	< 0.5	NR	9/9/08
Chlorobenzene	< 0.5	100	9/9/08
Chloroethane	< 0.5	NR	9/9/08
Chloroform	0.6	80	9/9/08
Chloromethane	< 0.5	NR	9/9/08
cis-1, 2-Dichloroethylene	< 0.5	70	9/9/08
cis-1, 3-Dichloropropylene	< 0.5	NR	9/9/08
Dibromochloromethane	1.2	80	9/9/08

Analyte	Result	MCL	Date
Dibromomethane	< 0.5	NR	9/9/08
Dichlorodifluoromethane	< 0.5	NR	9/9/08
Diethyl ether	< 0.5	NR	9/9/08
Diisopropyl Ether (DIPE)	< 0.5	NR	9/9/08
Ethyl Tert-Butyl Ether (ETBE)	< 0.5	NR	9/9/08
Ethylbenzene	< 0.5	700	9/9/08
Hexachlorobutadiene	< 0.5	NR	9/9/08
Isopropylbenzene	< 0.5	NR	9/9/08
m/p - Xylenes	< 0.5	NR	9/9/08
Methyl ethyl ketone (MEK) 2-Butanone	< 0.5	NR	9/9/08
Methylene chloride	< 0.5	5	9/9/08
Methyl-t-butyl-ether (MtBE)	< 0.5	13	9/9/08
Napthalene	< 0.5	NR	9/9/08
n-Butylbenzene	< 0.5	NR	9/9/08
Nitrobensene	< 0.5	NR	9/9/08
n-Proplybenzene	< 0.5	NR	9/9/08
o-Chlorotoluene	< 0.5	NR	9/9/08
o-Xylene	< 0.5	NR	9/9/08
p-Chlorotoluene	< 0.5	NR	9/9/08
sec Butylbenzene	< 0.5	NR	9/9/08
Styrene	< 0.5	100	9/9/08
Tert-Amyl Methyl Ether (TAME)	< 0.5	NR	9/9/08
Tert-Butyl Alcohol (TBA)	< 0.5	NR	9/9/08
Tert-Butylbenzene	< 0.5	NR	9/9/08
Tetrachloroethylene	< 0.5	5	9/9/08
Tetrachloromethane	< 0.5	NR	9/9/08
Tetrahydrofuran	< 0.5	NR	9/9/08
Toluene	< 0.5	1000	9/9/08
Total Trihalomethanes	2.7	80	9/9/08
Total Xylenes	< 0.5	10,000	9/9/08
Trans-1, 2-Dichloroethylene	< 0.5	100	9/9/08
Trans-1, 3-Dichloropropylene	< 0.5	NR	9/9/08
Trichloroethylene	< 0.5	5	9/9/08
Trichlorofluromethane	< 0.5	NR	9/9/08
Vinyl chloride	< 0.5	2	9/9/08

DISINFECTION BY-PRODUCTS (a)

Total Trihalomethanes	<0.5	80	8/5/2010
Total Haloacetic Acids	< 1	60	8/5/2010
Chlorine Residual (mg/L)	0.39	<4.0	Weekly

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

2,4,5-TP (Silvex)	BDL	50	8/29/05
2,4-D	BDL	70	8/29/05
3-Hydorxycarbofuran	BDL	NR	8/29/05
Alachlor	BDL	2	8/29/05
Aldicarb	BDL	NR	8/29/05
Aldicarb Sulfone	BDL	NR	8/29/05
Aldicarb Sulfoxide	BDL	NR	8/29/05
Aldrin	BDL	NR	8/29/05
Atrazine	BDL	3	8/29/05
Benzo (A) pyrene	BDL	NR	8/29/05
Butachlor	BDL	NR	8/29/05
Carbaryl	BDL	NR	8/29/05
Carbofuran	BDL	40	8/29/05
Chlordane	BDL	2	8/29/05
Di (2-ethylhexyl) adipate	BDL	NR	8/29/05
Di (2-Ethylhexyl) phthalate	BDL	6	8/29/05
Dibromochloropropane (DBCP)	BDL	NR	8/29/05
Dicamba	BDL	NR	8/29/05
Dieldrin	BDL	NR	8/29/05

Dinoseb	BDL	7	8/29/05
Endrin	BDL	2	8/29/05
Ethylene dibromide (EDB)	BDL	0.05	8/29/05
Fluorene	BDL	NR	8/29/05
Glyphosate	BDL	700	8/29/05
Heptachlor	BDL	0.4	8/29/05
Heptachlor Epoxide	BDL	0.2	8/29/05
Hexachlorobenzene	BDL	1	8/29/05
Hexachlorocyclopentadiene	BDL	50	8/29/05
Lindane	BDL	0.2	8/29/05
Metholachlor	BDL	NR	8/29/05
Methomyl	BDL	NR	8/29/05
Methoxychlor	BDL	40	8/29/05
Metribuzin	BDL	NR	8/29/05
Oxamyl (Vydate)	BDL	200	8/29/05
Pentachlorophenol	BDL	1	8/29/05
Picloram	BDL	500	8/29/05
Propachlor	BDL	NR	8/29/05
Simazine	BDL	4	8/29/05
Toxaphene	BDL	3	8/29/05

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INORGANIC CONTAMINANTS (b)

Analyte	Results	MCL	Date
Antimony (µg/L)	<2	6	8/13/09
Arsenic (µg/L)	<2	10	8/13/09
Barium (mg/L)	<0.01	2	8/13/09
Beryllium (µg/L)	<2	4	8/13/09
Cadmium (µg/L)	<2	5	8/13/09
Chromium (µg/L)	<10	100	8/13/09
Cyanide (µg/L)	<10	200	8/13/09
Fluoride (mg/L)	<0.20	4	8/13/09
Mercury (µg/L)	<0.1	2	8/13/09
Nickel (µg/L)	<10	100	8/13/09
Nitrate-N (mg/L)	1.22	10	8/13/09
Nitrite-N (mg/L)	<0.050	1	8/13/09
Selenium (µg/L)	<5	50	8/13/09
Thallium (µg/L)	<1	2	8/13/09

FIRST DRAW LEAD AND COPPER (a)

Analyte	Results	AL	Date
Lead (µg/L) 90th percentile sample	< 5	15	2010
Copper (mg/L) 90th percentile sample	0.561	1.3	2010

Microbiological Contaminants (a)	Results	MCL	Date
Total Coliform	Absent	< 1/month	Monthly
E. coli	Absent	Absent	Monthly

SECONDARY CONTAMINANTS (b) - AESTHETIC

Analyte	Results	SMCL	Date
Chloride (mg/L)	42	250	8/13/09
Fluoride (mg/L)	<020	2	8/13/09
Iron (µg/L)	23	300	8/13/09
Manganese (µg/L)	38	50	8/13/09
pH (Units) average	6.83	6.0-7.88	8/13/09
Silver (µg/L)	<4	100	8/13/09
Sodium (mg/L)	25.6	100-250	8/13/09
Sulfate (mg/L)	3.3	250	8/13/09
Zinc (mg/L)	0.657	5	8/13/09

RADIOLOGICAL CONTAMINANTS (b)

Analyte (Units)	Results	MCL	Date
Adjusted Gross Alpha (pCi/L)	<2.5	15	1/29/07
Radon Gas (pCi/L)	<200	None	4/29/10
Uranium (ug/L)	<1.0	30	11/29/07
Radium 226	<0.01	5	11/29/07
Radium 228	<0.5	5	11/29/07

UNREGULATED CONTAMINANTS (b)

Analyte (Units)	Results	Date
Alkalinity as CaCO3 (mg/L)	64.5	8/13/09
Specific Conductance (umhos/cm2)	337	8/13/09
Total Hardness as CaCO3 (mg/L)	30	8/13/09
Magnesium (mg/L)	1.4	8/13/09
Hydrogen sulfide (mg/L)	<0.02	8/13/09
Sulfide (mg/L)	<0.2	8/13/09
Calcium (mg/L)	9.7	8/13/09
Orthophosphate (mg/L) average	2.24	Monthly

Water Source: One well which is supplemented by an interconnection with the Town of Merrimack.

Treatment: Chlorine to kill bacteria, Zinc Orthophosphate to inhibit corrosion, and Sodium Hydroxide to raise the pH to reduce corrosion.

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

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.