

**WATER QUALITY REPORT
CASTLE REACH, WINDHAM, NH
EPA # 2542140**

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

Analyte	Results	MCL	Date	Analyte	Results	MCL	Date
1,1,1,2-Tetrachloroethane	< 0.5	NR	7/17/24	Chloroform	2.9	80	7/17/24
1,1,1-Trichloroethane	< 0.5	200	7/17/24	Chloromethane	< 0.5	NR	7/17/24
1,1,2,2-Tetrachloroethane	< 0.5	NR	7/17/24	cis-1,2-Dichloroethylene	< 0.5	70	7/17/24
1,1,2-Trichloroethane	< 0.5	5	7/17/24	cis-1,3-Dichloropropylene	< 0.5	NR	7/17/24
1,1-Dichloroethane	< 0.5	NR	7/17/24	Dibromochloromethane	5.7	80	7/17/24
1,1-Dichloroethylene	< 0.5	7	7/17/24	Dibromomethane	< 0.5	NR	7/17/24
1,1-Dichloropropylene	< 0.5	NR	7/17/24	Dichlorodifluoromethane	< 0.5	NR	7/17/24
1,2,3-Trichlorobenzene	< 0.5	NR	7/17/24	Diethyl ether	< 0.5	NR	7/17/24
1,2,3-Trichloropropane	< 0.5	NR	7/17/24	Diisopropyl Ether (DIPE)	< 0.5	NR	7/17/24
1,2,4-Trichlorobenzene	< 0.5	70	7/12/23	Ethyl Tert-Butyl Ether (ETBE)	< 0.5	NR	7/17/24
1,2,4-Trimethylbenzene	< 0.5	NR	7/12/23	Ethylbenzene	< 0.5	700	7/17/24
1,2-Dibromo-3-chloropropane	< 0.5	0.2	7/12/23	Hexachlorobutadiene	< 0.5	NR	7/17/24
1,2-Dibromoethane	< 0.5	NR	7/12/23	Isopropylbenzene	< 0.5	NR	7/17/24
1,2-Dichlorobenzene	< 0.5	600	7/12/23	m/p - Xylenes	<1	NR	7/17/24
1,2-Dichloroethane	< 0.5	5	7/12/23	Methyl ethyl ketone (MEK) 2-Butanone	<10	NR	7/19/17
1,2-Dichloropropane	< 0.5	5	7/12/23	Methylene chloride	< 0.5	5	7/17/24
1,3,5-Trimethylbenzene	< 0.5	NR	7/12/23	Methyl-t-butyl-ether (MtBE)	< 0.5	13	7/17/24
1,3-Dichlorobenzene	< 0.5	NR	7/12/23	Napthalene	< 0.5	NR	7/17/24
1,3-Dichloropropane	< 0.5	NR	7/12/23	n-Butylbenzene	< 0.5	NR	7/17/24
1,4-Dichlorobenzene	< 0.5	75	7/12/23	Nitrobenzene	<10	NR	7/19/17
2,2-Dichloropropane	< 0.5	NR	7/12/23	n-Propylbenzene	< 0.5	NR	7/17/24
2-Butanone (MEK)	<10	NR	7/19/17	o-Xylene	< 0.5	NR	7/17/24
2-Chlorotoluene	<0.5	0.5	7/12/23	sec Butylbenzene	< 0.5	NR	7/17/24
2-Hexanone	<10	NR	7/19/17	Styrene	< 0.5	100	7/17/24
4 Methyl-2-Pentanone (MIBK)	<10	NR	7/19/17	Tert-Amyl Methyl Ether (TAME)	< 0.5	NR	7/17/24
4-Chlorotoluene	<0.5	0.5	7/12/23	Tert-Butyl Alcohol (TBA)	<10	NR	7/17/24
4-Isopropyltoluene	< 0.5	NR	7/12/23	Tert-Butylbenzene	< 0.5	NR	7/17/24
Acetone	<10	NR	7/19/17	Tetrachloroethylene	< 0.5	5	7/17/24
Benzene	< 0.5	5	7/12/23	Tetrachloromethane	< 0.5	NR	7/19/17
Bromobenzene	< 0.5	NR	7/12/23	Tetrahydrofuran	<10	NR	7/17/24
Bromochloromethane	< 0.5	NR	7/12/23	Toluene	< 0.5	1000	7/17/24
Bromodichloromethane	3.1	80	7/12/23	Total Trihalomethanes	34	80	7/12/23
Bromoform	3.1	80	7/12/23	Total Xylenes	< 0.5	10,000	7/17/24
Bromomethane	< 0.5	NR	7/12/23	trans-1,2-Dichloroethylene	< 0.5	100	7/17/24
Carbon Disulfide	< 0.5	NR	7/12/23	trans-1,3-Dichloropropylene	< 0.5	NR	7/17/24
Carbon Tetrachloride	< 0.5	5	7/12/23	Trichloroethylene	< 0.5	5	7/17/24
Chlorobenzene	< 0.5	100	7/12/23	Trichlorofluoromethane	< 0.5	NR	7/17/24
Chloroethane	<0.5	NR	7/19/17	Vinyl chloride	< 0.5	2	7/17/24

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

Analyte	Results	MCL	Date	Analyte	Results	MCL	Date
2,4,5-TP (Silvex)	< 0.25	50	7/18/24	Glyphosate	< 10	700	7/16/24
2,4-D	< 1	70	7/18/24	Heptachlor	< 0.1	0.4	7/32/24
3-Hydroxycarbofuran	< 1	NR	7/31/24	Heptachlor Epoxide	< 0.1	0.2	7/23/24
Alachlor	< 0.1	2	7/23/24	Hexachlorobenzene	< 0.1	1	7/23/24
Aldicarb	< 1	NR	7/31/24	Hexachlorocyclopentadiene	< 0.1	50	7/23/24
Aldicarb Sulfone	< 1	NR	7/31/24	Lindane	< 0.1	0.2	7/23/24
Aldicarb Sulfoxide	< 1	NR	7/31/24	Methiocarb	< 1	7	7/31/24
Aldrin	< 0.1	NR	7/23/24	Methomyl	< 1	NR	7/31/24
Atrazine	< 0.1	3	7/23/24	Methoxychlor	< 0.1	40	7/23/24
Benzo(a)pyrene	< 0.1	0.2	7/23/24	Metolachlor	< 0.1	40	7/23/24
Butachlor	< 0.1	NR	7/23/24	Metribuzin	< 0.1	NR	7/23/24
Carbaryl	< 1	NR	7/31/24	Oxamyl (Vydate)	< 1	200	7/31/24
Carbofuran	< 1	40	7/31/24	PCB Aroclor 1016	<0.08	NR	7/18/24
Chlordane	< 0.4	2	7/18/24	PCB Aroclor 1221	<0.08	NR	7/18/24
Dalapon	<1	200	7/18/24	PCB Aroclor 1232	<0.08	NR	7/18/24
Di (2-ethylhexyl) adipate	< 1	400	7/23/24	PCB Aroclor 1242	<0.08	NR	7/18/24
Di (2-Ethylhexyl) phthalate	< 1	6	7/23/24	PCB Aroclor 1248	<0.08	NR	7/18/24
Dibromochloropropane (DBCP)	< 0.02	0.2	7/19/17	PCB Aroclor 1254	<0.08	NR	7/18/24
Dicamba	< 0.5	NR	7/18/24	PCB Aroclor 1260	<0.08	NR	7/18/24
Dieldrin	< 0.1	NR	7/23/24	Pentachlorophenol	< 0.1	1	7/18/24
Dinoseb	< 1	7	7/18/24	Picloram	<2	500	7/18/24
Diquat	<1	20	7/17/24	Propachlor	< 0.1	NR	7/23/24
Endrin	< 0.1	2	7/23/24	Propoxur (Baygon)	< 1	NR	7/31/24
Ethylene dibromide (EDB)	< 0.02	0.05	7/18/24	Simazine	< 0.1	4	7/23/24
				Toxaphene	< 2	3	7/18/24

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RADIOLOGICAL CONTAMINANTS (b)

Analyte (Units)	Results	MCL	Date
Compliance Gross Alpha (pCi/L)	<3	15	7/25/24
Radium 226 & 228 (pCi/L)	<1	5	7/26/24
Uranium (µg/L)	3.7	30	7/12/24

FIRST DRAW LEAD AND COPPER (a)

Analyte	Results	AL	Date
Lead (µg/L) 90th percentile sample	0	15	12/7/22
Copper (mg/L) 90th percentile sample	0.238	1.3	12/7/2022

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INORGANIC CONTAMINANTS (b)

Analyte	Results	MCL	Date
Antimony (mg/L)	<0.001	0.006	7/23/24
Arsenic (mg/L)	0.0016	0.01	7/16/24
Barium (mg/L)	0.0054	2	7/16/24
Beryllium (mg/L)	<0.001	0.004	7/16/24
Cadmium (mg/L)	<0.001	0.005	7/16/24
Chromium (mg/L)	0.003	0.1	7/16/24
Fluoride (mg/L)	0.35	4	7/11/24
Mercury (mg/L)	<0.0001	0.002	7/23/24
Nitrate-N (mg/L)	< 0.2	10	7/11/24
Nitrite-N (mg/L)	< 0.2	1	7/11/24
Selenium (mg/L)	<0.001	0.05	7/26/24
Thallium (mg/L)	<0.001	0.002	7/23/24
Cyanide (mg/L)	<0.005	0.2	7/18/24

SECONDARY CONTAMINANTS (b) - AESTHETIC

Analyte	Results	SMCL	Date
Chloride (mg/L)	52	250	7/11/24
Fluoride (mg/L)	0.35	2	7/6/21
Iron (mg/L)	<0.01	0.3	7/19/24
Manganese (mg/L)	0.0037	0.05	7/16/24
pH (Standard Units)	7.07	6.5 – 8.5	7/11/24
Sulfate (mg/L)	22	250	7/11/24
Zinc (mg/L)	0.336	5	7/16/24

Microbiological Contaminants (a)	Results	MCL	Frequency
E. coli	Absent	Absent	Monthly
Chlorine Residual Range (mg/L)	0 - 0.31		

DISINFECTION BY-PRODUCTS (a)

Analyte	Results	MCL	Date
Total Trihalomethanes (µg/L)	24	80	9/30/24
Haloacetic Acids (µg/L)	<1	60	9/30/24

UNREGULATED CONTAMINANTS (b)

Analyte (Units)	Results	Date
Alkalinity as CaCO ₃ (mg/L)	164	7/15/24
Calcium (mg/L)	73	7/19/24
Copper (mg/L)	0.0119	7/16/24
Hardness, Total as CaCO ₃ (mg/L)	201	7/19/24
Magnesium (mg/L)	4.6	7/19/24
Nickel (mg/L)	0.0021	7/16/24
Radon Gas (pCi/L)	524	7/13/21
Sodium (mg/L)	24	7/19/24

Perfluorinated Chemicals (PFCs)

Analyte (Units)	Results	MCL	Date
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ng/L)	<2.00	NR	5/17/23
Perfluorobutanesulfonic acid (PFBS) (ng/L)	<2.00	NR	5/17/23
Perfluorohexanesulfonic acid (PFHxS) (ng/L)	<2.00	18	7/12/24
Perfluorononanoic acid (PFNA) (ng/L)	<2.00	11	7/12/24
Perfluorooctanesulfonic acid (PFOS) (ng/L)	<2.00	15	7/12/24
Perfluorooctanoic acid (PFOA) (ng/L)	<2.00	12	7/12/24

SOURCE WATER AND TREATMENT INFORMATION

Water Source: Two bedrock wells.

Treatment: sodium hydroxide for corrosion control, potassium permanganate followed by four greensand filters for reducing iron and manganese, filters to remove per- and polyfluoroalkyl substances (February 2023) and chlorine for 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 – These standards are developed to protect the aesthetic qualities of drinking water and are not health based 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 To **<** Less Than

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 Castle Reach on the state website at <https://www4.des.state.nh.us/DESOneStop/PWSDetail.aspx?ID=2542140>

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.