

WATER QUALITY REPORT
POWDER HILL
EPA # 0192050

Manchester Water Works-VOLATILE ORGANIC CONTAMINANTS (a) (Units µg/L)												
Analyte	TP /001	Date	TP /004	Date	MCL	Analyte	TP /001	Date	TP /004	Date	MCL	
1,1,1,2-Tetrachloroethane	ND	2/13/2024	ND	2/14/24	NR	cis-1, 2-Dichloroethylene	ND	2/13/2024	ND	2/14/24	70	
1,1,1-Trichloroethane	ND	2/13/2024	ND	2/14/24	200	cis-1, 3-Dichloropropene	ND	2/13/2024	ND	2/14/24	NR	
1,1,2,2-Tetrachloroethane	ND	2/13/2024	ND	2/14/24	NR	Dibromopropyl Ether (DIBE)	ND	2/13/2024	ND	2/14/24	NR	
1,1,2-Trichloroethane	ND	2/13/2024	ND	2/14/24	5	Dibromomethane (Methylene Bromide)	ND	2/13/2024	ND	2/14/24	NR	
1,1-Dichloroethane	ND	2/13/2024	ND	2/14/24	NR	Dichlorodifluoromethane (FREON-12)	ND	2/13/2024	ND	2/14/24	NR	
1,1-Dichloroethylene	ND	2/13/2024	ND	2/14/24	7	Diethyl ether	ND	2/13/2024	ND	2/14/24	NR	
1,1-Dichloropropene	ND	2/13/2024	ND	2/14/24	NR	Ethyl Tert-Butyl Ether (ETBE)	ND	2/13/2024	ND	2/14/24	NR	
1,2,3-Trichlorobenzene	ND	2/13/2024	ND	2/14/24	NR	Ethylbenzene	ND	2/13/2024	ND	2/14/24	700	
1,2,3-Trichloropropane	ND	2/13/2024	ND	2/14/24	NR	Hexachlorobutadiene	ND	2/13/2024	ND	2/14/24	NR	
1,2,4-Trichlorobenzene	ND	2/13/2024	ND	2/14/24	70	Hexachloroethane	ND	2/13/2024	ND	2/14/24	NR	
1,2,4-Trimethylbenzene	ND	2/13/2024	ND	2/14/24	NR	Isopropylbenzene	ND	2/13/2024	ND	2/14/24	NR	
1,2-Dichlorobenzene(o-dichlorobenzene)	ND	2/13/2024	ND	2/14/24	600	m,p - Xylenes	ND	2/13/2024	ND	2/14/24	10	
1,2-Dichloroethane	ND	2/13/2024	ND	2/14/24	5	Methyl tert-butyl ether (MTBE)	ND	2/13/2024	ND	2/14/24	13	
1,2-Dichloropropane	ND	2/13/2024	ND	2/14/24	5	Methylene chloride (Dichloromethane)	ND	2/13/2024	ND	2/14/24	5	
1,3,5-Trimethylbenzene	ND	2/13/2024	ND	2/14/24	NR	n-Butylbenzene	ND	2/13/2024	ND	2/14/24	NR	
1,3-Dichlorobenzene	ND	2/13/2024	ND	2/14/24	NR	n-Propylbenzene	ND	2/13/2024	ND	2/14/24	NR	
1,3-Dichloropropane	ND	2/13/2024	ND	2/14/24	NR	Naphthalene	ND	2/13/2024	ND	2/14/24	NR	
1,4-Dichlorobenzene(p-dichlorobenzene)	ND	2/13/2024	ND	2/14/24	75	o-Xylene	ND	2/13/2024	ND	2/14/24	10	
2-Chlorotoluene	ND	2/13/2024	ND	2/14/24	NR	sec-Butylbenzene	ND	2/13/2024	ND	2/14/24	NR	
4-Chlorotoluene	ND	2/13/2024	ND	2/14/24	NR	Styrene	ND	2/13/2024	ND	2/14/24	10	
4-Isopropyltoluene	ND	2/13/2024	ND	2/14/24	NR	Tert-Amyl Methyl Ether (TAME)	ND	2/13/2024	ND	2/14/24	NR	
Benzene	ND	2/13/2024	ND	2/14/24	5	Tert-Butyl Alcohol (TBA)	ND	2/13/2024	ND	2/14/24	NR	
Bromobenzene	ND	2/13/2024	ND	2/14/24	NR	Tert-Butylbenzene	ND	2/13/2024	ND	2/14/24	NR	
Bromochloromethane	ND	2/13/2024	ND	2/14/24	NR	Tetrachloroethylene	ND	2/13/2024	ND	2/14/24	5	
Bromodichloromethane (TTHM)	1.1	2/13/2024	ND	2/14/24	80	Tetrahydrofuran (THF)	ND	2/13/2024	ND	2/14/24	NR	
Bromoform (TTHM)	ND	2/13/2024	ND	2/14/24	80	Toluene	ND	2/13/2024	ND	2/14/24	1	
Bromomethane (Methylbromide)	ND	2/13/2024	ND	2/14/24	NR	Total Trihalomethanes (TTHMs)	3.1	2/13/2024	11	2/14/24	80	
Carbon Disulfide	ND	2/13/2024	ND	2/14/24	NR	Trans-1, 2-Dichloroethylene	ND	2/13/2024	ND	2/14/24	100	
Carbon Tetrachloride	ND	2/13/2024	ND	2/14/24	5	Trans-1, 3-Dichloropropene	ND	2/13/2024	ND	2/14/24	NR	
Chlorobenzene	ND	2/13/2024	ND	2/14/24	100	Trichloroethylene (Trichloroethylene)	ND	2/13/2024	ND	2/14/24	NR	
chloroDIBROMOMETHANE (TTHM)	ND	2/13/2024	2.3	2/14/24	80	Trichlorofluoromethane (FREON 11)	ND	2/13/2024	ND	2/14/24	NR	
Chloroform (TTHM)	2	2/13/2024	8.5	2/14/24	80	Vinyl chloride	ND	2/13/2024	ND	2/14/24	2	
Chloromethane (Methylchloride)	ND	2/13/2024	ND	2/14/24	NR	Xylene (Total)	ND	2/13/2024	ND	2/14/24	10	

Manchester Works Works SYNTHETIC ORGANIC CONTAMINANTS (b) (Units µg/L)												
Analyte	TP /001	Date	TP /004	Date	MCL	Analyte	TP /001	Date	TP /004	Date	MCL	
1,2-Dibromo-3-chloropropane (DBCP)	ND	2/13/2024	ND	2/13/2024	0.2	Heptachlor	ND	2/13/2024	ND	2/13/2024	400	
1,2-Dibromomethane (EDB, Ethylene dibromide)	ND	2/13/2024	ND	2/13/2024	50	Heptachlor Epoxide	ND	2/13/2024	ND	2/13/2024	200	
Chlordane	ND	2/13/2024	ND	2/13/2024	2	Hexachlorobenzene	ND	2/13/2024	ND	2/13/2024	1	
Toxaphene (Chlorinated Camphene)	ND	2/13/2024	ND	2/13/2024	3	Hexachlorocyclopentadiene	ND	2/13/2024	ND	2/13/2024	50	
2,4-D	ND	2/13/2024	ND	2/13/2024	70	Methoxychlor	ND	2/13/2024	ND	2/13/2024	40	
Dieldrin	ND	2/13/2024	ND	2/13/2024	200	Methoxychlor	ND	2/13/2024	ND	2/13/2024	NR	
Dicamba	ND	2/13/2024	ND	2/13/2024	NR	Methoxychlor	ND	2/13/2024	ND	2/13/2024	NR	
Dinoseb (2-Sec-butyl-4,6-dinitrophenol DNBP)	ND	2/13/2024	ND	2/13/2024	7	Propachlor	ND	2/13/2024	ND	2/13/2024	NR	
Pentachlorophenol	ND	2/13/2024	ND	2/13/2024	1	Simazine	ND	2/13/2024	ND	2/13/2024	4	
Picloram	ND	2/13/2024	ND	2/13/2024	500	3-Hydroxycarbofuran	ND	2/13/2024	ND	2/13/2024	NR	
Silvex (2,4,5-TP)	ND	2/13/2024	ND	2/13/2024	50	Aldicarb (TEMIK)	ND	2/13/2024	ND	2/13/2024	NR	
Alachlor	ND	2/13/2024	ND	2/13/2024	2	Aldicarb Sulfone	ND	2/13/2024	ND	2/13/2024	NR	
Aldrin	ND	2/13/2024	ND	2/13/2024	NR	Aldicarb Sulfonide	ND	2/13/2024	ND	2/13/2024	NR	
Atrazine	ND	2/13/2024	ND	2/13/2024	3	Carbaryl (Sevin)	ND	2/13/2024	ND	2/13/2024	NR	
Benz(a)pyrene	ND	2/13/2024	ND	2/13/2024	0.2	Carbofuran (Furadan)	ND	2/13/2024	ND	2/13/2024	40	
Bis (2-ethylhexyl)adipate	ND	2/13/2024	ND	2/13/2024	400	Methiocarb	ND	2/13/2024	ND	2/13/2024	NR	
Butachlor	ND	2/13/2024	ND	2/13/2024	NR	Methomyl (Lamate)	ND	2/13/2024	ND	2/13/2024	NR	
Di(2-Ethylhexyl)phthalate (Bis(2-ethylhexyl)phthalate, DEHP)	ND	2/13/2024	ND	2/13/2024	5	Oxamyl (Vydate)	ND	2/13/2024	ND	2/13/2024	200	
Dieldrin	ND	2/13/2024	ND	2/13/2024	NR	Propoxur (Baygon)	ND	2/13/2024	ND	2/13/2024	NR	
Endrin	ND	2/13/2024	ND	2/13/2024	2	Glyphosate	ND	2/13/2024	ND	2/13/2024	700	
GAMMA-BHC(Lindane, GAMMA-hexachlorocyclohexane)	ND	2/13/2024	ND	2/13/2024	200	Diquat	ND	2/13/2024	ND	2/13/2024	20	

Manchester Water Works-RADIOLOGICAL CONTAMINANTS (b)					
Analyte (Units)	TP /001	Date	TP /004	MCL	
Compliance Gross Alpha (pCi/L)	ND		ND	3/8/2024	15
Radium 226 & 228 (pCi/L)	ND		ND	3/8/2024	5
Uranium (µg/L)	ND		ND	3/8/2024	30

Manchester Water Works-Perfluorinated Chemicals (PFCs)					
Analyte (Units)	TP /001	Date	TP /004	MCL	
Perfluorohexanesulfonic acid (PFHxS) (ng/L)	0.653	3/13/2024	0.645	3/13/2024	18
Perfluorononanoic acid (PFNA) (ng/L)	0.752	3/13/2024	ND	3/13/2024	11
Perfluorooctane sulfonate (PFOS) (ng/L)	1.71	3/13/2024	1.01	3/13/2024	15
Perfluorooctanoic acid (PFOA) (ng/L)	6.51	3/14/2024	1.94	3/13/2024	12

Manchester Water Works-INORGANIC CONTAMINANTS (b)					
Analyte	TP /001	Date	TP /004	MCL	
Antimony (µg/L)	ND	8/16/2023	ND	8/16/23	6
Arsenic (µg/L)	ND	8/16/2023	ND	8/16/23	10
Barium (mg/L)	0.0135	8/16/2023	0.0055	8/16/23	2
Beryllium (µg/L)	ND	8/16/2023	ND	8/16/23	4
Cadmium (µg/L)	ND	8/16/2023	ND	8/16/23	5
Chromium (µg/L)	ND	8/16/2023	ND	8/16/23	100
Fluoride (mg/L)	0.72	8/16/2023	0.64	8/16/23	4
Mercury (µg/L)	ND	8/16/2023	ND	8/16/23	2
Nitrate-N (mg/L)	ND	8/16/2023	0.36	3/13/2024	10
Nitrite-N (mg/L)	ND	8/16/2023	ND	8/16/23	1
Selenium (µg/L)	ND	1/1/1900	ND	8/16/23	50
Thallium (µg/L)	ND	8/16/2023	ND	8/16/23	2

Manchester Water Works-SECONDARY CONTAMINANTS- AESTHETIC				
Analyte	TP /001	Date	TP /004	Date
Chloride (mg/L)	48	8/16/2024	64	8/16/23
Fluoride (mg/L)	0.72	8/16/2024	0.64	8/16/23
Iron (mg/L)	ND	8/16/2024	0.62	8/16/23
Manganese (mg/L)	0.0063	8/16/2024	ND	8/16/23
pH (Standard units)	7.88	8/16/2024	7.84	8/16/23
Sulfate (mg/L)	28	8/16/2024	7	8/16/23
Zinc (mg/L)	ND	8/16/2024	ND	8/16/23

Manchester Water Works-UNREGULATED CONTAMINANTS (b)				
Analyte (Units)	TP /001	Date	TP /004	Date
Alkalinity as CaCO ₃ (mg/L)	47	8/16/2023	38	8/16/23
Calcium (mg/L)	4.2	8/16/2023	4.7	8/16/23
Copper (mg/L)	ND	8/16/2023	ND	8/16/23
Hardness, Total as CaCO ₃ (mg/L)	10.5	8/16/2023	11.7	8/16/23
Magnesium (mg/L)	ND	8/16/2023	ND	8/16/23
Sodium (mg/L)	56	8/16/2023	52.7	8/16/23

Powder Hill DISINFECTION BY-PRODUCTS (a)				
Analyte	Average	Date	MCL	Quarterly
Total Trihalomethanes	4	5/7/2024	80	
Halooacetic Acids	3.3	5/7/2024	60	

Powder Hill Microbiological Contaminants (a)				
Analyte	Average	Frequency	Results	Quarterly
Total Coliform	Absent	Monthly	Absent	
E. coli	0.78	Monthly	Absent	
Chlorine Residual Range (mg/L)	0.55	Monthly	0.36-1.36	
Chloramines (ppm)	0.55	Monthly	ND-2.01	
Nitrite-Chloraminated (ppm)	0.01	Monthly	ND-0.09	

Powder Hill FIRST DRAW LEAD AND COPPER (a)				
Analyte	Average	Date	MCL	Quarterly
Lead (µg/L) 90th percentile sample	0	8/20/2024	15	
Copper (mg/L) 90th percentile sample	0.099	8/20/2024	1.3	

SOURCE WATER AND TREATMENT INFORMATION
Water Source: Manchester Water Treatment Plant: Lake Massabesic (TP /001) and Merrimack River (TP /004)
Treatment: Treatment for Manchester Water Works includes monochloramines for disinfection and fluorosilicic acid for preventing tooth decay. Additional information regarding your water can be found by visiting Manchester's Consumer Confidence Report website: <https://www.manchesternh.gov/Departments/Water-Works/Water-Quality-Report>

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 Matt Day, Water Supply Manager at 603-913-2377 or 800-553-5191.
 Visit the state website at <https://www4.des.state.nh.us/DESOneStop/PWSDetail.aspx?ID=0192050>.
 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.