**UNH Water Supply** 28 Waterworks Road Durham, NH 03824

\* If you are interested in learning more about the UNH-Durham Water System or in attending a future meeting, please contact the University or Public Works Department at the email or number listed above.

Phone:

868-5578

**Durham Public Works Department** 100 Stone Quarry Drive Durham, NH 03824

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2021 WATER QUALITY REPORT

SYSTEM- PWS ID

#

0691010

UNH-DURHAM

WATE

The water that the UNH-Durham Water System and Durham buildings and residences meets USEPA strict standards. This report has been c quality of drinking water delivered to you on a daily basis been created to meets or provides to ceeds State to inform State and

Town of Durham:
Richard Reine, Director of Public Works
April Talon, P.E., Town Engineer
Dwight Richard- Chief Operator-DPW UNH Water Matthew O'Keefe-Email:Matt.Ok Phone: and Utilities none: 862-1390

ector of Energy you of Where Does Your Water Come From?

The UNH-Durham Water System is a jointly operated water system, meaning that both UNH and the Town of Durham contribute to the production of safe drinking water. Your water comes from combined sources provided by UNH and/or the Town at any given time. There are 1,300 water meters in the Town's System, which are read monthly and billed guarterly and over 200 UNH meter locations.

The University owns and operates the Surface Water Treatment Plant, which includes the Lamprey River Pump Station, and the portion of the water distribution system serving the University. The brand-new Water Treatment Plant (WTP) became operational on March 13th, 2020 and replaces the Arthur Rollins Treatment Plant that was originally constructed in 1935. The raw water is supplied to the treatment plant from a reservoir on the Lamprey River and/or the Oyster River, or the Spruce Hole Well. This well serves a dual purpose: (1) to convey river water from the Lamprey River to artificially recharge the underlying aquifer; and (2) to convey groundwater from the Spruce Hole Well to the UNH-Durham Water System. In the treatment process chemicals are added to remove impurities through settling. The water is then filtered through layers of anthracite coal and sand. The final stage of treatment involves the addition of chlorine for disinfection, fluoride to minimize tooth decay, sodium hydroxide (caustic soda) for pH control, and blended phosphate to minimize corrosion of the piping system. The maximum capacity of the WTP is about 2 million gallons per day.

The Town of Durham owns and operates the Lee Well and Pump Station, Foss Farm and Beech Hill Storage Tanks, the Town reservoir behind the Wiswall Dam on the Lamprey River, Technology Drive and Madbury Road pressure stations and the portion of the distribution system serving the residents and businesses of the Town. The Town's portion of the water system is under direct control of the Durham Public Works Department. The Lee Well is a gravel packed well located on Angel Rd. in Lee, N.H. The Town of Durham owns the land on which the wellhead and pump house are sited. The well has an estimated safe yield of approximately 550,000 gallons per day. The well water is naturally filtered underground. Water pumped into the distribution system has chlorine added as a disinfectant, fluoride to minimize tooth decay, sodium hydroxide (caustic soda) for pH control, and blended phosphate to minimize corrosion of the piping system.

The Spruce Hole Water Supply is jointly owned between UNH and Durham and was brought online in 2016 providing additional water capacity and redundancy to the UNH-Durham water system. The location of the Spruce Hole Well (the Town's Gravel Pit) was acquired by the Town of Durham in 1982 and it has been used as a gravel/borrow pit for Town use only. The UNH/Durham Water System was awarded the 2017 Source Water Sustainability Award for our efforts in Water Conservation and development of the Spruce Hole Well and Artificial Recharge Project.

## Drinking Water Contaminants

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- -Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- -Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- -Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- -Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- -Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.
- -Lead- If present, elevated levels of lead can cause serious problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The UNH-Durham Water System is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800-426-4791 or at http://www.epa.gov/safewater/lead.

Why are contaminants in my water? Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the US Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) Some people may be more vulnerable to contaminants in drinking water than the general population. Immunecompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care provider. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The US Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Water Quality Data – Detected Regulated Contaminants in 2020: Sampling Dates: The State of New Hampshire allows water systems to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Thus some of the data presented, though representative, may be more than one year old.

Treatment   Part   Units   MCL   MCLG   Level Detected   Range   V/N   Source	LINII O C W C						VP I C	
Treatment Plant   Units   W.C.   Cever Detected   N/A   No   Soil runoff	UNH Surface Water	11	MOI	MOLO	Level Beterfort	D		Source
Fluoride								
Chlorine	•				, ,			SHIP AND CONTRACTOR AND THE PROPERTY OF THE PR
Barlum					( 0 /			
Total Organic Carbon   PPM			, ,		. ,			
Sodium					100 A 45 A			
Sodium	Total Organic Carbon	PPM	11	N/A	2.21 (average)	1.1-5.4	No	
Copper	Sodium	DDM	100.250	VeMCL)	28	NI/A	No	
Copper	Socium	FFIVI	100-230	(SIVICE)	20	IN/A	INU	Corresion of household plumbing systems
Sulfate	Copper	PPM	AI =1.3	1.3	0.0011	N/A	No	. ,
Chloride								
Compilance Gross   pCPL   15								
Uranium	Chloride						INO	waste water,roadsait,water softerners,corrosion
Radium 226				1.5	300000-0			
Radium 228				100				
PFOS (Raw Water)         ng/L         70 (PPT)         1 (MDL)         None Detected         N/A         No         Voluntary sampling of all source waters           PFOA (Raw Water)         ng/L         70 (PPT)         1 (MDL)         1.95         N/A         No         Voluntary sampling of all source waters           Town of Durham:         Lee Well         Units         MCL         MCL         Level Detected         Range         Vivilation         Vivilation         Source           Fluoride         PPM         4         4         0.65 (average)         0.26-0.91         No         Water additive that promotes strong teeth           Chiorine         PPM         4         0.97(average)         0.31-1.53         No         Water additive that promotes strong teeth           Sodium         PPM         1.00-250(sMCL)         44 (2019)         N/A         No         No         Erosion of natural deposits           Sodium         PPM         AL=1.3         1.3         0.0085 (2019)         N/A         No         Torontice a valuable treatment function           Copper         PPM         AL=1.3         1.3         0.0085 (2019)         N/A         No         Torontice a valuable treatment function         Torontice a valuable treatment function         Torontice a valuable treatment functi					55.555			environment
PFOA (Raw Water)   ng/L   70 (PPT)   1 (MDL)   1.95   N/A   No   Voluntary sampling of all source Waters	The second secon				15.000			
Town of Durham:   Loe Well   Units   MCL   MCLG   Level Detected   Range   Violation   Y/N   Water additive that promotes strong teeth   Chlorine   PPM   4   4   0.055 (average)   0.26-0.91   No   Water additive that promotes strong teeth   Chlorine   PPM   4   4   0.97 (average)   0.31-1.53   No   Water additive used to control microbes   Barium   PPM   2   2   0.012 (2019)   N/A   No   Erosion of natural deposits   Promodichiorometha   PPM   100-250 (sMCL)   44 (2019)   N/A   No   Erosion of natural deposits   Promodichiorometha   PPB   80   N/A   1.2   1.2   No   Run off from fertilizer use; leaching from septic   Landaum   Landaum	,						100 000 500	Voluntary sampling of all source waters
Lee Well	, ,	ng/L	70 (PPT)	1 (MDL)	1.95	N/A	100, 000, 000	Voluntary dampling of an oddrod watere
Lee Weil   Units   MCL   MCLG   Level Detected   Range   Y/N						_		Source
Chlorine								
Barium								
Sodium	1000 11 1000110101010101010101010101010							
Sodium	Barium	PPM	2	2	0.012 (2019)	N/A	NO NO	
Copper	Codium	DDM	100.250	VoMCL)	44 (2010)	NI/A	No	
Copper         PPM         AL=1.3         1.3         0.0085 (2019)         N/A         NO         tanks, sewage; erosion of natural deposits           Bromodichlorometha PPB         80         N/A         1.2         1.2         No           Dibromochlorometha PPB         80         N/A         1.3         1.3         No           Compliance Gross         pCi/L         15         0         0.7 (2016)         N/A         No           Uranium         ug/L         30         0         0.4 (2016)         N/A         No           Radium 226         pCi/L         5         0         1.3 (2016)         N/A         No           PFOS         ng/L         70 (PPT)         none detected         N/A         No           PFOS         ng/L         70 (PPT)         none detected         N/A         No           Spruce Hole Well (Raw Water)         Witts         MCL         MCL         Level Detected         Range         Y/N         No           Barium         mg/L         2         2         0.006 (2019)         N/A         No         Erosion of natural deposits           Compliance Gross         pCi/L         15         0         1.65 (2017)         0.4-3.0         No <td>Souluiii</td> <td>FFIVI</td> <td>100-250</td> <td>(SIVICE)</td> <td>44 (2019)</td> <td>IN/A</td> <td>INU</td> <td>provides a valuable treatment function  Run off from fertilizer use: leaching from sentice</td>	Souluiii	FFIVI	100-250	(SIVICE)	44 (2019)	IN/A	INU	provides a valuable treatment function  Run off from fertilizer use: leaching from sentice
Bromodichlorometha	Copper	PPM	AI =1.3	1.3	0.0085 (2019)	N/A	No	
Dibromochlorometha								
Compliance Gross         PCi/L         15         0         0.7 (2016)         N/A         No           Uranium         ug/L         30         0         0.4 (2016)         N/A         No           Radium 226         pCi/L         5         0         1.3 (2016)         N/A         No           PFOS         ng/L         70 (PPT)         none detected         N/A         No         Voluntary sampling of all source waters           PFOA         ng/L         70 (PPT)         1.76 AVG (ppt)         0 -3.28         No         Voluntary sampling of all source waters           Spruce Hole Well (Raw Water)         Units         MCL         MCL         Level Detected         Range         Violation           Barium         mg/L         2         2         0.006 (2019)         N/A         No         Erosion of natural deposits           Compliance Gross         pCi/L         15         0         1.65 (2017)         0.4-3.0         No         No         Erosion of natural deposits           Uranium         ug/L         30         0         0.8 (2017)         0.5-1.0         No         No         Naturally present radioactivity in the environment           Radium 226         pCi/L         5         0         0.63 (2	Dibromochlorometha							By-product of drinking water disinfection
Uranium         ug/L         30         0         0.4 (2016)         N/A         No         Naturally present radioactivity in the environment           Radium 226         pCi/L         5         0         1.3 (2016)         N/A         No           PFOS         ng/L         5         0         1.2 (2016)         N/A         No           PFOS         ng/L         70 (PPT)         none detected         N/A         No           PFOA         ng/L         70 (PPT)         1.76 AVG (ppt)         0 -3.28         No           Voluntary sampling of all source waters           Spruce Hole Well (Raw Water)         Units         MCL         MCL         Level Detected         Range         Violation YIN           Barium         mg/L         2         2         0.006 (2019)         N/A         No         Erosion of natural deposits           Compliance Gross         pCi/L         15         0         1.85 (2017)         0.4-3.0         No         No         No         Erosion of natural deposits           Uranium         ug/L         30         0         0.8 (2017)         0.5-1.0         No         No         No         No         Naturally present radioactivity in the environment           Radium 226								
Radium 228	Uranium			0				Naturally present radioactivity in the
PFOS   ng/L   70 (PPT)   none detected   N/A   No   No   No   No   No   No   No   N	Radium 226	pČi/L	5	0	1.3 (2016)	N/A	No	environment
PFOA   ng/L   70 (PPT)   1.76 AVG (ppt)   0 -3.28   No	Radium 228	pCi/L	5	0	1.2 (2016)	N/A	No	
Spruce Hole Well (Raw Water)	PFOS							Voluntary campling of all course waters
(Raw Water)         Units         MCL         MCLG         Level Detected         Range         Y/N         Source           Barium         mg/L         2         2         0.006 (2019)         N/A         No         Erosion of natural deposits           Compliance Gross         pCi/L         15         0         1.65 (2017)         0.4-3.0         No           Uranium         ug/L         30         0         0.8 (2017)         0.5-1.0         No           Radium 226         pCi/L         5         0         0.63 (2017)         0.5-0.8         No           Radium 228         pCi/L         5         0         0.23 (2017)         0.0-0.7         No           Glyphosate         ug/L         700         700         none detected (2020)         N/A         No         Runoff from herbicide use           PFOS         ng/l         70(ppt)         none detected         N/A         No         Voluntary sampling of all source waters           UNH 7 Durham         Distribution System         MCLG         Level Detected         Range         Y/N         Source           Copper         PPM         AL = 1.3         1.3         0.125 (90th percentile)         0 - 0.56         No         Corrosion of household		ng/L	70 (PPT)		1.76 AVG (ppt)	0 -3.28	No	voluntary sampling of all source waters
Range   Y/N   Barium   mg/L   2   2   0.006 (2019)   N/A   No   Erosion of natural deposits	Spruce Hole Well						Violation	Course
Compliance Gross         pCi/L         15         0         1.65 (2017)         0.4-3.0         No           Uranium         ug/L         30         0         0.8 (2017)         0.5-1.0         No           Radium 226         pCi/L         5         0         0.63 (2017)         0.5-0.8         No           Radium 228         pCi/L         5         0         0.23 (2017)         0.0-0.7         No           Glyphosate         ug/L         700         700         none detected (2020)         N/A         No         Runoff from herbicide use           PFOS         ng/l         70(ppt)         none detected         N/A         No         Voluntary sampling of all source waters           UNH 7 Durham         pistribution System         Units         MCL         MCLG         Level Detected         Range         Violation         Violation         Source           Copper         PPM         AL = 1.3         1.3         0.125 (90th percentile)         0 - 0.56         No         Corrosion of household plumbing systems           Lead         PPB         AL = 15         0         (90th percentile)         0 - 0.078         No         Sites above action level           Total         Trihalomethanes         PPB	(Raw Water)	Units	MCL	MCLG	Level Detected	Range	Y/N	Source
Uranium   Ug/L   30   0   0.8 (2017)   0.5-1.0   No   Radium 226   pCi/L   5   0   0.63 (2017)   0.5-0.8   No   Radium 228   pCi/L   5   0   0.23 (2017)   0.0-0.7   No   Radium 228   pCi/L   5   0   0.23 (2017)   0.0-0.7   No   Runoff from herbicide use	Barium	mg/L		2	0.006 (2019)		No	Erosion of natural deposits
Radium 226 pCi/L 5 0 0.63 (2017) 0.5-0.8 No Radium 228 pCi/L 5 0 0.23 (2017) 0.0-0.7 No Glyphosate ug/L 700 700 none detected (2020) N/A No PFOS ng/l 70(ppt) none detected N/A No PFOA ng/l 70(ppt) none detected N/A No UNH / Durham Distribution System Units MCL MCLG Level Detected Range Y/N Source  Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected Detected N/A No Corrosion of household plumbing systems  None Detected N/A No Corrosion of household plumbing systems  AL = 15 0 (90th percentile) 0 - 0.078 No Total Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No	Compliance Gross	pCi/L		0			No	
Radium 228 pCi/L 5 0 0.23 (2017) 0.0-0.7 No Glyphosate ug/L 700 700 none detected (2020) N/A No PFOS ng/l 70(ppt) none detected N/A No PFOA ng/l 70(ppt) none detected N/A No UNH / Durham Distribution System Units MCL MCLG Level Detected Range Y/N Source  Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected None Detected Corrosion of household plumbing systems/2  Lead PPB AL = 15 0 (90th percentile) 0 - 0.078 No Total Trihalomethanes PPB 80 N/A running average) 21.2 - 97.6 No Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No	Uranium							Naturally present radioactivity in the
Glyphosate ug/L 700 700 none detected (2020) N/A No Runoff from herbicide use  PFOS ng/l 70(ppt) none detected N/A No Voluntary sampling of all source waters  PFOA ng/l 70(ppt) none detected N/A No Voluntary sampling of all source waters  UNH / Durham Distribution System Units MCL MCLG Level Detected Range Y/N Source  Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected (90th percentile) 0 - 0.078 No Sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 - 97.6 No By-product of drinking water disinfection  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No								environment
PFOS ng/l 70(ppt) none detected N/A No Voluntary sampling of all source waters  PFOA ng/l 70(ppt) none detected N/A No Voluntary sampling of all source waters  UNH / Durham Distribution System Units MCL MCLG Level Detected Range Y/N Source  Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected PPB AL = 15 0 (90th percentile) 0 - 0.078 No sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No By-product of drinking water disinfection  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No								
PFOA ng/l 70(ppt) none detected N/A No Violation Source  UNH / Durham Distribution System Units MCL MCLG Level Detected Range Y/N Source  Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected O- 0.078 No Sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 - 97.6 No By-product of drinking water disinfection  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No				700	, ,			Runoff from herbicide use
UNH / Durham Distribution System Units MCL MCLG Level Detected Range Y/N Source  Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected Corrosion of household plumbing systems O- 0.078 No Sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No By-product of drinking water disinfection  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No								Voluntary sampling of all source waters
Distribution SystemUnitsMCLMCLGLevel DetectedRangeY/NSourceCopperPPMAL = 1.31.30.125 (90th percentile)0 - 0.56NoCorrosion of household plumbing systemsLeadPPBAL = 150(90th percentile)0 - 0.078NoCorrosion of household plumbing systems/2Total45.02 (highest local Trihalomethanes45.02 (highest local running average)21.2 - 97.6NoHaloacetic AcidsPPB60N/Arunning average)13.4 - 44.0No		ng/l	70(ppt)		none detected	N/A		Voluntary dumpling of an obardo watero
Copper PPM AL = 1.3 1.3 0.125 (90th percentile) 0 - 0.56 No Corrosion of household plumbing systems  None Detected (90th percentile) 0 - 0.078 No sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No By-product of drinking water disinfection  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No		I I a ! f a	MOL	MOLO	Lavel Defeated	Danna		Source
None Detected Lead PPB AL = 15 0 (90th percentile) 0- 0.078 No sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No  Corrosion of household plumbing systems/2 sites above action level  45.02 (highest local running average) 21.2 -97.6 No  24.82(highest local running average) 13.4 - 44.0 No	Distribution System	Units	MCL	WICLG	Level Detected	Range	Y/N	
None Detected Lead PPB AL = 15 0 (90th percentile) 0- 0.078 No sites above action level  Total Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No By-product of drinking water disinfection  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No	Copper	PPM	AL = 1.3	1.3	0.125 (90th percentile)	0 - 0.56	No	Corrosion of household plumbing systems
Lead         PPB         AL = 15         0         (90th percentile)         0- 0.078         No         sites above action level           Total         45.02 (highest local         45.02 (highest local         No         By-product of drinking water disinfection           Trihalomethanes         PPB         80         N/A         running average)         21.2 -97.6         No           Haloacetic Acids         PPB         60         N/A         running average)         13.4 - 44.0         No			1.5			2 0.00		Corrosion of household plumbing systems/2
Total 45.02 (highest local Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No By-product of drinking water disinfection Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No	Lead	PPB	AL = 15	0		0- 0.078	No	
Trihalomethanes PPB 80 N/A running average) 21.2 -97.6 No  24.82(highest local  Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No  By-product of drinking water disinfection	Total						~	Sites above determined
Haloacetic Acids PPB 60 N/A running average) 13.4 - 44.0 No		PPB	80	N/A	, •	21.2 -97.6	No	Decreased of alticulation of a district of
					24.82(highest local	1111	- 2.5	by-product of drinking water disinfection
	Haloacetic Acids				running average)			
		ated va	lue becaus	se the con		the quantific	cation limit	of the lab

ug/L: micrograms per Liter PPM: parts per million.

PPB: parts per billion. RDL: Reportable Detection Limit

N/A: not applicable.
NTU: nephelometric turbidity unit.

U: undetected rbidity unit. ng/L: nanogram/liter

Definitions/Abbreviations:

MCLG (Maximum Contaminant Level Goal) - The level of a containment in drinking water below which there is no known or expected risks to health. This allows for a margin of safety.

MCL (Maximum Contaminant Level) - The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to MCLG's as feasible using the best available treatment technology.

AL (Action Level) - The concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

TT (Treatment Technique) – A required process intended to reduce the level of a contaminant in drinking water.

Turbidity - A measure of the cloudiness of water. It is monitored because it is a good indicator of water quality and thus helps measure the effectiveness of the treatment process. High turbidity can hinder the effectiveness of disinfectants.

MRDLG (Maximum Residual Disinfectant Level Goal) - The level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

MRDL (Maximum Residual Disinfectant Level) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

pCi/L: picoCurie per Liter, a measurement of radioactivity in water. A picocurie is 10-12 curies and is the quantity of radioactive material producing 2.22 nuclear transformations per minute.

## Source Assessment Report

NH Department of Environmental Services has prepared a report that identifies possible contamination sources (monitored on a regular basis) and rates them from low to high with high being the worst for susceptibility. Examples of these levels would be as follows: high level could be a gas station, junk yard, highway, or landfill, a medium level would be an analytical laboratory or maintenance garage, a low level would be commercial buildings such as hardware stores.

The main purpose of the report is to show us what vulnerabilities are within our source water and what we can do to minimize them. Lee Well has 2 at high, 1 at medium, and 9 at low. The Oyster has 1 at high, 5 at medium, and 5 at low. The Lamprey has 2 at high, 6 at medium, and 5 at low. For more information, call the UNH Water Treatment Plant or visit NH DES's Drinking Water Source Assessment Program web site at www.des.state.nh.us/dwspp/.

## Unregulated Contaminant Monitoring Rule (UCMR 4, results as of 2020)

Contaminant (unit)	Level Detected	Range
UNH Surface Water		
Treatment Plant		
Manganese 55 (PPB)	none detected	0.01
Lee Well		
Manganese 55 (PPB)	none detected	n/a
Spruce Hole		
Nothing Detected	n/a	n/a
Source Water		
Oyster River		
Total Organic Carbon (PPM)	none detected	n/a
Lamprey River		
Total Organic Carbon (PPM)	4.27 (avg.)	1.9-7.0
Distribution System		
Foss Farm	ĺ	
Total HAA5 (PPB)	22.8 (avg.)	16.9 -31.0
Bromoacetic Acid (PPB)	2.45(avg)	ND-9.8
Chloroacetic Acid (PPB)	none detected	na
Dibromoacetic Acid (PPB)	none detected	na
Dichloroacetic Acid (PPB	8.2 (avg.)	2.9-11
Trichloroacetic Acid (PPB)	12.15 (avg.)	8.6-14.0
Harmony Homes		
Total HAA5 (PPB)	20.85 (avg.)	14.7-28.5
Bromoacetic Acid (PPB)	4.25( avg.)	8.1-8.9
Chloroacetic Acid (PPB)	none detected	na
Dibromoacetic Acid (PPB)	none detected	na
Dichloroacetic Acid (PPB)	6.1 (avg.)	2.7-8.6
Trichloroacetic Acid (PPB)	10.4 (avg.)	8.9-12.0
Health Services		
Total HAA5 (PPB)	19.65 (avg.)	13.4- 24.7
Bromoacetic Acid (PPB)	1.72(avg)	ND-6.9
Chloroacetic Acid (PPB)	none detected	na
Dibromoacetic Acid (PPB)	none detected	na
Dichloroacetic Acid (PPB)	7.27 (avg.)	3.5-11.0
Trichloroacetic Acid (PPB)	10.85 (avg.)	6.9-13.0
Gregg Hall		
Total HAA5 (PPB)	24.82 (avg.)	12.6 - 44.0
Bromoacetic Acid (PPB)	1.45(avg)	ND- 5.8
Chloroacetic Acid (PPB)	none detected	na
Dibromoacetic Acid (PPB)	none detected	na
Dichloroacetic Acid (PPB)	10.85 (avg.)	5.7-21.0
Trichloroacetic Acid (PPB)	12.5 (avg.)	6.9-23.0



"Your public water supply is fluoridated. According to the Center for Disease Control and Prevention, if your child under the age of 6 months is exclusively consuming infant formula reconstituted with fluoridated water, there may be an increased chance of dental fluorosis. Consult your child's health care provider for more information."