PWS #4296000 ISSUED JUNE 2021

Tisbury Water Works

2020 WATER QUALITY REPORT



We are pleased to present the annual Water Quality Report for 2020 and other helpful information.

The Safe Drinking Water Act (SDWA) requires that utilities issue an annual "Consumer Confidence" report to customers in addition to other notices that may be required by law. This report details where our water comes from, what it contains, and the risks our water testing and treatment are designed to prevent. TWW is committed to providing you with the safest and most reliable water supply. A Sanitary Survey is performed periodically by the Massachusetts Department of Environmental Protection (MassDEP) and is available upon request. This survey is conducted to ensure the TWW is following guidelines, policies and regulations as set forth by the MassDEP.

Informed consumers are our best allies in maintaining safe drinking water.

Drinking water, included bottled, may reasonably be expected to contain at least some small amounts of contaminants. It doesn't necessarily indicate that the water poses a health risk.

For more info about contaminants and their potential affects you can call the EPA's Safe Drinking Water Hotline (SDWH)

1-800-426-4791

IMPROVING OPERATIONS

We are continuing with the water main replacement project in the West Chop area to improve water quality and enhance fire flow protection. Thanks for your patience during the off-season site work. O relatório contém informações importantes sobre a qualidade da água da cidade. Você pode traduzi-lo com o Google Tradutor ou pedir a um amigo para ajudá-lo a entender melhor.

Pedimos desculpas pela inconveniência.



PO Box 84 Tisbury, MA 02568 tel. 508-693-3100 fax 508-338-7776

Contact

Christopher Cassidy Water Superintendent ccassidy@tisburyma.gov Office Hours: 8am - 4pm

Governing Board

Tisbury Board of Water Commissioners David J. Schwab, Chairman Roland Miller • Elmer Silva

Monthly Meetings

Open to the public

First Wednesday of every month, 4:00pm at our office 400 W. Spring St.



If you wish to speak at a meeting, please call the office in advance to be scheduled on the agenda. Agendas are posted on the Town's website at least 48 hours in advance.

TISBURY WATER WORKS JUNE 2021

Where Does Our Water Come From?

The Tisbury Water Works (TWW) receives its water from three supply sources: the Sanborn, Tashmoo and Matner Wells. All sources are groundwater supplied from the Island's sole source aguifer.

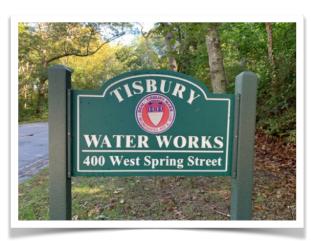
An Aquifer is an underground layer of water-bearing permeable rock or unconsolidated materials (gravel, sand, silt or clay) from which groundwater can be extracted. An aquifer is recharged from rainwater and snowmelt, and from lakes and rivers. Groundwater can easily be polluted by seepage from landfills, septic tanks, from leaky underground fuel tanks, and sometimes from fertilizers or pesticides. Once polluted, the water becomes no longer safe to drink. By refusing sources of pollution, our groundwater will continue to be an important natural resource.

The **Sanborn** Well (Well #1), off Edgartown Road, is a 220 foot deep gravel-packed well, in operation since 1952. It is currently capable of pumping 950 gallons per minute (gpm).

The **Tashmoo** Well (Well #2) on W. Spring St., is a 219 foot deep gravel-packed well, in operation since 1965. It is currently capable of pumping 850 gpm.

The **Manter** Well (Well #3) off Old Holmes Hole Road, is a 215 foot deep gravel-packed well, and was put on-line in 2004. It is capable of pumping 1,000 gpm.

There is an emergency interconnection with the Oak Bluffs Water District (OBWD) on Edgartown Rd. This allows TWW to get water from OBWD in an emergency, ensuring a constant supply of water to our customers.





Some Terms Defined:

Action Level: The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

Maximum Contaminant Level Goal (MCLG): the level of a contaminant in drinking water below which there is no know or expected risk to health. MCLG's allow for a margin of safety.

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

Secondary Maximum Contaminant Levels (SMCL): these standards are developed to protect the aesthetic qualities of drinking water and are not health-based.

Massachusetts Office of Research and Standards Guideline (ORSG): this is the concentration of a chemical in drinking water, at or below which, adverse non-cancer health effects are likely to occur after chronic (lifetime) exposure. If exceeded, it seers as an indicator of the potential need for further action.

Total Conform: a bacteria that indicates other potentially harmful bacteria may be present.

90th Percentile: out of every 10 homes, 9 were at or below this level.

CROSS CONNECTION CONTROL

Tisbury Water Works recommends the installation of Hose Bibb type vacuum breakers on all outside faucets. This will protect residents from the potential of backflow into their homes and the water system from a hose connection. Studies have shown that hoses are the most commonly unprotected cross connection.

TISBURY WATER WORKS JUNE 2021

This table shows the results of our water quality analysis. Although we run well over 1,000 different tests throughout the year, the table below lists the only substances that we detected in the water, even in the most minute traces. They are all below the Maximum Contaminant Levels. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals of public health, the amount detected, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement. Definitions of MCL & MCLG are important.

2020 WATER QUALITY TESTING DATA	PWSID #4296000			000				
	Date				Detected			Violation
Contaminants	Tested	Units	MCL	MCLG	Level	Range	Major Sources	(Yes/No
							.,	
Regulated Substances								
Inorganic Contaminants								
Barium	2020	ppm	2	2	0.011	n/a	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits;	No
							Runoff from fertilizer use; leaching from septic tanks;	
Nitrate	2018	ppm	10	10	0.40	0.30 - 0.75	sewerage; erosion of natural deposits	No
Asbestos Sodium	2013	MFL	7	0 20	4.00 15	n/a	Asbestos-cement water main pipe.	No
Vitrite	2020 2020	ppm	1	20	ND	0-20	Road run-off and corrosion control chemicals;	No No
Radioactive Contaminants	2020	ppm	'		ND		Naturally occurring in the environment	INO
Gross Alpha Activity	2012	pCi/L	15	0	0.75	n/a	Erosion of natural deposits	No
Radium 226 & 228	2015	pCi/L	5	0	0.56	n/a	Erosion of natural deposits	No
	20.0	POUL			0.00	1,74	Elocion of hazarar appoints	
Synthetic Organic Contaminants								
Di(2-Ethylhexyl) phthalate	2012	ppb	6	0	2.5	ND - 2.5	Discharge from rubber and chemical factories	No
Volatile Organic Contaminants								
Chloroform	2020	ppb			2.84	2.87	Erosion of natural deposits	No
Tetrachloroethylene (PCE)	2020	ppb	5	0	ND	ND - 0.72	Lining of asbestos cement water mains	No
Lead & Copper								
Tap water samples were collected for lead and coppe	r analysis fro	om 31 h	omes ti	nroughou	ut the servic	e area.		
			AL		10th Davaantii	_		
_ead	2018	ppm	0.015	0	0.006	ND - 0.081	Corrosion in household plumbing	No
Copper	2018	ppm	1.30	1.30	0.260		Corrosion in household plumbing	No
орреі Страна Страна Стран	2010	ррпп	1.00	1.50	0.200	0.040 - 0.440	Corrosion in nousehold planibling	INU
Unregulated Substances	Date	Units	SMCL		Level	Range		
Sulfate	2018	nnm	250		3.3	3.0 -5.3	Noti welly appropriate in the provincement	No
ron	2018	ppm	0.26		0.35	0.02 - 0.35	Naturally occurring in the environment Naturally occurring in the environment	INU
Manganese	2020	ppm	0.009		0.018	.007012	Naturally occurring in the environment	No
Hardness	2018	ppm	n/a		7.4	9.3 - 16.0	As CaCO3	110
Alkalinity	2018	ppm	n/a		25	24.8 - 47.2	As CaCO3	
•		p.p						
Unregulated Contaminants Monitoring Rule - 3								
Chromium(Total)	2020	ppb			ND	0.2 - 0.4	Naturally occurring element; used in making steel and	
,							other alloys; chromium-6 used in chrome plating, dyes	
Chromium (IV)	2014	ppb			0.17	0.12 - 0.17	and pigments, leather tanning and wood preservation.	
							Naturally occurring element; used in cathode ray tube	
Strontium	2014	ppb			31.6	14.5 - 31.6	televisions	
Chlorate	2014	ppb			44	ND - 44	Agricultural defoliant or dessicant	
PFAS - US EPA LAB METHOD 537.1								
FIAS - 03 EFA EAB METHOD 337.11 Fashmoo Well PFOS,PFOA,PFHxS PFNA, PFHpA,PFDA	2020	ppt		>20	ND	ND-21	Artificially created substances found in drinking water	No
Sanborn Well PFOS,PFOA,PFHxS,PFNA,PFHpA,PFDA	2020	ppt		>20	ND	ND-21	Artificially created substances found in drinking water	No
Manter Well PFOS,PFOA,PFHxs,PFNA,PFHpA,PFDA	2020	ppt		>20	ND	ND-21	Artificially created substances found in drinking water	No
······································		PP-					,g	
Microbial Contaminants	Highest # Positive in a Month	М	MCL		ICLG	Violation		
Fotal Coliform	3		1		0	Yes	Naturally occurring in the environment	
Fecal coliform - E-coli	0		*		0	No	Human and animal fecal waste	
Compliance with the Fecal Coliform/E. Coli MCL is d		pon ado	litional	testing.				
Total Coliform: Coliforms are bacteria that are naturally present								
n more samples than allowed and this is a warning of potential lushing and chlorinating the system, subsequent samples came								

TISBURY WATER WORKS J U N E 2 0 2 1

Source Waters and Their Potential Contaminants

The sources of drinking water (both tap and bottled) 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 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:

A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring as a result of urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming. C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff and residential uses. D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems. E) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provide by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

LEAD IN OUR DRINKING WATER

If present, elevated levels of lead can cause serious health 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. *Tisbury Water Works* 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 it 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 or http://www.epa.gov/ground-water-and-drinking-water

Is My Water Treated?

Many drinking water sources in New England are naturally corrosive (e.g. they have a pH of less than 7.0). The water they supply has a tendency to corrode and dissolve the metal piping it flows through. This not only damages pipes, but can also add harmful metals such as lead and copper to the water. Therefore it is beneficial to add chemicals that make the water neutral or slightly alkaline.

The Tisbury Water Works adds sodium hydroxide (25% NaOH) to its water to increase the pH levels and control corrosion. Testing throughout the water system has shown that this treatment has been effective at reducing lead and copper concentrations, and has helped to retard the corrosion of iron in our old cast iron mains.

People At Risk

Some people may be more vulnerable to contaminants in drinking water. Immuno-compromised persons, such as those undergoing chemotherapy, those who have had transplants, and people with HIV/Aids or other immune system disorders; and some elderly or infants can be particularly at risk for infections. One can seek advice from their doctors. The EPA/CDC guidelines for appropriate means to lessen the risk of infection by Cryptosporidium are available from calling the Safe Drinking Water Hotline 800-426-4791

TISBURY WATER WORKS JUNE 2021

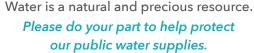
YOUR EMERGENCY CONTACT INFO

In the event of an emergency, it is imperative to quickly get ahold of our water customers.

If you have recently changed your telephone number, mailing address or any other contact information, please go to our website and click "Update Your Customer Contact Information" from the green boxes on the left side. It's also easy to add an emergency contact for when you're away from the island, or caretaker/plumber to your call list.

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Every Drop Counts!





SWAP (Source Water Assessment and Protection)

The Massachusetts Dept. of Environmental Protection has prepared a SWAP Report for The Tisbury Water Works. The report assesses the susceptibility of public water supplies to contamination and makes recommendations. This report is available on our town's website:

https://www.tisburyma.gov/tisbury-water-works/faq/what-our-swap-report

A susceptibility ranking of high was assigned to all wells in our system by the MassDEP based on the presence of one high threat land use within the water supply protection areas. However our wells and drinking water meets or exceeds all US EPA and MassDEP drinking water quality standards.



Be assured that the Tisbury Water Works has addressed concerns as stated in the last SWAP report. In an effort to protect our drinking water supply we have posted signs like the one pictured to the right to advise people when they have entered the Zone 1 of one of our wells. Please use extra care when in these areas to ensure the protection of our precious resource.



The elevated water tank on High Point Lane contains 350,000 gallons of drinking water.