



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 8 New Bond Street, Worcester MA 01606 • 508-792-7650

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February 25, 2019

Groton Water & Sewer Department
173 Main Street
Groton, MA 01450

PWS Town: GROTON
PWS Name: Groton Water Department
PWSID#: 2115000
Program: Water Quality - Manganese

Attn: Thomas Orcutt, Water Superintendent

Re: Manganese Results Greater than 0.30 mg/L

Dear Public Water Supplier,

The Massachusetts Department of Environmental Protection (MassDEP) is in receipt of your latest manganese results. Your test results confirm that the manganese level in your finished water is greater than 0.30 mg/L, MassDEP's Office of Research and Standards Guidance Level (ORSGL) for manganese. MassDEP recommends that people drink water with manganese levels less than 0.30 mg/L over a lifetime and also recommends that people limit their consumption of water with levels over 1.0 mg/L, primarily to decrease the possibility of adverse neurological effects. ***Infants up to one year of age should not be given water with manganese over 0.30 mg/L, nor should formula for infants be made with that water for more than a total of 10 days throughout the year.***

See MassDEP's website for more information about manganese in drinking water

<https://www.mass.gov/lists/contaminants-in-drinking-water#manganese->

PWSID	PWS NAME	CLASS	WATER TYPE	LOC CODE	LOC NAME	COLLECTED	CHEMICAL NAME	RESULT	UOM
2115000	GROTON WATER DEPARTMENT	COM	F	04G	WHITNEY WTF WELL #2 (TREATED)	30-Jan-19	MANGANESE	0.364	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	04G	WHITNEY WTF WELL #2 (TREATED)	26-Dec-18	MANGANESE	0.439	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	04G	WHITNEY WTF WELL #2 (TREATED)	01-Oct-18	MANGANESE	0.446	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	04G	WHITNEY WTF WELL #2 (TREATED)	19-Jul-18	MANGANESE	0.278	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	04G	WHITNEY WTF WELL #2 (TREATED)	11-Apr-18	MANGANESE	0.23	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	04G	WHITNEY WTF WELL #2 (TREATED)	16-Jan-18	MANGANESE	0.265	MG/L

PWSID	PWS NAME	CLASS	WATER TYPE	LOC CODE	LOC NAME	COLLECTED	CHEMICAL NAME	RESULT	UOM
2115000	GROTON WATER DEPARTMENT	COM	F	03G	WHITNEY WTF WELL #1 (TREATED)	30-Jan-19	MANGANESE	0.31	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	03G	WHITNEY WTF WELL #1 (TREATED)	26-Dec-18	MANGANESE	0.214	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	03G	WHITNEY WTF WELL #1 (TREATED)	01-Oct-18	MANGANESE	0.325	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	03G	WHITNEY WTF WELL #1 (TREATED)	10-Jul-18	MANGANESE	0.167	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	03G	WHITNEY WTF WELL #1 (TREATED)	08-May-18	MANGANESE	0	MG/L
2115000	GROTON WATER DEPARTMENT	COM	F	03G	WHITNEY WTF WELL #1 (TREATED)	22-Jan-18	MANGANESE	0.202	MG/L

MassDEP is requiring you to take the following actions:

1. The manganese health advisory information was already provided to your customers in your latest CCR, therefore no general public notice is required but **you must notify new customers and new billing units of these results** in accordance with 310 CMR 22.03(8) and 310 CMR 22.16 (1) (a) 3 e and 310 CMR 22.15(3) (b) until MassDEP determines that the level is reliably and consistently below 0.30 mg/L. **You must also continue to follow any and all directions from MassDEP regarding public notification requirements.** You may use the attached public advisory to inform your new customers and new billing units about the potential health concerns of exposure to elevated concentrations of manganese in drinking water to certain sub-populations, or you can provide them with a copy of your most recent CCR. If you choose to use a different notice or add any system specific information to the attached public advisory you must receive written approval from your MassDEP regional office. **You must include your procedure for notifying new customers and new billing units in your plan submission** (see number 3 below).
2. **For Community systems: Continue to report manganese results in your annual Consumer Confidence Report (CCR) and include specific language** in accordance with 310 CMR 22.16A (8) (a), 310 CMR 22.16A (8) (f), 310 CMR 22.16A (23) until your results are below 0.05 mg/L. For specific language and instructions please see: "Manganese Reporting in Consumer Confidence Reports" at <https://www.mass.gov/service-details/manganese-reporting-in-consumer-confidence-reports>
3. **Submit a proposed compliance plan to reduce the level of manganese** at the location(s) specified to a level reliably and consistently below 0.30 mg/L (preferably below the SMCL of 0.05 mg/L) **by September 1, 2019** and a Final Plan **by February 1, 2020** in accordance with 310 CMR 22.03(8) and 310 CMR 22.03(14)(a).

Attached is a template form for you can use to complete and return to MassDEP with the details of your plan. The plan must indicate how you plan to bring the levels below 0.30 mg/L, preferably reliably and consistently below 0.30 mg/L at the entry point to the distribution system. We encourage you to consult with your regional MassDEP DWP representative for compliance assistance in developing a plan to manage and address the manganese levels in your system.

4. **Continue ongoing water quality monitoring** and data submittals according to your system's sampling schedule pursuant to 310 CMR 22.03(2), 310 CMR 22.03(10), 310 CMR 22.07D, and 310 CMR 22.03(8).

Thank you for your efforts and commitment to provide a safe drinking water supply for your consumers. Please contact your regional drinking water technical assistance provider Paula Caron [Paula.Caron@mass.gov] or 508-767-2719, if you would like to discuss this information.

Sincerely,



Robert A. Bostwick
Drinking Water Section Chief
MassDEP Central Regional Office

Attachments: Manganese Fact Sheet
 Manganese Compliance Action Plan (CAP) Form
 Manganese CCR Reporting Required Health Language

cc:

Local Board of Health
Mark Haddad, Town Manager, 173 Main St., Groton, MA 01450
WS "File Copy"
DWP Scanned Document Archive (pdf)
File Name: Groton-2115000-WQ-Manganese Notification-2019-02-25