



**Environmental
Protection Agency**

John Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Smith, Director

September 11, 2012

RE: GEAUGA COUNTY
RUSTIC PINES MOBILE HOME PARK
COMMUNITY WATER SYSTEM
PWS ID #OH2802112

Ms. Julie Vantaggi
Rustic Pines Mobile Home Park
6 Corporation Center
Broadview Heights, OH 44147

**SUBJECT: NOTICE OF VIOLATION OF THE SECONDARY CONTAMINANT
STANDARDS - MANGANESE**

Dear Ms. Vantaggi:

This office has received the monthly operating report (MOR form 5002) for July 2012 from the Rustic Pines Mobile Home Park. The MOR is provided as a means to relay compliance information about the operation of the water treatment plant. Operational monitoring is conducted throughout the month to test the treatment effectiveness of the water plant. Since Rustic Pines treats its water by filtration for iron and manganese removal, and adds chlorine as a disinfectant, you are required to conduct monitoring for iron, manganese, and chlorine residual.

Manganese

Please note the following violation:

At least one sample each week for manganese is required to be analyzed by a certified laboratory. In accordance with Ohio Administrative Code (OAC) 3745-82-02, plant tap manganese levels shall be in violation of the secondary maximum contaminant level (SMCL) of 0.05 mg/L when more than 25% of samples collected exceed the SMCL. This is the case for the samples collected in July.

For July 2012, the manganese levels were reported as summarized in the following table:

Sample Collection Date	Manganese Results (mg/L) (MCL = 0.05 mg/L)
July 6, 2012	0.916
July 12, 2012	0.778
July 20, 2012	1.2
July 27, 2012	1.28

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Detail plans to upgrade the water treatment system were submitted and approved by the director on July 6, 2011. Water treatment equipment was installed as per detail plan approval in April 2012, with the exception of the storage tank and pumps. Ohio EPA conducted a Limited Scope Site Visit on August 14, 2012 and found that the system was operating the treatment and feeding the potassium permanganate as per the detail plan approval.

The new equipment has resulted in lowering the iron in the water to acceptable levels below the secondary Maximum Contaminant Level (MCL). However, it also resulted in doubling the manganese levels. Manganese levels have exceeded the levels set in OAC Rule 3745-82-02 for almost three years. It currently appears that the iron may be overwhelming the greensand coating. In a phone conversation of August 14, 2012, Ohio EPA suggested the following:

- Increase the potassium permanganate feed;
- Batch regenerate the greensand filters with a large amount of potassium permanganate as needed;
- If not backwashing daily, increase the number of times per week the greensand filters are backwashed, up to daily;
- Determine whether the flow through the filters is as designed (could the water be flowing through the filters too quickly because the storage tanks were not installed?); and
- Check with the installer of the water system to determine optimal performance goals.

If you have any questions regarding this correspondence, or if you need any assistance, please contact me at 330-963-1149 or at my e-mail address, kathy.metropulos@epa.state.oh.us.

Sincerely,



Kathy Metropulos
Environmental Specialist
Division of Drinking and Ground Waters

KM:ds

pc: Kim Ethers, Ohio EPA, DDAGW-DW, NEDO
Geauga County Health Department