



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

March 18, 2013

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 reports (MOR form 5002) for November and December 2012, and January 2013 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 violations:

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 remain below the secondary maximum contaminant level (SMCL) of 0.05 mg/L.

During the months of November and December 2012, and January 2013, the manganese levels were reported as summarized in the following table:

Sample Collection Date	Manganese Results (mg/L) (MCL = 0.05 mg/L)
November 2, 2012	1.47
November 8, 2012	1.6
November 16, 2012	0.286
December 13, 2012	0.081
December 21, 2012	0.063
December 28, 2013	0.07
January 4, 2013	0.073
January 11, 2013	0.088
January 17, 2013	0.793
January 25, 2013	0.316

The results indicate that your system is not adequately removing manganese. The results must be below 0.05 mg/L in accordance with OAC Rule 3745-82-02.

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. After the installation of the equipment, the Monthly Operating Report indicated that iron values fell to below the secondary maximum contaminant level of 0.3 mg/L, however, manganese doubled.

Ohio EPA conducted a limited scope site visit on August 14, 2012, and found that the system was operating the treatment plant and feeding the potassium permanganate as required by the detail plan approval.

It appeared that the iron may be overwhelming the greensand coating. Ohio EPA made some suggestions in a phone conversation on August 14, 2012. The system implemented the suggestions, and manganese levels lowered to below the MCL in four consecutive samples in September and October 2012. Unfortunately, manganese levels have been above the MCL of 0.05 mg/L in over 75% of the samples in November and December 2012, and January 2013.

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This issue must be resolved. Please contact Ohio EPA with suggested strategies to bring the manganese levels to below 0.05 mg/L. Please find attached a *Manganese-Treated Greensand Trouble-Shooting Guide* for your reference.

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.ohio.gov.

Sincerely,



Kathy Metropulos
Environmental Specialist
Division of Drinking and Ground Waters

KM:ds

enclosure: Manganese-Treated Greensand Trouble-Shooting Guide

pc: Kim Etters, Ohio EPA, DDAGW, NEDO
Geauga County Health Department
Lyn Makeever, Class 1 Operator
Bob Davis, Class A Operator