



Environmental  
Protection Agency

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

April 28, 2011

RE: SHALERSVILLE WTP  
PERMIT NO. 3IY00151  
PORTAGE COUNTY  
SHALERSVILLE

Mr. Lee Benson, Water Manager  
Portage County Water Resources  
449 S. Meridian Street  
P.O. Box 1217  
Ravenna, OH 44266

Dear Mr. Benson:

On April 26, 2011, an inspection of the above referenced facility was conducted. The facility was represented by Mr. Josh Goodridge, Supervisor of Water and you. The purpose of the inspection was to: (1) evaluate the performance of the wastewater treatment system along with the facility's compliance status with respect to the terms and conditions of the above-referenced National Pollutant Discharge Elimination System (NPDES) permit and (2) determine required additional actions to be undertaken as part of the permit renewal process.

During the inspection, the following items were noted/ discussed:

1. The water treatment plant's source of water is from five wells.
2. All five of these wells are in continuous production.
3. The water treatment plant process consists of the following:
  - a. pre-chlorination
  - b. addition of potassium permanganate to bring the iron out of suspension
  - c. eight iron filters
  - d. five water softeners
  - e. water blending - 1/3 softened, 2/3 un-softened, (maintains proper hardness)
  - f. post chlorination
  - g. addition of caustic soda to raise the pH
  - h. addition of fluoride
  - i. addition of poly phosphate for corrosion control
  - j. drinking water sent to distribution system
  - k. back wash water is treated via three slow sand filter beds, (iron filter beds), which remove iron and manganese
  - l. de-chlorination of back wash water with bisulfite
  - m. discharge to Cuyahoga River via an unnamed tributary
4. Mr. Goodridge indicated that filter bed #2 was cleaned out last year.
5. The final effluent was clear.
6. No visual impact to the receiving stream was observed.
7. H Luli, out of Suffield Ohio, is contracted to remove the sludge layer from the slow sand filter beds with an excavator digger.
8. The excavated material is stored on the water treatment plant's property just outside of the plant's perimeter fence. See Figure 1.
9. Storage of this material on the facility's property is not considered to be an acceptable practice. This material is required to be properly disposed at a licensed solid waste landfill.

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10. The plant operators are responsible for collecting the required NPDES permit effluent samples.
11. Both pH and chlorine, residual are tested for on-site.
12. The remaining parameters are analyzed at the Portage County's Operation and Maintenance Facility.
13. You indicated that you are responsible for electronically submitting the required monthly analytical results to Ohio EPA's Surface Water Information Management System, SWIMS.
14. The facility's renewal permit is currently being drafted and will be public noticed in the near future. During public notice you will have a 30 day period to evaluate your permit and comment in writing any concerns you may have.

This office has recently reviewed your self-monitoring reports covering the period July 1, 2006 through March 31, 2011 for the referenced facility. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are as follows:

**Limit Violations**

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	50060	Chlorine, Total Residue	1D Conc	0.019	.1	11/21/2006
001	50060	Chlorine, Total Residue	1D Conc	0.019	.05	11/28/2006
001	50060	Chlorine, Total Residue	1D Conc	0.019	.05	2/13/2007
001	50060	Chlorine, Total Residue	1D Conc	0.019	.07	2/27/2007
001	50060	Chlorine, Total Residue	1D Conc	0.019	.05	5/8/2007
001	50060	Chlorine, Total Residue	1D Conc	0.019	.05	1/30/2008

**No frequency violations have occurred since January 2009.**

Please be advised that such instances of noncompliance may be cause for enforcement actions pursuant to the Ohio Revised Code, Chapter 6111.

Please inform this office in writing, within 21 days receipt of this letter, of your intentions to resolve item 8. The letter should include dates, either actual or proposed, for completion of the actions.

Should you have any comments or questions concerning this letter, please feel free to call me at 330-963-1143.

Respectfully,



Michael W. Stevens  
Environmental Engineer  
Division of Surface Water

MWS:bo



Figure 1