

**Environmental  
Protection Agency**

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

April 21, 2011

RE: GEAUGA COUNTY  
AQUILLA VILLAGE WWTP  
PRE-PERMIT INSPECTION  
OHIO EPA NO. 3PG00100

Geauga County Board of County Commissioners  
470 Center Street, Building #4  
Chardon, OH 44024-1068

Dear Board of County Commissioners:

On April 5, 2011, an NPDES pre-permit inspection was conducted by this writer and Rich Blasick of this office at the Aquilla Village WWTP. Also present during the inspection was Jim Reider of Geauga County's Department of Water Resources.

The 70,000 gpd wastewater treatment system consists of an influent pump station, two aerated lagoons, two overland flow areas, and chlorination/dechlorination. The system discharges into an unnamed tributary of the Cuyahoga River West Branch. At the time of the inspection, two aerators were out of commission. The lagoon liners appeared to be in poor condition, with holes, tears, and vegetation growth through parts of the liner. Overland flow was not taking place at the time of the inspection.

Upon review of your Discharge Monitoring Reports (DMRs) from April 2009 through March 2011, the following effluent violations were noted:

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2009	Nitrogen, Ammonia (NH3)	30D Conc	4.8	6.375	6/1/2009
June 2009	Dissolved Oxygen	1D Conc	5.0	4.95	6/2/2009
June 2009	Dissolved Oxygen	1D Conc	5.0	4.4	6/3/2009
July 2009	Dissolved Oxygen	1D Conc	5.0	4.85	7/10/2009
July 2009	Dissolved Oxygen	1D Conc	5.0	3.56	7/20/2009
July 2009	Dissolved Oxygen	1D Conc	5.0	4.79	7/21/2009
July 2009	Dissolved Oxygen	1D Conc	5.0	3.56	7/25/2009
July 2009	Dissolved Oxygen	1D Conc	5.0	4.2	7/27/2009
August 2009	Total Suspended Solids	30D Conc	12	32.	8/1/2009
August 2009	Total Suspended Solids	7D Conc	18	32.	8/1/2009
December 2009	Nitrogen, Ammonia (NH3)	30D Conc	8.7	9.96	12/1/2009
March 2010	Nitrogen, Ammonia (NH3)	30D Conc	8.7	8.83	3/1/2010
April 2010	Total Suspended Solids	30D Conc	12	21.6666	4/1/2010
April 2010	Total Suspended Solids	7D Conc	18	20.	4/1/2010
April 2010	Total Suspended Solids	7D Conc	18	20.	4/8/2010
April 2010	Total Suspended Solids	7D Conc	18	25.	4/15/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.6	8/17/2010

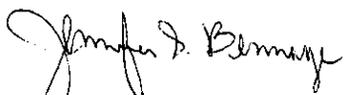
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Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2010	Dissolved Oxygen	1D Conc	5.0	4.	8/18/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.	8/19/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.4	8/20/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.8	8/23/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.	8/24/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.2	8/25/2010
August 2010	Dissolved Oxygen	1D Conc	5.0	4.2	8/26/2010
September 2010	Dissolved Oxygen	1D Conc	5.0	4.2	9/14/2010
September 2010	Dissolved Oxygen	1D Conc	5.0	4.8	9/15/2010
September 2010	Dissolved Oxygen	1D Conc	5.0	4.9	9/17/2010
October 2010	Dissolved Oxygen	1D Conc	5.0	4.8	10/25/2010
November 2010	Total Suspended Solids	30D Conc	12	12.75	11/1/2010
November 2010	Total Suspended Solids	7D Conc	18	31.	11/8/2010
November 2010	Total Suspended Solids	30D Qty	3.18	4.58364	11/1/2010
November 2010	Total Suspended Solids	7D Qty	4.77	4.78424	11/1/2010
November 2010	Total Suspended Solids	7D Qty	4.77	12.9068	11/8/2010
December 2010	Nitrogen, Ammonia (NH3)	30D Qty	2.30	2.302	12/1/2010

Please be advised that such instances of noncompliance are subject to enforcement pursuant to ORC 6111. Because of the numerous dissolved oxygen effluent violations, it is directed that the lagoon aerators be repaired/replaced immediately. It also may be beneficial to install a rock splash pad at the effluent monitoring point.

The Public Notice of the draft renewal NPDES permit will be published in the local newspaper. Once Central Office sends you the draft permit, please read it carefully. Please send any written comments to this office within 30 days from the public notice date. If you have any questions, please contact me at (330) 963-1151.

Sincerely,



Jennifer S. Bennage  
 Environmental Engineer  
 Division of Surface Water

JSB/mt

cc: Jim Reider, Geauga County Dept. of Water Resources  
 Gerard Morgan, Asst. Sanitary Engineer, Geauga Co. Dept. of Water Resources  
 Rich Blasick, Unit Manager, Ohio EPA, NEDO, DSW