



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director



1PB0010820080801

BROWN

SARDINIA WWTP

JACKSON, JOSHUA 2008/08/01

Sardinia
-insp.



State of Ohio Environmental Protection Agency

Southwest District Office

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Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korteski, Director

August 1, 2008

Village of Sardinia
Tim Mock, Village Administrator
151 Maple Ave., P.O. Box 27
Sardinia, OH 45171

**RE: Village of Sardinia WWTW/Reconnaissance Inspection Report
NPDES Permit No. OH0020729 / OEPA PERMIT NO. 1PB00108*FD
Notice of Violation**

Dear Mr. Mock:

On July 23, 2008, I conducted an NPDES Reconnaissance Inspection at the Village of Sardinia wastewater treatment works (WWTW). Stuart Patrick (contract operator) and Bill North (operator) were present during the inspection. The purpose of the inspection was to evaluate compliance with the terms and conditions of the NPDES Permit.

A copy of the Reconnaissance Inspection report is enclosed. As indicated in the report, two evaluated sections received below "Satisfactory" ratings.

Thank you and your staff for the time extended during the inspection process. If you have any questions, please feel free to contact me by phone at (937) 285-6029 or by e-mail at joshua.jackson@epa.state.oh.us.

Respectfully,

Joshua Jackson
Environmental Specialist II
Division of Surface Water

Cc: John Van Harlingen, H2O Company

Enclosures







State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

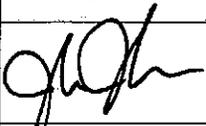
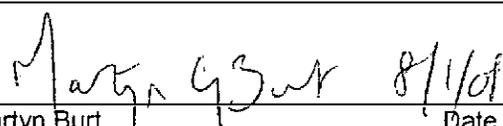
Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PB00108*FD	OH0020729	7/23/2008	R	S	11

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Sardinia WWTW Purdy Road (Behind library) Sardinia, Brown County	9:40 a.m.	8/1/2005
	Exit Time	Permit Expiration Date
	11:00 a.m.	7/31/2010
Name(s) and Title(s) of On-Site Representatives		Phone Number(s)
Jon Van Harlingen, Operator of Record (Stuart Patrick) Bill North, On-site Operator		937-446-2110
Name, Address and Title of Responsible Official		Phone Number
Tim Mock, Village Administrator Village of Sardinia P.O. Box 27 Sardinia, OH 45171		937-446-3807

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	N	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	U	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	M	Self-Monitoring Program
S	Facility Site Review	S	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)

See Attached Report.

Inspector	Reviewer
 Joshua Jackson Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
8-1-08 Date	8/1/08 Date

Inspection Findings

The purpose of the inspection was to follow-up from the compliance inspection performed on January 17, 2008, at the Village's WWTW. At this point construction on the WWTW has not yet been completed due to a shortage of over \$100,000. The Village has submitted a loan application to OWDA and officials are hopeful that this project will be completed by September or October of 2008. For this reason a rating of "Unsatisfactory" was given for the "Compliance Schedule" section of this report. Some of the items not yet completed are:

- Some system components are not connected to the SCADA system controls (UV disinfection system, SBR controls and influent/effluent automatic samplers). Because of this, the UV modules are on all the time instead of only when there is a discharge. The operators must go to a separate building to monitor the SBR control process. Since the samplers are unable to be used, operations staff have utilized a multiple grab method to collect composite samples. The Village's NPDES permit requires the use of a flow-proportioned automatic composite sampler to collect samples for certain parameters, such as CBOD5 and suspended solids. For this reason, a rating of "Marginal" was given for the "Self-Monitoring Program" section of this report.
- Grating for portions of the UV channel
- Laboratory equipment

Effluent Limit Violations

(Period of Review: January 2008 – June 2008)

7D = Weekly 30D = Monthly 1D = Daily
 Conc. = Concentration (mg/l) Qty.= Quantity (Kg/Day)

Reporting Period	Parameter	Limit.Type	Limit	Reported Value
January 2008	Total Suspended Solids	30D Conc	12	37.3
January 2008	Total Suspended Solids	30D Qty	14	14.9168
January 2008	Total Suspended Solids	7D Conc	18	112.75
January 2008	Total Suspended Solids	7D Qty	20	56.2138
January 2008	Total Suspended Solids	7D Conc	18	66.5
February 2008	Total Suspended Solids	30D Conc	12	20.625
February 2008	Total Suspended Solids	7D Conc	18	23.5
February 2008	Total Suspended Solids	30D Qty	14	25.7394
February 2008	Total Suspended Solids	7D Qty	20	38.9552
February 2008	Total Suspended Solids	7D Conc	18	52
February 2008	Total Suspended Solids	7D Qty	20	53.9286
May 2008	Nitrogen, Ammonia (NH3	7D Conc	1.3	1.63
June 2008	Nitrogen, Ammonia (NH3	30D Conc	0.89	1.2

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June 2008	Nitrogen, Ammonia (NH3)	7D Conc	1.3	4.005
June 2008	Nitrogen, Ammonia (NH3)	30D Qty	1.0	1.76945
June 2008	Nitrogen, Ammonia (NH3)	7D Qty	1.5	6.65055

Items noted during the inspection:

1. The effluent meter was out of service. Operations staff are utilizing the influent meter/Parshall flume for flow monitoring until the effluent flow meter is replaced.
2. It appears that some effluent violations have been attributed to the SBRs difficulty in treating to NPDES permit levels during the "Storm Mode". At the time of the inspection, influent flows were only around 30,000 gallons/day (average daily design flow of 0.3 MGD), but according to operations staff, flows can reach 1 MGD during an intense storm event. As noted in the previous inspection, the Village should make inflow & infiltration removal a priority in order to protect the Village's investment (WWTW) and prevent the need for wastewater storage to offset high flow events (equalization tank).

