



**Environmental
Protection Agency**

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

Re: Wood County
Williamsburg on the River WWTP
Custar WWTP
Cygnet WWTP
NPDES Permit

June 6, 2012

Mr. Jerry Greiner, Executive Director
Northwestern Water and Sewer District
12560 Middleton Pike
P.O. Box 348
Bowling Green, Ohio 43402

Dear Mr. Greiner:

On April 5, 2012, I conducted a compliance inspection of four wastewater treatment plants (WWTPs) that are operated by the Northwestern Water and Sewer District (NWWSD). These WWTPs serve the Villages of Custar and Milton Center, Cygnet, and the Williamsburg Subdivision. Mr. Bill Wachter, Ms. Michelle Gilford, Mr. Simon Gundy, and Mr. Tim Wilkens were present at these inspections and answered any questions asked. A summary of each of the inspections follow:

Williamsburg on the River: The WWTP that serves Williamsburg on the River is a new 50,000 gallon per day package treatment plant with ultraviolet disinfection that was installed in 2009 and began operation in November 2009. At the time of the inspection, all major treatment components were in operation. The flow meter for this plant was recently rebuilt but still needed to be recalibrated. At the time of the inspection, the raw pumps were being used to report flow data.

The required sign at the effluent was down at the time of the inspection but was reinstalled later that same day. The operator log for the WWTP was available for viewing and was up to date. However, the notebook being used for the log was spiral bound. A hard bound notebook should be used.

The National Pollutant Discharge Elimination System (NPDES) permit for this WWTP has been issued draft. Comments made by Mr. Dan Wickard concerning this permit have been addressed and include changing monitoring dates to coincide with monitoring requirements of other NPDES permits held by NWWSD.

Mr. Jerry Greiner
June 6, 2012
Page Two

Custar: The Custar WWTP is a three cell controlled discharge lagoon system. The WWTP was not discharging at the time of the inspection. An operator log was not available during the inspection. Operator logs are to be present at the WWTP at all times. The three cells were about one-half full and all were green with algae. There were few violations of the NPDES permit reported for this WWTP.

Cygnet: The Cygnet WWTP is a three cell controlled discharge lagoon system. The WWTP was not discharging at the time of the inspection. The cells had been emptied in March. An operator log was not available during the inspection. Operator logs are to be present at the WWTP at all times. The three cells were about one-half full and all were green with algae.

A list of violations of the NPDES permit for each of the WWTPs is enclosed.

If you have any questions, please contact me at (419) 373-3016.

Sincerely,



Patricia A. Tebbe, P.E.
Division of Surface Water

/jlm

Enclosures

pc: Dan Wickard, NWWSD
Bill Wachter, NWWSD

ec: Inspection Tracking

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
<u>2PA00090</u>	<u>OH0135503</u>	<u>12/04/05</u>	<u>C</u>	<u>S</u>	<u>1</u>

Section B: Facility Data

Name and Location of Facility Inspected Custer WWTP SR 281 @ Jackson Cutoff Custer, OH	Entry Time	Permit Effective Date
	9:35 am	April 2, 2010
	Exit Time	Permit Expiration Date
		April 30, 2015

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Bill Wachter, Michelle Gilford, Simon Gundy, Tim Wilkins, NWWSD	419-354-9090

Name, Address and Title of Responsible Official	Phone Number
Jerry Greiner/Executive Director, NWWSD	419-354-9090

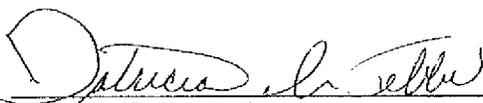
Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Pretreatment
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Compliance Schedules
<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Self-Monitoring Program
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Sludge Storage/Disposal	<input type="checkbox"/> Other
<input type="checkbox"/> Collection System		

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

No operator log available
 WWTP not discharging at time of inspection
 Only violation - one pH exceedance in June, 2010


 Patricia A. Tobbe, P.E.

6/5/12, Ohio EPA Northwest District Office
 Date


 Thomas Poffenbarger, P.E.

6/5/12, Ohio EPA Northwest District Office
 Date

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings		
	Potable Water Supply Protection		
	Safety Features	S	fenced
	Bypasses		
	Stormwater Overflows		
	Alternate Power Source		
Preliminary	Maintenance of Collection Systems	S	2 lift stations, both on auto dialer
	Pump Station		
	Ventilation		
	Bar Screen		
	Disposal of Screenings		
	Comminutor		
	Grit Chamber		
	Disposal of Grit		
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters		
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds		
	Vacuum Filter		
	Disposal of Sludge		
Other	Flow Meter and Recorder	M	Estimated by flow in pipe
	Records		
	Lab Controls		
	Chemical Treatment		
Secondary-Tertiary List items as required	lagoon one	In	½ full, green
	lagoon two	In	½ full, green
	lagoon three	In	½ full, green
Disinfection	Effluent	Out	
	Disinfection System		
	Effective Dosage		
	Contact Time		
	Contact Tank		
	Dechlorination		

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
<u>2PA00000</u>	<u>OH0029327</u>	<u>12/04/05</u>	<u>C</u>	<u>S</u>	<u>1</u>

Section B: Facility Data

Name and Location of Facility Inspected Cygnet WWTP N. Washington St. Cygnet, OH	Entry Time	Permit Effective Date
	10:30 am	May 1, 2008
	Exit Time	Permit Expiration Date
		April 30, 2013

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Bill Wachter, Michelle Gilford, Simon Gundy, Tim Wilkins, NWWSD	419-354-9090

Name, Address and Title of Responsible Official	Phone Number
Jerry Greiner/Executive Director, NWWSD	419-354-9090

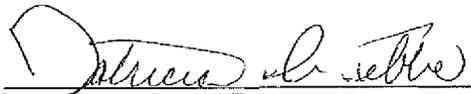
Section C: Areas Evaluated During Inspection

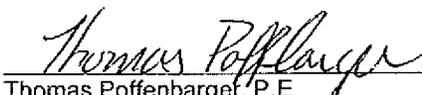
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Pretreatment
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Compliance Schedules
<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Self-Monitoring Program
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Sludge Storage/Disposal	<input type="checkbox"/> Other
<input type="checkbox"/> Collection System		

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

No operator log available
 WWTP not discharging at time of inspection


 Patricia A. Tebbe, P.E. 6/5/12
Date Ohio EPA Northwest District Office


 Thomas Poffenbarger, P.E. 6/5/12
Date Ohio EPA Northwest District Office

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings		
	Potable Water Supply Protection		
	Safety Features	S	fenced
	Bypasses		
	Stormwater Overflows		
	Alternate Power Source		
Preliminary	Maintenance of Collection Systems	S	
	Pump Station		
	Ventilation		
	Bar Screen		
	Disposal of Screenings		
	Comminutor		
	Grit Chamber		
	Disposal of Grit		
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters		
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds		
	Vacuum Filter		
	Disposal of Sludge		
Other	Flow Meter and Recorder	M	Estimated
	Records		
	Lab Controls		
	Chemical Treatment		
Secondary-Tertiary List items as required	lagoon one	In	½ full, green
	lagoon two	In	½ full, green
	lagoon three	In	½ full, green; rip rap on the north and west banks of pond
Disinfection	Effluent	Out	Emptied in march
	Disinfection System		
	Effective Dosage		
	Contact Time		
	Contact Tank		
	Dechlorination		

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
<u>2PG00097</u>	<u>OH0029491</u>	<u>10/01/20</u>	<u>C</u>	<u>S</u>	<u>1</u>

Section B: Facility Data

Name and Location of Facility Inspected Williamsburg on the River WWTP 19010 Brillhart Rd Bowling Green, OH	Entry Time	Permit Effective Date
	Exit Time	Permit Expiration Date
		July 1, 2007
		June 30, 2012

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Bill Wachter, Michelle Gilford, Simon Gundy, Tim Wilkins, NWWSD	419-354-9090

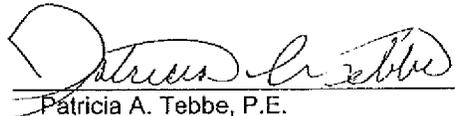
Name, Address and Title of Responsible Official	Phone Number
Jerry Greiner, Executive Director\	419-354-9090

Section C: Areas Evaluated During Inspection
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Pretreatment
<input type="checkbox"/> Records/Reports	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Compliance Schedules
<input checked="" type="checkbox"/> Operations & Maintenance	<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Self-Monitoring Program
<input checked="" type="checkbox"/> Facility Site Review	<input checked="" type="checkbox"/> Sludge Storage/Disposal	<input type="checkbox"/> Other
<input type="checkbox"/> Collection System		

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

New WWTP
 Draft NPDES Permit issued
 WWTP provides treatment for Otsego Facility Planning Area


 Patricia A. Tebbe, P.E. 6/5/12, Ohio EPA, Northwest District Office
 Date


 Thomas Poffenbarger, P.E. 6/6/12, Ohio EPA, Northwest District Office
 Date

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection		
	Safety Features	S	Fence locked, grates on all tanks
	Bypasses		
	Stormwater Overflows		
	Alternate Power Source	S	Generator provided – exercise once per week
Preliminary	Maintenance of Collection Systems		
	Pump Station	S	Located at site of old treatment plant
	Ventilation		
	Bar Screen		
	Disposal of Screenings		
	Comminutor		
	Grit Chamber		
	Disposal of Grit		
	Trash Trap	In	Aerated; grates recently replaced
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent		
	EQ Tanks	In	3 tanks; aerated
Sludge Disposal	Digesters		
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds		
	Vacuum Filter		
	Disposal of Sludge		
Holding Tanks	S	Two tanks, aeration off during decanting to head of EQ basin	
Other	Flow Meter and Recorder	Out	Flow meter rebuilt and needs recalibration; currently using raw pump readings
	Records	M	Spiral bound operator log book used; notes up to date
	Lab Controls		
	Chemical Treatment		
Secondary-Tertiary List items as required	Aeration	In	Good color and roll, 2 sets of 3 tanks each
	Clarifiers	In	Two settling tanks and two upward flow mixed media clarifiers
	Surface Sand Filters	In	Two, south sand filter in
	Post aeration	In	
Disinfection	Effluent		
	Disinfection System	Out	UV
	Effective Dosage		
	Contact Time		
	Contact Tank		
	Dechlorination		

Custer:

DATE	PARAMETER	REPORTED	LIMIT
Violations:			
6/3/2010	pH	9.7	9.0
3/23/2011	pH	9.4	9.0
3/2011 average	CBOD5	29 mg/l	25.0 mg/l

Cygnet:

Violations:			
9/22/2008	pH	9.1	9.0
4/2009 average	suspended solids	106 mg/l	65.0 mg/l
4/22/2009 week 4	suspended solids	106 mg/l	90.0 mg/l
3/2010 average	suspended solids	73 mg/l	65.0 mg/l
3/22/2010	pH	9.3	9.0
4/2011 average	suspended solids	86 mg/l	65.0 mg/l
4/2011 average	CBOD5	36 mg/l	25.0 mg/l
4/22/2011	pH	9.3	9.0
8/9/2011	pH	9.3	9.0

Williamsburg on the River:

Violations:			
4/2010 average	suspended solids	19.7 mg/l	12.0 mg/l
4/8/2010 week 2	suspended solids	46.5 mg/l	18.0 mg/l
4/8/2010 week 2	suspended solids	4.0 kg/day	3.4 kg/day
4/15/2010 week 3	suspended solids	20.0 mg/l	18.0 mg/l
5/2010 average	suspended solids	3.3 kg/day	2.3kg/day
5/8/2010 week 2	suspended solids	5.2 kg/day	3.4 kg/day
5/15/2010 week 3	suspended solids	4.5 kg/day	3.4 kg/day
6/15/2010 week 3	suspended solids	24.0 mg/l	18.0 mg/l
10/2010 average	suspended solids	14.2 mg/l	12.0 mg/l
10/15/2010 week 3	suspended solids	27.0 mg/l	18.0 mg/l
11/2010 average	suspended solids	12.5 mg/l	12.0 mg/l
11/8/2010 week 2	suspended solids	24.0 mg/l	18.0 mg/l
12/2010 average	ammonia	0.75 kg/day	0.58kg/day
12/2010 average	ammonia	6.1 mg/l	3.0 mg/l
12/8/2010 week 1	ammonia	12.0 mg/l	4.5 mg/l
12/1/2010 week 1	ammonia	1.5 kg/day	0.8kg/day
4/22/2010 week 4	suspended solids	5.9 kg/day	3.4 kg/day
5/1/2010 week 1	suspended solids	4.7 kg/day	3.4 kg/day
1/2012 average	ammonia	3.9 mg/l	3.0 mg/l
1/15/2012 week 3	ammonia	7.6 mg/l	4.5 mg/l