



Environmental
Protection Agency

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

Re: Defiance County
Beldens' Subdivision WWTP
NPDES Permit

June 8, 2011

Mr. Greg Reinhart
Defiance County Wastewater Operations
500 Second Street
Defiance, Ohio 43512

Dear Mr. Reinhart:

On May 5, 2011, an inspection was made of Belden's Subdivision wastewater treatment facilities located in Defiance County. You were present and provided information concerning the operation and maintenance of these facilities. Our observations and recommendations are as follows.

The average flow for this facility is approximately 3-4,000 gallons per day. The original design for the facility was 15,000 gpd. The pump counter on the raw wastewater pump is used to calculate the facility flow. The effluent was odorless and clear.

You are in violation of Ohio Administrative Code(OAC) 3745-7-9(A), which requires that a log book is kept at the facility, which documents the time spent by the operator of record at the facility and the operation and maintenance activities at the facility. No log book was available for this facility.

This facility will be replaced by the new Auglaize River Lagoon, which has been constructed, although the sewer collection system is currently being constructed. Once the sewer line is completed and all residents are tied into this sewer, the plant will be razed. Before abandoning the facility the package plant should have all solids removed and disposed of at a permitted wastewater treatment facility. Receipts documenting this activity should be copied and submitted to our office. After all salvage of mechanical parts and metal has taken place the package plant should be crushed in and brought to grade.

Since this facility is schedule to be demolished, the building housing this facility has not been maintained and there are some structural issues that would need to be addressed if the plant were to continue to serve this sewershed.

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Once an inspection is conducted by our office to verify the facility has been properly closed, we will revoke your NPDES permit since you will no longer have a wastewater treatment plant.

All major plant components were in operation at the time of this inspection. The inspection report is attached. If you have any questions, please contact me at (419) 373-3067.

Sincerely,


Dana Martin-Hayden
Division of Surface Water

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pc: DSW, NWDO File 3

OHIO ENVIRONMENTAL PROTECTION AGENCY
OPERATION AND MAINTENANCE INSPECTION
WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PG00050

Facility Name Belden's Subdivision Expiration Date 8/31/11
 Facility Address State Route 111 Date 5/5/11 Time 12:18 am/pm (pm)
 City Defiance County Defiance Township Defiance
 Name and Address of Owner Defiance County Commissioners
 Person Contacted Greg Reinhart Owner Phone 419-782-2230
 Flow: Design 15,000 GPD Present 3-4,000 GPD (metered (estimated))
 Trib. Pop. 31 homes 78 (actual - estimated) Weather at time of inspection: Temp 60° Sunny
 OEPA Personnel Dana Martin-Hayden District NWDO

1. Plant Effluent - Mark Severity No.

| No. | Severity Description | No. | Turbidity | No. | Odor | No. | Color |
|-----|----------------------|-------------------------------------|--------------|-------------------------------------|--------|-------------------------------------|-----------|
| 0 | None | <input checked="" type="checkbox"/> | Clear | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Colorless |
| 1 | Mild | | | | | | |
| 2 | Moderate | | Light Solids | | Musty | | Grey |
| 3 | Serious | | | | | | |
| 4 | Extreme | | Heavy Solids | | Septic | | Black |

2. Effect of effluent on Receiving Stream Name: Auglaize River - observed in MH

| No. | Severity Description | No. | Turbidity | No. | Odor | No. | Color |
|-----|----------------------|-------------------------------------|--------------|-------------------------------------|--------|-------------------------------------|-----------|
| 0 | None | <input checked="" type="checkbox"/> | Clear | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Colorless |
| 1 | Mild | | | | | | |
| 2 | Moderate | | Light Solids | | Musty | | Grey |
| 3 | Serious | | | | | | |
| 4 | Extreme | | Heavy Solids | | Septic | | Black |

River to High

3. a. Plant has _____ excellent good _____ fair _____ poor operation
 b. Plant has _____ excellent good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent _____ good _____ fair _____ poor maintenance

d. Not operating at expected efficiency due to:

- (1) _____ hydraulic overload
 (2) _____ organic/ solids overload
 (3) _____ personnel inefficiency
 (4) _____ equipment failure
 (5) _____ wastes
 (6) _____

| | |
|---|-------------------------------------|
| Disinfection: (Required May 1 thru Oct.31.) | |
| IN | OUT |
| _____ | <input checked="" type="checkbox"/> |
| _____ | _____ |
| _____ | _____ |
| | Chlorination Tablets |
| | Dechlorination Tablets |
| | U.V. |

- Yes No
 4. _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____
 Chronic Violations _____ N _____

5. _____ Adequate plant safety

6. _____ Operation and Maintenance Service

Name Defiance County WW operations
 Frequency of Visits Daily

Facility Name: Beldens Subdivision

| Process | # Units | Unit | If Needed - Description and Comments |
|---------------------|-------------------------------------|--|---|
| Preliminary | 1 | Trash Trap | Pumping Frequency: |
| | | Grease Trap | Pumping Frequency: |
| | | Bar Screen | |
| | | Comminutor | |
| | | Flow Equalization | |
| Aeration Equipment | 1 | Plant Timer <u>Y</u> <input checked="" type="checkbox"/> N | Cycle Time: <u>appears sufficient</u> |
| | | Motor/ Blower Unit | <u>continuous</u> |
| Secondary Treatment | 2 | Aeration Tank | Color: <u>Dark Brown Rolling</u> Adequate Aeration: <u>Y</u> <input checked="" type="checkbox"/> N |
| Final Settling | | Clarifier | <u>Some scum</u> |
| | 2 | Sludge Return | In <input checked="" type="checkbox"/> Out <u>brown good flow</u> |
| | 1 | Surface Skimmer | In <input checked="" type="checkbox"/> Out |
| | | Fixed Media Clarifier | |
| Tertiary Treatment | | Surface Sand Filter | |
| | | Polishing Pond | |
| | | Other | |
| Disinfection | 1 | Chlorine Tube Feeder | |
| | | Dechlorination Tube Feeder | |
| | | Ultraviolet (UV) | |
| Flow Metering | <input checked="" type="checkbox"/> | Elapsed Pump Time | |
| | | Recorder (continuous total) | |
| Pumps | 2 | Raw Wastewater (type) | |
| | | Sand Filter Effluent Dosing | |
| Sludge Handling | | Aerated Storage Tank | |
| | | Sludge Drying Bed | |
| Sludge Disposal | <input checked="" type="checkbox"/> | Municipal POTW | <u>City of Defiance</u> |
| | | Landfill | |
| | | Land Application | |
| Advanced Treatment | | Post Aeration | |
| | | Spray Irrigation | |
| | | Other | |