



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

Re: Hancock County  
Cory Rawson Schools STP  
NPDES Permit 2PT00031

December 7, 2012

Mr. Brad Cox, Superintendent  
Cory-Rawson Local Schools  
3930 County Road 26  
Rawson, Ohio 45881

Dear Mr. Cox:

On November 20, 2012, Ms. Michelle Sharp and I conducted an inspection of the wastewater treatment facilities serving Cory-Rawson High School. Mr. Wayne Young, who holds a Class I Operator License, provided a tour of the facility and answered questions about the operation. Overall, both operation and maintenance appeared good. All major treatment components were in operation, and a clear effluent was observed.

A review of the discharge monitoring reports submitted to our office for the time period from November 2011 to November 2012 revealed several **violations** of the limits contained in your National Pollutant Discharge Elimination System (NPDES) permit. A printout of these **violations** is enclosed for your review.

These violations, combined with the addition of the new school, suggest that several upgrades to the plant are necessary.

1. The sand filters were clean, but Mr. Young noted that the sand was original to the plant. It is recommended that sand in the sand filters be replaced.
2. We also recommend that you explore the possibility of using UV disinfection instead of chlorine tablets. UV disinfection would be more reliable and would eliminate the need for dechlorination. UV disinfection may be more economical considering the increased flow to the wastewater treatment plant (WWTP). If you decide to change to UV disinfection, we would require a Permit-to-Install (PTI) application prior to installation.

A copy of our completed inspection report is enclosed for your review. If you have any questions, please contact Michelle Sharp at 419-373-3019.

Sincerely,

Peggy B. Christie  
Division of Surface Water

/jlm

Enclosures

pc: Hancock County Health Department  
Mr. Wayne Young, Cory-Rawson Local School  
Mr. Mark Willeke, High School Principal, Cory-Rawson Local Schools  
ec: Inspection Tracking

**Limit Violations for Cory Rawson H.S. 11/1/11 through 11/1/12**

| Violation Date | Station | Reporting Code | Parameter              | Limit Type | Limit | Reported Value |
|----------------|---------|----------------|------------------------|------------|-------|----------------|
| 7/1/2012       | 001     | 00610          | Nitrogen, Ammonia (NH3 | 30D Conc   | 1.0   | 18.42          |
| 7/1/2012       | 001     | 00610          | Nitrogen, Ammonia (NH3 | 30D Qty    | 0.05  | .1255          |
| 7/22/2012      | 001     | 00610          | Nitrogen, Ammonia (NH3 | 7D Conc    | 1.5   | 18.42          |
| 7/22/2012      | 001     | 00610          | Nitrogen, Ammonia (NH3 | 7D Qty     | 0.07  | .1255          |
| 10/1/2012      | 001     | 31648          | E. coli                | 30D Conc   | 161   | 187.317        |

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

NPDES Permit No. 2PT00031  
 Facility Name Cory Rawson H.S. & M.S. Expiration Date Feb 28, 2017  
 Facility Address 3930 County Rd. 26 Date 11/20/12 Time 9:06 (am/pm)  
 City Rawson County Hancock Township \_\_\_\_\_  
 Name and Address of Owner \_\_\_\_\_  
 Person Contacted Wayne Young Owner Phone \_\_\_\_\_  
 Flow, Design 12,500 GPD Present 3700 GPD (metered/estimated)  
 Trib. Pop. \_\_\_\_\_ (actual - estimated) Weather at time of inspection: Temp 50° cloudy  
 OEPA Personnel Peggy Christie, Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

| No. | Severity Description | No. | Turbidity    | No. | Odor   | No. | Color     |
|-----|----------------------|-----|--------------|-----|--------|-----|-----------|
| 0   | None                 | X   | Clear        | X   | None   | X   | 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: not observed

| No. | Severity Description | No. | Turbidity    | No. | Odor   | No. | Color     |
|-----|----------------------|-----|--------------|-----|--------|-----|-----------|
| 0   | None                 |     | Clear        |     | None   |     | Colorless |
| 1   | Mild                 |     |              |     |        |     |           |
| 2   | Moderate             |     | Light Solids |     | Musty  |     | Grey      |
| 3   | Serious              |     |              |     |        |     |           |
| 4   | Extreme              |     | Heavy Solids |     | Septic |     | Black     |

3. a. Plant has \_\_\_\_\_ excellent X good \_\_\_\_\_ fair \_\_\_\_\_ poor operation  
 b. Plant has \_\_\_\_\_ excellent X good \_\_\_\_\_ fair \_\_\_\_\_ poor maintenance  
 c. Sand filters have \_\_\_\_\_ excellent X 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      |                        |
| _____  | <u>X</u> | Chlorination Tablets   |
| _____  | <u>X</u> | Dechlorination Tablets |
| _____  | _____    | U.V.                   |

} NOV  
} NTA

- Yes No  
 4. X \_\_\_\_\_ Compliance with NPDES Permit  
 Periodic Violations Y \_\_\_\_\_ N Parameters: Ammonia, E. Coli  
 Chronic Violations \_\_\_\_\_  
 5. X \_\_\_\_\_ Adequate plant safety  
 6. \_\_\_\_\_ X Operation and Maintenance Service Name \_\_\_\_\_  
 Frequency of Visits \_\_\_\_\_

Facility Name: Cory Rawson

| Process             | # Units | Unit                                   | If Needed - Description and Comments                             |
|---------------------|---------|--|--|
| Preliminary         | X       | Trash Trap                             | Pumping Frequency: 1/Year - to Fundlay                           |
|                     |         | Grease Trap                            | Pumping Frequency:   |
|                     |         | Bar Screen                             |  |
|                     |         | Comminutor                             |  |
|                     |         | Flow Equalization                      |  |
| Aeration Equipment  | X       | Plant Timer <u>X</u> <u>Y</u> <u>N</u> | Cycle Time: 2 blowers - alternate                                |
|                     | 2       | Motor/ Blower Unit                     | 12 hrs on / 12 hrs off - one always on.                          |
| Secondary Treatment | X       | Aeration Tank                          | Color: light chocolate<br>Adequate Aeration: Y <u>X</u> <u>N</u> |
| Final Settling      | X       | Clarifier                              | some solids<br>weir/effluent clean                               |
|                     | 2       | Sludge Return                          | In <input checked="" type="checkbox"/> Out                       |
|                     | X       | Surface Skimmer                        | In <input checked="" type="checkbox"/> Out                       |
|                     |         | Fixed Media Clarifier                  |  |
| Tertiary Treatment  | 2       | Surface Sand Filter                    | Clean and raked.   |
|                     |         | Polishing Pond                         |  |
|                     |         | Other                                  |  |
| Disinfection        | 1       | Contact Tank                           |  |
|                     |         | Chlorine Tube Feeder                   | NOV emblem   |
|                     |         | Dechlorination Tube Feeder             | N/A  |
|                     |         | Ultraviolet (UV)                       |  |
| Flow Metering       |         | Elapsed Pump Time                      | Water meter at school  |
|                     |         | Recorder (continuous total)            | used to estimate flow.   |
| Pumps               |         | Raw Wastewater (type)                  |  |
|                     |         | Sand Filter Effluent Dosing            |  |
| Sludge Handling     | X       | Aerated Storage Tank                   |  |
|                     | X       | Sludge Drying Bed                      |  |
| Sludge Disposal     | X       | Municipal POTW                         | Fundlay  |
|                     | X       | Landfill                               | Wyandot County 2 times/year                                      |
|                     | X       | Land Application                       |  |
| Advanced Treatment  |         | Post Aeration                          |  |
|                     |         | Spray Irrigation                       |  |
|                     |         | Other                                  |  |