



State of Ohio Environmental Protection Agency

Southeast District Office

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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

May 30, 2008

Re: Ross County
Ross Correctional Institution
Compliance Evaluation Inspection (CEI)
Ohio EPA Permit No. 0PP00050*CD
Correspondence (PWW)

Mr. Michael Sheets, Warden
Ross Correctional Institute
16149 State Route 104 North
Chillicothe, Ohio 45601

Dear Mr. Sheets:

On May 21, 2008, I met with Keith O'Dell and inspected the prison system's wastewater treatment plant. The purpose of the inspection was to determine your facility's compliance with the terms and conditions of its NPDES permit. Based on the findings of the inspection and the review of our records, I have the following comments:

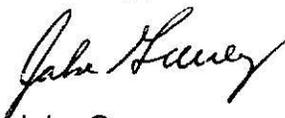
1. At the time of my inspection two primary and two secondary clarifiers were down for their annual cleaning and inspections. The one aeration basin was also off line as repairs were being made to reinforce the baffle walls and inspect the diffuser headers. Current average daily flows are near 2.0 MGD with the design flow of the plant being 4.4 MGD making it possible to take half off the plant off line for an extended period for routine cleaning and maintenance.
2. During my inspection the UV disinfection system was operable providing the required disinfection which began on May 1st and runs through October 31.
3. The two sludge digesters were in operation at the time of my inspection and have been repaired with new stainless steel blower lines and diffuser headers. Inspection of the one digester showed the sludge to be well mixed and free of any noticeable odor.
4. A PTI was received on May 22, 2008 and is currently under review for a sanitary sewer extension to intercept the former Outfall 002 waste stream and pump into an adjacent sanitary sewer manhole. The elimination of this discharge will prevent future effluent limit violations at this outfall which have occurred for several months.
5. Upon review of the laboratory it was found that a manual containing Standard Operating Procedures (SOPs) for the in house analytical procedures was not readily available. Also due to the lack of a full time laboratory technician a

QA/QC manual has not been produced although the laboratory does conduct an internal QC by splitting samples with the City of Chillicothe laboratory semi-annually and participates in the DMRQA. Inspection of the laboratory also documented the absence of a calibration/maintenance logbook for each water quality instrument used for either field measurements or bench scale tests. A separate bound calibration logbook should be provided for each instrument to maintain daily calibration records as well as any maintenance. Please take the necessary actions to begin addressing the above laboratory deficiencies and provide a schedule within **30** days upon receipt describing how the lab will be properly staffed. A letter was received on August 23, 2006 stating that approval was granted to create and fill a full time laboratory position to meet the requirements of your O&M manual.

Following my inspection, I reviewed the draft NPDES renewal permit with your operator. I reminded Mr. O'Dell that there is a thirty day public comment period at which time the permittee can make comments on the draft permit or request changes. Following our discussion of the new permit there were no questions or concerns. Pending any changes the renewal permit will likely be issued with an effective date of July 1, 2008.

Inspection of the treatment plant showed all components to be in good operating condition and providing effective treatment. The effluent was clear and free of any suspended solids or objectionable odors. Attached for your review is a copy of my detailed inspection report. If you have any questions, please contact me at (740) 380-5416.

Sincerely,



Jake Greuey
District Site Representative
Division of Surface Water

JGG/dh

Enclosure

- c: Keith O'Dell, Treatment Plant Manager
- c: Ron Chaney, Regional Project Mgr., Ohio Department of Rehab & Corrections

**NPDES
Compliance Inspection Report**

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
0PP00050*CD	OH0076490	May 21, 2008	C	S	1

B. FACILITY DATA

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Ross Correctional Institution WWTP 15802 State Route 104 Chillicothe, Ohio 45601	1:00 p.m.	December 1, 2002
	Exit Time	Permit Expiration Date
	2:10 p.m.	November 30, 2007

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Keith O'Dell, Plant Operator	(740) 773-1671
Name, Address and Title of Responsible Official	Phone Number
Mr. Michael Sheets, Warden Ross Correctional Institute 16149 State Route 104 North Chillicothe, Ohio 45601	

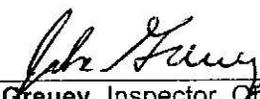
C. AREAS EVALUATED DURING INSPECTION

<u>S</u> Permit	<u>S</u> Flow Measurement	<u> </u> Pretreatment
<u>S</u> Records/Reports	<u>M</u> Laboratory	<u>S</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluent/Receiving Waters	<u>S</u> Self-Monitoring Program
<u>S</u> Facility Site Review	<u>S</u> Sludge Storage/Disposal	<u> </u> Other
<u>S</u> Collection System		

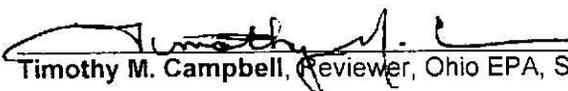
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

D. SUMMARY OF FINDINGS/COMMENTS (attach additional sheets if necessary)

See attached letter.


 Jake Greuey, Inspector, Ohio EPA, Southeast District Office

5/30/08
 Date


 Timothy M. Campbell, Reviewer, Ohio EPA, Southeast District Office

5/30/08
 Date

E. PERMIT VERIFICATION

Inspection Observations Verify the Permit	Yes	No	N/A	N/E
a. Correct name and mailing address of permittee	X			
b. Correct name and location of receiving waters	X			
c. Product(s) and production rates conform with permit application (industries)			X	
d. Flows and loadings conform with NPDES permit	X			
e. Treatment processes are as described in permit application/briefing memo	X			
f. New treatment process(es) added since last inspection		X		
g. Notification given to state of new, different, or increased discharges			X	
h. All discharges are permitted	X			
i. Number and location of discharge points are as described in permit	X			

Comments:

F. COMPLIANCE SCHEDULES/VIOLATIONS

	Yes	No	N/A	N/E
a. Any significant violations since the last inspection *	X			
b. Permittee is taking actions to resolve violations	X			
c. Permittee has compliance schedule	X			
d. Compliance schedule contained in <u>NPDES OPP00050*CD</u>	X			
e. Permittee is meeting compliance schedule	X			

Comments: * Monthly violations have been reported for the past several months at Outfall 602 which is being eliminated by connecting to the sanitary sewer system. PTI was submitted on May 19, 2008.

G. OPERATION AND MAINTENANCE

Treatment Facility Properly Operated and Maintained	Yes	No	N/A	N/E
a. Standby power available: Generator <u>X</u> Dual Feed	X			
b. Adequate alarm system available for power or equipment failures	X			
c. All treatment units in service other than backup units	X			
d. Sufficient operating staff provided: # of shifts <u>1</u> Days/Week <u>7*</u>		X		
e. Operator holds unexpired license of class required by permit Class: <u>IV</u>	X			
f. Routine and preventive maintenance schedule/performed on time	X			
g. Any major equipment breakdown since last inspection		X		
h. Operation and maintenance manual provided and maintained	X			
i. Any plant bypasses since last inspection		X		
j. Regulatory agency notified of bypasses _____ on MORS _____ 800 Number			X	
k. Any hydraulic and/or organic overloads experienced since last inspection		X		

Comments: *Three operators and one part time lab technician. Facility needs a full time lab technician to conduct laboratory analysis and develop laboratory QA/QC program.

Collection System	Yes	No	N/A	N/E
a. Percent combined system: <u>0</u> %		X		
b. Any collection system overflows since last inspection (CSO ___ SSO ___)		X		
c. Regulatory agency notified of overflow (SSOs)			X	
d. CSO O and M plan provided and implemented			X	
e. CSOs monitored and reported in accordance with permit			X	
f. Portable pumps used to relieve system			X	
g. Lift station alarm systems provided and maintained	X			
h. Are lift stations equipped with permanent standby power or equivalent	X			
i. Is there an inflow/infiltration problem (separate sewer system), or were there any major repairs to collection system since last inspection		X		
j. Any complaints received since last inspection of basement flooding			X	
k. Are any portions of the sewer system at or near capacity		X		

Comments:

H. SLUDGE MANAGEMENT

- a. Sludge Management Plan (SMP): April 1990 Submitted Date
 _____ Approval Number
 _____ Not submitted
 _____ N/A

	Yes	No	N/A	N/E
b. Sludge Management Plan current				X
c. Sludge adequately disposed (Method: <u>Land application on own property</u>)	X			
d. If sludge is incinerated, where is ash disposed of?			X	
e. Is sludge disposal contracted (Name: _____)		X		
f. Has amount of sludge generated changed significantly since last inspection		X		
g. Adequate sludge storage provided at plant	X			
h. Land application sites monitored and inspected per SMP	X			
i. Records kept in accordance with state and federal law				X
j. Any complaints received in last year regarding sludge		X		
k. Is sludge adequately processed (digestion, dewatering, pathogen control)	X			

Comments:

