



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Rd.
Bowling Green, OH 43402-9398

TELEPHONE (419) 352-8468
WWW.OHIOEPA.ORG

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

Re: Lucas County
Maumee River WWTP
NPDES Permit

December 4, 2009

Mr. James P. Shaw III, P.E.
Lucas County Sanitary Engineer
1111 S. McCord Road
Holland, Ohio 43528

Dear Mr. Shaw:

On November 5, 2009, Naajy Abdullah conducted an NPDES compliance inspection of the Maumee River Wastewater Treatment Plant (WWTP). Mr. Michael Cravens provided information about the plant operations and maintenance.

During the inspection, all major plant units were operating and the sludge storage pads were empty. The plant effluent appeared clear.

The new sludge dewatering system (centrifuge) was being assembled and appeared close to initial operation to replace the current filter press. Mr. Cravens indicated that the filter press will be maintained in place as a backup.

Our completed inspection report form is enclosed for your information. If you have any questions, please contact Naajy Abdullah at (419) 373-3017.

Yours truly,

Elizabeth A. Wick, P.E.
District Engineer/Unit Supervisor
/llr

Enclosure

Pc: Michael Cravens, WWTP Manager
DSW-NWDO File

Sections E thru K: Complete on all inspections as appropriate. N/A - Not Applicable N/E - Not Evaluated

Section E: Permit Verification				
	Yes	No	N/A	N/E
INSPECTION OBSERVATIONS VERIFY THE PERMIT				
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	<u>X</u>	___	___	
(b) CORRECT NAME AND LOCATION OF RECEIVING WATERS	<u>X</u>	___	___	
(c) PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION (INDUSTRIES)	___	___	<u>X</u>	
(d) FLOWS AND LOADINGS CONFORM WITH NPDES PERMIT PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(e) TREAT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(f) NEW TREATMENT PROCESS(ES) ADDED SINCE LAST INSPECTION	<u>X</u>	___	___	
(g) NOTIFICATION GIVEN TO STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES	<u>X</u>	___	___	
(h) ALL DISCHARGES ARE PERMITTED	<u>X</u>	___	___	
(i) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT	<u>X</u>	___	___	

COMMENTS/STATUS:

(f) Company installed an oil/water separator in stormwater drainage ditch alongside east side of property.

Section F: Compliance Schedules/Violations				
	Yes	No	N/A	N/E
(a) ANY SIGNIFICANT VIOLATIONS SINCE THE LAST INSPECTION	___	<u>X</u>	___	
(b) PERMITTEE IS TAKING ACTIONS TO RESOLVE VIOLATIONS	___	___	<u>X</u>	
(c) PERMITTEE HAS COMPLIANCE SCHEDULE	<u>X</u>	___	___	
(d) COMPLIANCE SCHEDULE CONTAINED IN <u>NPDES permit</u>	___	___	___	
(e) PERMITTEE IS MEETING COMPLIANCE SCHEDULE	___	___	___	<u>X</u>

COMMENTS/STATUS:

Section G: Operation and Maintenance

TREATMENT WORKS:

	Yes	No	N/A	N/E
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED				
(a) STANDBY POWER AVAILABLE GENERATOR <u>X</u> DUAL FEED	<u>X</u>	___	___	___
(b) ADEQUATE ALARM SYSTEM AVAILABLE FOR POWER OR EQUIPMENT FAILURES	<u>X</u>	___	___	___
(c) ALL TREATMENT UNITS IN SERVICE OTHER THAN BACKUP UNITS	<u>X</u>	___	___	___
(d) SUFFICIENT OPERATING STAFF PROVIDED # SHIFTS <u>3</u> DAYS/WEEK <u>7</u>	<u>X</u>	___	___	___
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>IV</u>	<u>X</u>	___	___	___
(f) ROUTINE AND PREVENTIVE MAINTENANCE SCHEDULED/PERFORMED ON TIME	<u>X</u>	___	___	___
(g) ANY MAJOR EQUIPMENT BREAKDOWN SINCE LAST INSPECTION	___	<u>X</u>	___	___
(h) OPERATION AND MAINTENANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(i) ANY PLANT BYPASSES SINCE LAST INSPECTION	<u>X</u>	___	___	___
(j) REGULATORY AGENCY NOTIFIED OF BYPASSES <u>X</u> ON MORS <u>X</u> 800 NO.	<u>X</u>	___	___	___
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	___	<u>X</u>	___	___

COLLECTION SYSTEM: N/A

	Yes	No	N/A	N/E
(a) PERCENT COMBINED SYSTEM <u>0</u> %				
(b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO_ SSO <u>X</u>)	___	___	___	___
(c) REGULATORY AGENCY NOTIFIED OF OVERFLOWS (SSOs)	___	___	___	___
(d) CSO O AND M PLAN PROVIDED AND IMPLEMENTED	___	___	___	___
(e) CSOs MONITORED AND REPORTED IN ACCORDANCE WITH PERMIT	___	___	___	___
(f) PORTABLE PUMPS USED TO RELIEVE SYSTEM	___	___	___	___
(g) LIFT STATION ALARM SYSTEMS PROVIDED AND MAINTAINED	___	___	___	___
(h) ARE LIFT STATIONS EQUIPPED WITH PERMANENT STANDBY POWER OR EQUIVALENT	___	___	___	___
(i) IS THERE AN INFLOW INFILTRATION PROBLEM (SEPARATE SEWER SYSTEM) OR WERE THERE ANY MAJOR REPAIRS TO COLLECTION SYSTEM SINCE LAST INSPECTION	___	___	___	___
(j) ANY COMPLAINTS RECEIVED SINCE LAST INSPECTION OF BASEMENT FLOODING	___	___	___	___
(k) ARE ANY PORTIONS OF THE SEWER SYSTEM AT OR NEAR CAPACITY	___	___	___	___

COMMENTS/STATUS:

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP) N/A
SUBMITTED DATE 8/23/97 APPROVAL # 3-333PM NOT SUBMITTED ___ N/A ___

	Yes	No	N/A	N/E
(b) SLUDGE MANAGEMENT PLAN CURRENT	<u>X</u>	___	___	___
(c) SLUDGE ADEQUATELY DISPOSED (METHOD: <u>Land Application</u>)	<u>X</u>	___	___	___
(d) IF SLUDGE IS INCINERATED, WHERE IS ASH DISPOSED OF _____	___	___	___	___
(e) IS SLUDGE DISPOSAL CONTRACTED (NAME: <u>Mid Ohio</u>)	<u>X</u>	___	___	___
(f) HAS AMOUNT OF SLUDGE GENERATED CHANGED SIGNIFICANTLY SINCE LAST INSPECTION	___	<u>X</u>	___	___
(g) ADEQUATE SLUDGE STORAGE PROVIDED AT PLANT	<u>X</u>	___	___	___
(h) LAND APPLICATION SITES MONITORED AND INSPECTED PER SMP	<u>X</u>	___	___	___
(i) RECORDS KEPT IN ACCORDANCE WITH STATE AND FEDERAL LAW	<u>X</u>	___	___	___
(j) ANY COMPLAINTS RECEIVED IN LAST YEAR REGARDING SLUDGE	<u>X</u>	___	___	___
(k) IS SLUDGE ADEQUATELY PROCESSED (DIGESTION, DEWATERING, PATHOGEN CONTROL)	<u>X</u>	___	___	___

COMMENTS/STATUS:

(j) Odor complaints regarding Land Applied Sludge

Section I: Self-Monitoring Program

Part 1. Flow measurement

	Yes	No	N/A	N/E
(a) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED & MAINTAINED <u>X</u> TYPE OF DEVICE: ___ ULTRASONIC & PARSHALL FLUME <u>X</u> ULTRASONIC & WEIR ___ WEIR ___ CALCULATED FROM INFLUENT <u>X</u> OTHER (Specify Magmeter)	<u>X</u>	___	___	___
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration _____)	<u>X</u>	___	___	___
(c) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED _____	<u>X</u>	___	___	___
(d) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOWS	<u>X</u>	___	___	___
(e) ACTUAL FLOW DISCHARGED IS MEASURED	<u>X</u>	___	___	___
(f) FLOW MEASURING EQUIPMENT INSPECTION FREQUENCY: ___ DAILY ___ WEEKLY ___ MONTHLY <u>X</u> OTHER	___	___	___	___

COMMENTS/STATUS

(a) on influent & effluent of both lants
(b) Once every six months

Part 2. Sampling

	Yes	No	N/A	N/E
(a) SAMPLING LOCATION(S) ARE AS SPECIFIED BY PERMIT	<u>X</u>	___	___	___
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT	<u>X</u>	___	___	___
(c) PERMITTEE USES REQUIRED SAMPLING METHOD	<u>X</u>	___	___	___
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE	<u>X</u>	___	___	___
(i) SAMPLES REFRIGERATED DURING COMPOSITING	<u>X</u>	___	___	___
(ii) PROPER PRESERVATION TECHNIQUES USED	<u>X</u>	___	___	___
(iii) CONTAINERS AND SAMPLE HOLDING TIMES PRIOR TO ANALYSES CONFORM WITH 40 CFR 136.3	<u>X</u>	___	___	___
(e) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g., continuous monitoring instrumentation, calibration and maintenance records)	<u>X</u>	___	___	___
(f) ADEQUATE RECORDS MAINTAINED OF SAMPLING DATE, TIME, EXACT LOCATION, ETC.	<u>X</u>	___	___	___

COMMENTS/STATUS:

Part 3. Laboratory

	Yes	No	N/A	N/E
GENERAL				
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED (40 CFR 136.3)	<u>X</u>	___	___	___
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED	___	___	<u>X</u>	___
(c) ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT	___	<u>X</u>	___	___
(d) IF (c) IS YES, ARE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT	___	___	<u>X</u>	___
(e) COMMERCIAL LABORATORY USED	<u>X</u>	___	___	___
(1) PARAMETERS ANALYZED BY COMMERCIAL LAB <u>Metals, Cyanide, oil and grease /bioassay.</u>				

(2) LAB NAME: Jones & Henry Labs

QUALITY CONTROL/QUALITY ASSURANCE

(f) QUALITY ASSURANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(g) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT	___	___	___	<u>X</u>
(h) ADEQUATE RECORDS MAINTAINED	<u>X</u>	___	___	___
(i) RESULTS OF LATEST USEPA QUALITY ASSURANCE PERFORMANCE SAMPLING PROGRAM DATE : <u>8/28/2007</u> <u>X</u> SATISFACTORY <u>___</u> MARGINAL <u>___</u> UNSATISFACTORY				

COMMENTS/STATUS:

Section J: Effluent/Receiving Water Observations

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOLIDS	COLOR	OTHER
001	None	None	None	None	None	Clear	

COMMENTS/STATUS:

Section K: Multimedia Observations

	Yes	No	N/A	N/E
(a) ARE THERE INDICATIONS OF SLOPPY HOUSEKEEPING OR POOR MAINTENANCE IN WORK AND STORAGE AREAS OR LABORATORIES	___	<u>X</u>	___	___
(b) DO YOU NOTICE STAINING OR DISCOLORATION OF SOILS, PAVEMENT, OR FLOORS	___	<u>X</u>	___	___
(c) DO YOU NOTICE DISTRESSED (UNHEALTHY, DISCOLORED, DEAD) VEGETATION	___	<u>X</u>	___	___
(d) DO YOU SEE UNIDENTIFIED DARK SMOKE OR DUSTCLOUDS COMING FROM SOURCES OTHER THAN SMOKESTACKS	___	<u>X</u>	___	___
(e) DO YOU NOTICE ANY UNUSUAL ODORS OR STRONG CHEMICAL SMELLS	___	<u>X</u>	___	___
(f) DO YOU SEE ANY OPEN OR UNMARKED DRUMS, UNSECURED LIQUIDS, OR DAMAGED CONTAINMENT FACILITIES?	___	<u>X</u>	___	___

IF ANY OF THE ABOVE ARE OBSERVED, ASK THE FOLLOWING QUESTIONS:

- (1) WHAT IS THE CAUSE OF THE CONDITION?
- (2) IS THE OBSERVED CONDITION OR SOURCE A WASTE PRODUCT?
- (3) WHERE IS THE SUSPECTED CONTAMINANT NORMALLY DISPOSED?
- (4) IS THIS DISPOSAL PERMITTED?
- (5) HOW LONG HAS THE CONDITION EXISTED AND WHEN DID IT BEGIN?

COMMENTS/STATUS:

Section L: Complete as appropriate for sampling inspections
DO NOT ATTACH THIS PAGE WHEN COMPLETING REPORTS FOR EVALUATION INSPECTIONS

Section L: Sampling Procedures (for CSIs)

- GRAB SAMPLES OBTAINED
- COMPOSITE OBTAINED
- COMPOSITING FREQUENCY _____ PRESERVATION
- FLOW PROPORTIONED SAMPLE OBTAINED
- AUTOMATIC SAMPLER USED
- SAMPLE SPLIT WITH PERMITTEE
- CHAIN OF CUSTODY EMPLOYED
- SAMPLE OBTAINED FROM FACILITY SAMPLING DEVICE

SAMPLE REFRIGERATED DURING COMPOSITING: Yes No
SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE
COMMENTS:

F JIDE - VISUAL OBSERVATION - UNIT PROC

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 Prot.	S	
	Safety Features	S	
	Bypasses	Out	At headworks
	Stormwater Overflows	N/A	
	Alternate Power Source	S	Generators
Preliminary	Maintenance of Collection Systems		
	Pump Station		
	Ventilation		
	Bar Screen	In	
	Disposal of Screenings		
	Comminutor		
	Grit Chamber	In	
	Disposal of Grit		
Primary	Settling Tanks	In	4 - one not in use
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters	In	4 Anaerobic
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds		
	Vacuum Filter		
	Disposal of Sludge		
	Centrifuge		Under testing (construction)
Other	Flow Meter and Recorder		
	Records		
	Lab Controls		
	Chemical Treatment		
	Aeration	In	12 tanks
Secondary-Tertiary List items as required	Final Clarifier	In	5 tanks - one not in use
	PAS	In	
	WAS	In	
Disinfection	Effluent		
	Disinfection System	In	UV
	Effective Dosage		
	Contact Time		
	Contact Tank		
	Dechlorination		