



State of Ohio Environmental Protection Agency

Northwest District Office

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

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www.epa.state.oh.us

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

Re: Ottawa County
City of Port Clinton
NPDES Permit

June 30, 2009

Mr. Robert J. Berner, Safety-Service Director
City of Port Clinton
1868 E. Perry Street
Port Clinton, Ohio 43452

Dear Mr. Berner:

On June 4, 2009, a compliance inspection was made of the wastewater treatment facilities serving the City of Port Clinton. Mr. Ernie Isaac, Superintendent, was present and provided information on plant operations. Mr. Dan Gill, of our Central Office was also present to review the collection system with emphasis on Port Clinton being a combined sewer overflow community. He will be issuing a report under separate cover. At the time of my visit a clear final effluent was observed being discharged. Our comments and recommendations are as follows:

- 1) Phases 1A and 2 of the plant upgrade are now approximately 85 percent complete. All major components are in operation. Please notify me when the project is totally completed. This is a significant upgrade with all three secondary units being completely rebuilt and solids handling capabilities improved with the addition of a permanent belt filter press and building. The #3 raw sewage pump is out of service and scheduled for repair.
- 2) Monthly CSO and NPDES discharge monitoring reports are being received in a timely manner and indicated four (4) combined sewer overflow events during 2008, and only one (1) event thus far in 2009. Four CBOD 5 NPDES permit limit violations occurred during 2008. These and past violations were attributed to a low spot in the Actiflo piping which accumulated solids, which has been addressed in this improvement project. The above data does not reflect a recent intense storm, which dropped five (5) inches of rain over a two hour period and flooded much of the city.

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- 3) A preliminary report has been completed on a future major collection system improvement project. The Lakeview Park Area sewer separation project located on the city's east side would eliminate approximately 30 to 40 percent of the combined sewers.
- 4) Lab personnel received all "acceptable" results in the latest USEPA laboratory quality assurance sampling program, DMRQA # 28, dated August 2008. This is the highest rating available.
- 5) One item that was identified during the interview with Mr. Gill was the amount of grit and street debris that makes it to the plant. This is having an adverse effect on the actiflo process. We understand that the city has a street cleaner, but it's effectiveness is limited, and a new unit is desired. The implementation of a regularly scheduled street cleaning effort should be part of the collection system operation and maintenance program.

We appreciate the city's commitment in improving it's wastewater treatment facilities, as ensuring a quality final effluent and reducing CSO discharges into Lake Erie are a high priority for Ohio EPA. Mr. Isaac indicated that operations have been a challenge during construction, and we appreciate his and his staff's efforts. Our inspection report is enclosed. If there are any errors, or you have any questions, please feel free to call me at (419) 373-3020 or email at rick.zuzik@epa.state.oh.us

Yours truly,



Richard A. Zuzik, MSE
Division of Surface Water

//lr

pc: Ernie Isaac , Superintendent, w/enclosure
(DSW-NWDO.File)

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
<u>2P000014</u>	<u>OH005287</u>	<u>09/06/04</u>	<u>C</u>	<u>S</u>	<u>1</u>

Section B: Facility Data

Name and Location of Facility Inspected Port Clinton WWTP 100 N. Jackson Street Port Clinton, Ohio 43452	Entry Time 1:00 p.m.	Permit Effective Date 3/1/07
	Exit Time 3:30 p.m.	Permit Expiration Date 7/31/10

Name(s) and Title(s) of On-Site Representative(s) Ernie Isaac, Superintendent	Phone Number(s) (419) 734-3221
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Name, Address and Title of Responsible Official Robert Berner, Safety Service Director City of Port Clinton 1868 E. Perry Street Port Clinton, Ohio 43452	Phone Number (419) 732-0827
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Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>N</u> Pretreatment
<u>S</u> Records/Reports	<u>N</u> Laboratory	<u>-</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>N</u> Sludge Storage/Disposal	<u>-</u> Other
<u>M</u> Collection System		

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

Plant under construction, approximately 85% complete. See letter.


 Richard A. Zuzik, Ohio EPA, Northwest District Office
 Name(s) and Signature(s) of Inspector(s) Date


 Elizabeth A. Wick, P.E., Ohio EPA, Northwest District Office
 Name and Signature of Reviewer Date

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

Section E: Permit Verification

INSPECTION OBSERVATIONS VERIFY THE PERMIT	Yes	No	N/A	N/E
(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)

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 NPDES permit	___	___	___	
(e) PERMITTEE IS MEETING COMPLIANCE SCHEDULE	___	___	<u>X</u>	

COMMENTS/STATUS:

City operating under USEPA Consent Order
Phases IA, II plant improvement project under construction approximately 85% complete.

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 ___ DAYS/WEEK <u>7</u>	___	___	___	___
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>III</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 ___ ON MORS ___ 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>50</u> %				
(b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO <u>X</u> SSO <u>X</u>)	<u>x</u>	___	___	___
(c) REGULATORY AGENCY NOTIFIED OF OVERFLOWS (SSOs)	___	___	<u>x</u>	___
(d) CSO O AND M PLAN PROVIDED AND IMPLEMENTED	<u>x</u>	___	___	___
(e) CSOs MONITORED AND REPORTED IN ACCORDANCE WITH PERMIT	<u>x</u>	___	___	___
(f) PORTABLE PUMPS USED TO RELIEVE SYSTEM	<u>x</u>	___	___	___
(g) LIFT STATION ALARM SYSTEMS PROVIDED AND MAINTAINED	<u>x</u>	___	___	___
(h) ARE LIFT STATIONS EQUIPPED WITH PERMANENT STANDBY POWER OR EQUIVALENT	<u>x</u>	___	___	___
(i) IS THERE AN INFLOW INFILTRATION PROBLEM (SEPARATE SEWER SYSTEM) OR WERE THERE ANY MAJOR REPAIRS TO COLLECTION SYSTEM SINCE LAST INSPECTION	<u>x</u>	___	___	___
(j) ANY COMPLAINTS RECEIVED SINCE LAST INSPECTION OF BASEMENT FLOODING	<u>x</u>	___	___	___
(k) ARE ANY PORTIONS OF THE SEWER SYSTEM AT OR NEAR CAPACITY	___	<u>x</u>	___	___

COMMENTS/STATUS:

11 total lift stations, replacing 4 with cellular telemetry
Only 1 without alarm

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP) N/A
SUBMITTED DATE _____ APPROVAL # _____ NOT SUBMITTED ___ N/A _____

	Yes	No	N/A	N/E
(b) SLUDGE MANAGEMENT PLAN CURRENT	<u> x </u>	_____	_____	_____
(c) SLUDGE ADEQUATELY DISPOSED (METHOD: <u>landfill</u>)	<u> x </u>	_____	_____	_____
(d) IF SLUDGE IS INCINERATED, WHERE IS ASH DISPOSED OF _____	_____	_____	_____	_____
(e) IS SLUDGE DISPOSAL CONTRACTED (NAME: <u>Midwest</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	_____	_____	_____	_____
(h) LAND APPLICATION SITES MONITORED AND INSPECTED PER SMP	_____	_____	_____	_____
(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:
New belt filter press on line

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>	<u> x </u>	_____	_____	_____
TYPE OF DEVICE: <u> x </u> ULTRASONIC & PARSHALL FLUME _____ ULTRASONIC & WEIR _____ WEIR _____ CALCULATED FROM INFLUENT <u> x </u> OTHER (Specify) Magmeter	_____	_____	_____	_____
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration _____)	_____	_____	_____	_____
(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: <u> x </u> DAILY _____ WEEKLY _____ MONTHLY _____ OTHER	_____	_____	_____	_____

COMMENTS/STATUS

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>NO2, NO3, O&G, Metals, Sludge, Mercury</u>				
(2) LAB NAME: <u>Jones & Henry</u>				
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>8/08</u> <u>X</u> SATISFACTORY ___ MARGINAL UNSATISFACTORY				

COMMENTS/STATUS:

DMRQA #28 All parameters "acceptable"

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	None	

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	---	---	---	---
(b) DO YOU NOTICE STAINING OR DISCOLORATION OF SOILS, PAVEMENT, OR FLOORS	---	---	---	---
(c) DO YOU NOTICE DISTRESSED (UNHEALTHY, DISCOLORED, DEAD) VEGETATION	---	---	---	---
(d) DO YOU SEE UNIDENTIFIED DARK SMOKE OR DUSTCLOUDS COMING FROM SOURCES OTHER THAN SMOKESTACKS	---	---	---	---
(e) DO YOU NOTICE ANY UNUSUAL ODORS OR STRONG CHEMICAL SMELLS	---	---	---	---
(f) DO YOU SEE ANY OPEN OR UNMARKED DRUMS, UNSECURED LIQUIDS, OR DAMAGED CONTAINMENT FACILITIES?	---	---	---	---

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:

Plant under constrction

GUIDE - VISUAL OBSERVATION - UNIT PROCESSES

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

	CONDITION OR APPEARANCE	RATING	COMMENTS
General	Grounds	-	Plant Grounds under construction
	Buildings	-	
	Potable Water Supply Prot.	S	
	Safety Features	S	
	Bypasses	-	
	Stormwater Overflows		003 Adams Street
	Alternate Power Source	S	Diesel Generator
Preliminary	Maintenance of Collection Systems		
	Pump Station	In	11 total
	Ventilation	S	
	Bar Screen	In	2 automatic fine screens
	Disposal of Screenings	S	Landfill
	Comminutor	-	
	Grit Chamber Dewatering Screw	In	
	Disposal of Grit	S	Landfill
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent	S	
	Actiflo	S	2 units alternate for primary treatment both used for high flow slam mode.
Sludge Disposal	Digesters		
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds	-	
	Vacuum Filter		
	Disposal of Sludge	S	Landfill
	Belt Filter Press	S	New
Aerobic Sludge Holding	S	In	
Other	Flow Meter and Recorder	In	
	Records	S	
	Lab Controls	S	
	Chemical Treatment	In	Ferrous chloride with grit chamber
Secondary-Tertiary List items as required	Aeration/Clarifier	In	3 units (rebuilt)
Disinfection	Effluent	S	
	Disinfection System	S	
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	In	
	Dechlorination	IN	