



State of Ohio Environmental Protection Agency

Northwest District Office

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

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.ohio.gov

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

Re: Wyandot County
Carey WWTP
NPDES Permit

June 28, 2010

Mayor and Council
Village of Carey
127 North Vance Street
Carey, Ohio 43316

Dear Mayor and Council:

On June 17, 2010, Mr. Jason Ko conducted a Compliance Inspection of your wastewater treatment plant. Mr. Roy Johnson, Village Administrator, was present and provided information regarding the operation of the facility. This inspection was conducted as part of your National Pollutant Discharge Elimination System (NPDES) permit No. 2PD00038.

At the time of the inspection, all major treatment components were in service. The mixed liquor in the aeration tanks was a dark brown color. The final discharge from the polishing lagoons was clear with a slight greenish tint. However, we did not collect effluent samples to determine the quality of the discharge during the visit.

Your current NPDES permit will expire on August 31, 2013. Please note that this NPDES permit (Part I, C) requires the Village to comply with two (2) implementation schedules with specific milestones as follows:

- (1) Pollutant Minimization Program (PMP) for Mercury – Requiring submittal of control strategies for mercury compliance by September 2009
- (2) Mercury Variance Application – requiring submittal of a letter detailing the Village's ability to meet the mercury limit by September 2009

To date, we have not received the control strategies or the letter detailing the Village's ability to meet the mercury limits. Please submit these two items to our office as soon as possible.

We understand that the Village is continuing the investigation of the I/I problems throughout the entire collection system. The findings and recommendations from smoke testing and video inspections should be incorporated into a comprehensive rehabilitation program with the goal of minimizing the I/I from the collection system.

Mayor & Council
June 28, 2010
Page Two

Our review of your Discharge Monitoring Reports (7/1/2008 to 5/31/2010) indicated some effluent and frequency violations. Please refer to the enclosed violation tables.

Our completed inspection report is included for your review. If you have any questions, please call Mr. Jason Ko of our office at 419-373-3021.

Yours truly,



Elizabeth Wick, P.E.
Water Quality Engineer/Unit Supervisor
Division of Surface Water

CSK/cs

pc: Roy Johnson, Village Administrator
DSW, NWDO File

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
2PD00038	OH0020206	2010/6/17	C	S	P

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Carey WWTP 299 Wyandot Avenue Carey, OH 43316	8:30 A.M.	9/1/2008
	Exit Time 10:00 A.M.	Permit Expiration Date 8/31/2013

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Mr. Roy Johnson, Village Administrator	(419)396-7998

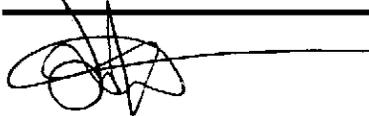
Name, Address and Title of Responsible Official	Phone Number
Mayor & Council Village of Carey 127 Vance Street Carey, OH 43316	(419)396-7681

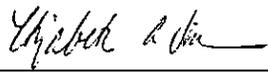
Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

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

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

- * Current NPDES permit will expire on 8/31/2013
- * The Schedule of Compliance in the NPDES permit contained 2 items with specific time frames and submit them as soon as possible
 - 1) Pollutant Minimization Program for Mercury - Submit control strategies by 9/2009
 - 2) Mercury Variance Application - Submit letter detailing the Village's option by 9/2009
- * Encourage the village to continue investigating and removing the Infiltration/Inflow (I/I) in the sewer collection system on an on-going basis
- * Cursory review of your Discharge Monitoring Reports (7/1/2008 to 5/31/2010) indicated some effluent and frequency violations


6/25/10, Ohio EPA, Northwest
 Name(s) and Signature(s) of Inspector(s) Date District Office


6/24/10, Ohio EPA, Northwest
 Name and Signature of Reviewer Date District Office

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:

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

COMMENTS/STATUS:

- (c) To date the required items were not submitted
- (d) Part I, C requires the following items:
 - 1) Pollutant Minimization Program for Mercury - Submit control strategies by 9/2009
 - 2) Mercury Variance Application - Submit necessary documentation by 9/2009

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> </u>	<u>X</u>	<u> </u>	<u> </u>	
(b) ADEQUATE ALARM SYSTEM AVAILABLE FOR POWER OR EQUIPMENT FAILURES	<u>X</u>	<u> </u>	<u> </u>	
(c) ALL TREATMENT UNITS IN SERVICE OTHER THAN BACKUP UNITS	<u>X</u>	<u> </u>	<u> </u>	
(d) SUFFICIENT OPERATING STAFF PROVIDED # SHIFTS <u>1</u> DAYS/WEEK <u>5</u>	<u>X</u>	<u> </u>	<u> </u>	
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>III</u>	<u>X</u>	<u> </u>	<u> </u>	
(f) ROUTINE AND PREVENTIVE MAINTENANCE SCHEDULED/PERFORMED ON TIME	<u>X</u>	<u> </u>	<u> </u>	
(g) ANY MAJOR EQUIPMENT BREAKDOWN SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	
(h) OPERATION AND MAINTENANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	<u> </u>	<u> </u>	
(i) ANY PLANT BYPASSES SINCE LAST INSPECTION	<u>X</u>	<u> </u>	<u> </u>	
(j) REGULATORY AGENCY NOTIFIED OF BYPASSES <u> </u> ON MORS <u> </u> 800 NO.	<u>X</u>	<u> </u>	<u> </u>	
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	<u>X</u>	<u> </u>	<u> </u>	

COLLECTION SYSTEM:

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

COMMENTS/STATUS:

Treatment Works:

- (a) test weekly
- (d) weekends on part-time basis

Collection System:

- (l) rehabilitation of sewer collection system is on-going

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP)
SUBMITTED DATE 1986 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>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:

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: <u>X</u> PARSHALL FLUME _____ ULTRASONIC & WEIR _____ WEIR _____ CALCULATED FROM INFLUENT _____ OTHER (Specify <u>magnate-influent</u>)				
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration <u>4/10</u>)	<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: <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>Oil & grease, Nitrates & Nitrite, P, metals & Ammonia</u>				
(2) LAB NAME: <u>Ginosko</u>				
QUALITY CONTROL/QUALITY ASSURANCE				
(f) QUALITY ASSURANCE MANUAL PROVIDED AND MAINTAINED	___	___	___	___
(g) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT	___	___	___	___
(h) ADEQUATE RECORDS MAINTAINED	___	___	___	___
(i) RESULTS OF LATEST USEPA QUALITY ASSURANCE PERFORMANCE SAMPLING PROGRAM DATE : _____ SATISFACTORY ___ MARGINAL ___ UNSATISFACTORY				

COMMENTS/STATUS:

Section J: Effluent/Receiving Water Observations

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOLIDS	COLOR	OTHER
001	--	--	--	--	--	slight greenish	

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:

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

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 Protection	S	
	Safety Features	S	Fenced
	Bypasses	OUT	Blended bypass
	Stormwater Overflows	OUT	SSOs were eliminated
	Alternate Power Source	OUT	Standby generator - test weekly
Preliminary	Maintenance of Collection Systems	S	Continue taking corrective actions to address I/I problems
	Pump Station	IN	3 raw & 2 storm pumps
	Ventilation	IN	
	Bar Screen	IN	3 units; 1 in use
	Disposal of Screenings	S	Landfill
	Comminutor	IN	1 unit
	Grit Chamber	IN	1 aerated unit
	Disposal of Grit	S	Landfill
	Storm Retention Basin	IN	2 basins w/ 3 blowers; draining
Primary	Settling Tanks	IN	Weir needs to be cleaned
	Scum Removal	IN	
	Sludge Removal	IN	
	Effluent	S	
Sludge Disposal	Digesters (Aerobic)	IN	2 units
	Temperature and pH	-	
	Gas Production	-	
	Heating Equipment	-	
	Sludge Pumps	IN	2 RAS/WAS & 2 RAW
	Sludge Storage Pad	IN	
	Sludge Blower	IN	2 units
	Disposal of Sludge	S	Landfill
	Sludge Press	IN	1 unit
Other	Flow Meter and Recorder	IN	At effluent & influent
	Records	S	
	Lab Controls	S	
	Chemical Treatment	-	
Secondary-Tertiary <small>List items as</small>	Aeration Basin	IN	5 units & dark brown; foamy
	Secondary Settling	IN	2 units, newer unit in use
	Tertiary Pump Station	IN	5 units
	Polishing Lagoon	IN	2 units
	Blowers	IN	3 units ; 1 in use
Disinfection	Effluent	S	Slight greenish tint
	Disinfection System	IN	
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	IN	
	Dechlorination	IN	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Unit Type	Unit	Reported Value	Violation Date
2PD00038*ID	May 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	3	3.01	5/1/2010
2PD00038*ID	May 2010	001	31616	Fecal Coliform	7D Conc	2000	2367.78	5/15/2010

Get New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
2PD00038*ID	April 2010	001	00530	Total Suspended Solids	2/Week	2	1	04/01/2010
2PD00038*ID	April 2010	001	00610	Nitrogen, Ammonia (NH3)	2/Week	2	1	04/01/2010
2PD00038*ID	April 2010	001	80082	CBOD 5 day	2/Week	2	1	04/01/2010
2PD00038*ID	April 2010	601	00530	Total Suspended Solids	2/Week	2	1	04/01/2010
2PD00038*ID	April 2010	601	80082	CBOD 5 day	2/Week	2	1	04/01/2010