



State of Ohio Environmental Protection Agency

Southeast District Office

2195 Front Street
Logan, Ohio 43138

TELE: (740) 385-8501 FAX: (740) 385-6490
www.epa.state.oh.us

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

November 21, 2007

Re: Tuscarawas County
Newcomerstown WWTP
Compliance Evaluation Inspection
Correspondence (PWW)

Mayor and Council
Village of Newcomerstown
124 West Church Street
P.O. Box 151
Newcomerstown, Ohio 43832

Dear Mayor and Council:

On October 3, 2006 and October 17, 2007, Fred Snell and I conducted compliance evaluation inspections at the Newcomerstown Wastewater Treatment Plant. The purpose of the inspections was to determine compliance with the terms and conditions of National Pollutant Discharge Elimination System (NPDES) Permit Number OPD00024*JD and to evaluate wastewater treatment plant performance. Mr. Tom Sauerbrey and Ms. Billie Burtscher were present during the October 3, 2006 evaluation. Mr. Sauerbrey and Mr. Don Walkup were present during the October 17, 2007 evaluation. As a result of the inspection, I have the following comments:

1. I understand the trickling filters were placed into operation in August 2006 and in July 2007 in preparation for Taste Apple's production season. During the October 3, 2006 inspection, biological growth on the filters was minimal; however, during the October 17, 2007 inspection the biological growth appeared adequate. The effluent from the trickling filters was flowing to the new Orbal oxidation ditch. The village should make ever effort to optimize treatment performance.
2. The Permit to Install application and detail plans for the rehabilitation and upgrade of the County Road 15 pump station were reviewed by our Division of Environmental and Financial Assistance. A permit to install was issued on December 4, 2006. I understand the upgrades have been completed.
3. One primary digester and one storage digester were off-line for cleaning during our October 3, 2006 inspection. I understand a new valve was being installed between the primary digester and the primary storage digester. The purpose of the valve is to allow the operators to pump sludge from the Orbal oxidation ditch to the primary digester.

4. Curtains were installed around the sludge press in 2006 to prevent splashing during processing. Sludge is hauled to the landfill twice per year.
5. I understand the Tuscarawas County Metropolitan Sewer District has given the village a key to the Port Washington pump station. This enables the village to obtain totalizer flow readings from the pump station. I understand the flows general range between 65,000 and 70,000 gpd. In addition, I understand there was a period of time when the flows were up around 90,000 gpd possibly due to high groundwater. Lastly, I understand the village will be evaluating their billing rate structure for the Port Washington area. Please inform this office on the status of updating the billing structure.
6. Since the plant upgrades have been completed, a new operation and maintenance manual needs to be written and submitted to the Ohio EPA for review. We will expect this document to be submitted as soon as possible but no later than March 1, 2008.
7. Please submit a copy of the results from your US EPA quality assurance performance sampling program DMR-QA Study 27.
8. The plates and chains on the mechanical bar screen were replaced in early October 2007.
9. The catwalks for the primary clarifiers have rusted and are unsafe for use. It will be necessary to replace the catwalks to prevent an accident.
10. The stairs and railings for the trickling filters are severely rusted. At a minimum, it will be necessary to sand and paint this equipment.
11. The pipe for the non-potable water pump in the trickling filter building is leaking and needs repaired.
12. The rubber gasket on the sludge rake arm in final clarifier 3 was replaced in early October 2007.

The wastewater treatment plant appeared to be in substantial compliance with the NPDES permit during both inspections. Copies of our completed inspection reports are enclosed. Please submit a written response to the aforementioned comments within **30 days** of receipt of this letter. The assistance and cooperation received during both inspections was appreciated. If you have any questions, please contact me at (740) 380-5206.

Sincerely,



Jennifer M. Witte
Chemical Engineer - Environmental Specialist II
Division of Surface Water

JMW/dh

Enclosures

- c: Thomas Sauerbrey, Supt., Village of Newcomerstown WWTP
- c: Tuscarawas County Health Department

NPDES
Compliance Inspection Report

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
OPD00024*JD	OH0026689	October 3, 2006	C	S	1

B. FACILITY DATA

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Newcomerstown WWTP 60675 County Road 9 Newcomerstown, Ohio 43832	12:30 p.m.	August 1, 2005
	Exit Time	Permit Expiration Date
	2:30 p.m.	January 31, 2010

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Tom Sauerbrey, Superintendent	(740) 498-7330
Billie Burtscher, Laboratory Technician	(740) 498-7246
Name, Address and Title of Responsible Official	Phone Number
Thomas Sauerbrey, Superintendent	(740) 498-7330

C. AREAS EVALUATED DURING INSPECTION

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

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

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

See attached letter.

Jennifer M. Witte
Jennifer M. Witte, Inspector, Ohio EPA, Southeast District Office

11/21/07
Date

David O. Schuetz for
Timothy M. Campbell, Reviewer, Ohio EPA, Southeast District Office

11/21/07
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: _____			X	
e. Permittee is meeting compliance schedule			X	

Comments:

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>III</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: a. The generator operates the treatment plant once per week for one hour and is loaded every Monday.
 d. The facility operates with three operators Monday through Friday from 7:00 a.m. to 3:00 p.m. and one operator for a 4:00 p.m. to 12:00 a.m. shift. One operator is on-site on weekends for 8 to 10 hours.
 e. There are two Class III and three Class II operators. The sewer crew consists of two employees and the WWTP crew consists of two operators and one laboratory technician.
 h. A new operation and maintenance manual needs to be written and submitted to the Ohio EAP for review.

Collection System	Yes	No	N/A	N/E
a. Percent combined system: 0%			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: g. Lift stations are equipped with telemetering.
h. Portable generators are available for backup power at pump stations.
*The village has applied for funding to upgrade the CR 15 pump station and 3900' of partially corroded cast iron pipe degraded by hydrogen sulfide gas. A PTI was issued on December 4, 2006.

H. SLUDGE MANAGEMENT

a. Sludge Management Plan (SMP): 5/18/89 Submitted Date
06-114B-PW Approval Number
____ Not submitted
____ N/A

	Yes	No	N/A	N/E
b. Sludge Management Plan current		X		
c. Sludge adequately disposed (Method: <u>Landfilling</u>)	X			
d. If sludge is incinerated, where is ash disposed of? _____			X	
e. Is sludge disposal contracted (Name: <u>George Darr</u>)	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: a. A new sludge management plan was received on July 29, 2002.
g. The new sludge digesters provide greater sludge holding capacity and digestion leading to less sludge disposal.

F. GUIDE – VISUAL OBSERVATION – UNIT PROCESS

OMB No. 158-R0035

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	VILLAGE
	Safety Features	S	
	Bypasses	S	REMOVED DURING UPGRADE
	Stormwater Overflows	--	
	Alternate Power Source	OUT	NEW GENERATOR LOADED FOR 1 HOUR PER WEEK
Preliminary	Maintenance of Collection Systems	S	
	Pump Station	S	COUNTY RD. 15 PUMP STATION TO BE UPGRADED
	Ventilation	S	
	Bar Screen	IN	1 UNIT; MECH; CLEANED 5 MIN PER 15 MIN PERIOD
	Disposal of Screenings	S	LANDFILLED
	Comminutor	--	
	Grit Chamber	IN	1 UNIT; AUGER OPERATED 1/24 HOURS FOR 20 MIN. PERIOD
	Disposal of Grit	S	LANDFILLED
	Raw Sewage Pumps	IN	3 UNITS (1200 GPM); VARIABLE SPEED
	Grit Pump	IN	1 UNIT; 85 GPM
Primary	Settling Tanks	IN	2 UNITS; BROWN; NEW VALVES AND WEIRS
	Scum Box	IN	1 NEW UNIT; AFTER PRIMARY CLARIFIER
	Scum Removal	S	TO AEROBIC DIGESTERS
	Sludge Removal	S	TO AEROBIC DIGESTERS; WASTING EVERY 2 TO 3 HRS.
	Effluent	S	
Sludge Disposal	Digesters	IN	2 PRIMARY TANKS & 2 STORAGE TANKS
	Temperature and pH	--	
	Gas Production	--	
	Heating Equipment	--	
	Sludge Pumps	IN	2 UNITS (150 GPM); PISTON
	Belt Filter Press	OUT	ONLY USED TWICE PER YEAR (APRIL & OCT.)
	Disposal of Sludge	S	LANDFILLING ALL SLUDGE TWICE PER YEAR
Other	Flow Meter and Recorder	S	
	Records	S	
	Lab Controls	S	
	Chemical Treatment	S	
Secondary Tertiary (list items as required)	Trickling Filters	IN	2 UNITS; MINIMAL BIOLOGICAL GROWTH
	Recirculation Pumps	IN	5 UNITS
	Final Clarifiers	IN	3 UNITS
	Sludge Removal	S	TO AEROBIC DIGESTERS
	Post Aeration	IN	
	Orbal Oxidation Ditch	IN	1 UNIT; 3 RINGS; 3 COVERED ROTORS PER RING
	RAS/WAS Pumps	IN	3 UNITS
Disinfection	Effluent	S	VISUALLY CLEAR AND NO FOAMING
	Disinfection System	IN	UV; 2 BANKS; SELF CLEANING
	Effective Dosage	--	
	Contact Time	S	
	Contact Tank	IN	1 UNIT
	Dechlorination	--	

**NPDES
Compliance Inspection Report**

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
OPD00024*JD	OH0026689	October 17, 2007	C	S	1

B. FACILITY DATA

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Newcomerstown WWTP 60675 County Road 9 Newcomerstown, Ohio 43832	10:45 a.m.	August 1, 2005
	Exit Time	Permit Expiration Date
	12:00 p.m.	January 31, 2010

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Tom Sauerbrey, Superintendent	(740) 498-7330
Don Walkup, Operator	(740) 498-7246
Name, Address and Title of Responsible Official	Phone Number
Thomas Sauerbrey, Superintendent 777 East State Street Newcomerstown, Ohio 43832	(740) 498-7330

C. AREAS EVALUATED DURING INSPECTION

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

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

See attached letter.

Jennifer M. Witte
Jennifer M. Witte, Inspector, Ohio EPA, Southeast District Office

11/21/07
Date

David R. Schutt for
Timothy M. Campbell, Reviewer, Ohio EPA, Southeast District Office

11/21/07
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 Permit</u>			X	
e. Permittee is meeting compliance schedule			X	

Comments:

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>III</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: a. The generator operates the treatment plant once per week for one hour and is loaded every Monday.
 d. The facility operates with three operators Monday through Friday from 7:00 a.m. to 3:00 p.m. and one operator for a 4:00 p.m. to 12:00 a.m. shift. One operator is on-site on weekends for 8 to 10 hours.
 e. There are two Class III and three Class II operators. The sewer crew consists of two employees and the WWTP crew consists of two operators and one laboratory technician.
 h. A new operation and maintenance manual needs to be written and submitted to the Ohio EPA for review.

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: g. Lift stations are equipped with telemetering.
h. Portable generators are available for backup power at pump stations.
*The CR 15 pump station and sewer line project have been completed.

H. SLUDGE MANAGEMENT

a. Sludge Management Plan (SMP): 5/18/89 Submitted Date
06-114B-PW Approval Number

Not submitted

N/A

	Yes	No	N/A	N/
b. Sludge Management Plan current		X		
c. Sludge adequately disposed (Method: <u>Landfilling</u>)	X			
d. If sludge is incinerated, where is ash disposed of? _____			X	
e. Is sludge disposal contracted (Name: <u>George Darr</u>)	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: a. A new sludge management plan was received on July 29, 2002.
g. The new sludge digesters provide greater sludge holding capacity and digestion leading to less sludge disposal.

I. SELF-MONITORING PROGRAM

Part 1 Flow Measurement		Yes	No	N/A	N/E
a.	Primary flow measuring device properly operated & maintained. Type of device: <input checked="" type="checkbox"/> ultrasonic & parshall flume _____ calculated from influent _____ weir <input checked="" type="checkbox"/> Other _____ ultrasonic & weir _____ Specify: <u>Magmeter - Influent</u>	X			
b.	Calibration frequency adequate (date of last calibration: <u>*</u>)				X
c.	Secondary instruments (totalizers, recorders etc.) properly operated and maintained	X			
d.	Flow measurement equipment adequate to handle expected ranges of flows	X			
e.	Actual flow discharged is measured	X			
f.	Flow measuring equipment inspection frequency: <input checked="" type="checkbox"/> Daily _____ Weekly _____ Monthly _____ Other				

Comments: *Flow meters must be calibrated annually by a certified technician.

Part 2 Sampling		Yes	No	N/A	N/E
a.	Sampling location(s) are as specified by permit	X			
b.	Parameters and sampling frequency agree with permit	X			
c.	Permittee uses required sampling method	X			
d.	Sample collection procedures are adequate	X*			
i.	Samples refrigerated during compositing	X			
ii.	Proper preservation techniques used	X			
	Conform with 40 CFR 136.3	X			
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)	X			
f.	Adequate records maintained of sampling date, time, exact location, etc.	X			

Comments: *The village purchased a new effluent composite sampler. The old effluent composite sampler has been rebuilt and is now being used as an influent composite sampler.

Part 3 Laboratory General		Yes	No	N/A	N/E
a.	EPA approved analytical testing procedures used (40 CFR 136.3)	X			
b.	If alternate analytical procedures are used, proper approval has been obtained			X	
c.	Analyses being performed more frequently than required by permit		X		
d.	If (c) is yes, are results reported in permittee's self-monitoring report			X	
e.	Commercial laboratory used	X			
1.	Parameters analyzed by commercial lab: <u>Metals, oil & grease, toxicity, nitrite, nitrate, sludge</u>				
2.	Lab name: <u>Coshocton Environmental Laboratory</u>				

Comments:

Part 3, Laboratory - Quality Control/Quality Assurance		Yes	No	N/A	N/
f.	Quality assurance manual provided and maintained				X
g.	Satisfactory calibration and maintenance of instruments and equipment	X			
h.	Adequate records maintained	X			
i.	Results of latest U.S. EPA quality assurance performance sampling program: Date: _____ Satisfactory _____ Marginal _____ Unsatisfactory				

Comments: i. Please submit your results for DMR-QA Study 27

J. EFFLUENT/RECEIVING WATER OBSERVATIONS

Outfall #	Oil Sheen	Grease	Turbidity	Visible Foam	Visible Float Solids	Color	Other
001	None	None	None	None	None	Clear	

Comments:

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		X		
b. Do you notice staining or discoloration of soils, pavement, or floors		X		
c. Do you notice distressed (unhealthy, discolored, dead) vegetation		X		
d. Do you see unidentified dark smoke or dustclouds coming from sources		X		
e. Do you notice any unusual odors or strong chemical smells		X		
f. Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities		X		

If any of the above are observed, ask the following questions:

1. What is the cause of the conditions?
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:

F. GUIDE – VISUAL OBSERVATION – UNIT PROCESS

OMB No. 158-R0035

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	VILLAGE
	Safety Features	S	
	Bypasses	S	REMOVED DURING UPGRADE
	Stormwater Overflows	--	
	Alternate Power Source	OUT	NEW GENERATOR LOADED FOR 1 HOUR PER WEEK
Preliminary	Maintenance of Collection Systems	S	
	Pump Station	S	COUNTY RD. 15 PUMP STATION UPGRADES COMPLETED
	Ventilation	S	
	Bar Screen	IN	1 UNIT; MECH; CLEANED 5 MIN/15 MIN PERIOD; PLATES & CHAINS REPLACED
	Disposal of Screenings	S	LANDFILLED
	Comminutor	--	
	Grit Chamber	IN	1 UNIT; AUGER; OPERATED 1/24 HOUR PERIOD FOR 20 MIN.
	Disposal of Grit	S	LANDFILLED
	Raw Sewage Pumps	IN	3 UNITS (1200 GPM); VARIABLE SPEED
	Grit Pump	IN	1 UNIT; 85 GPM
Primary	Settling Tanks	IN	2 UNITS; GRAY; SLUDGE WASTED ~ 2 TO 3 HRS. PER 8 HRS.
	Scum Removal	S	TO AEROBIC DIGESTERS
	Sludge Removal	S	TO AEROBIC DIGESTERS; WASTING EVERY 2 TO 3 HRS.
	Effluent	S	
	Weirs	S	CLEANED ~ EVERY 2 WEEKS
	Scum Box	IN	NEW; AFTER PRIMARY CLARIFIER
Sludge Disposal	Digesters	IN	2 PRIMARY TANKS & 2 STORAGE TANKS
	Temperature and pH	--	
	Gas Production	--	
	Heating Equipment	--	
	Sludge Pumps	IN	2 UNITS (150 GPM); PISTON
	Belt Filter Press	OUT	ONLY USED TWICE PER YEAR (APRIL & OCT.)
	Disposal of Sludge	S	LANDFILLING ALL SLUDGE TWICE PER YEAR
Other	Flow Meter and Recorder	S	
	Records	S	
	Lab Controls	S	
	Chemical Treatment	S	
Secondary Tertiary (list items as required)	Trickling Filters	IN	2 UNITS; PARALLEL OPERATION; DARK GREEN COLOR
	Recirculation Pumps	IN	5 UNITS; 2 PUMPS PER FILTER & 1 BACKUP UNIT
	Final Clarifiers	IN	3 UNITS; WEIRS CLEANED 1/WEEK
	Sludge Removal	S	TO AEROBIC DIGESTERS; WASTED ½ DAYS
	Post Aeration	IN	
	Orbal Oxidation Ditch	IN	1 UNIT; 3 RINGS; 3 COVERED ROTORS PER RING
	RAS/WAS Pumps	IN	3 UNITS
Disinfection	Effluent	S	VISUALLY CLEAR AND NO FOAMING
	Disinfection System	IN	UV; 2 BANKS; SELF CLEANING
	Effective Dosage	--	
	Contact Time	S	
	Contact Tank	IN	1 UNIT
	Dechlorination	--	