

h Governor
Lt. Governor
i. Nally, Director

September 25, 2012

Ms. Loretta Rokey
Village Administrator
Village of Glendale
30 Village Square
Glendale, Ohio 45246

RE: Hamilton County, Glendale WWTP, Compliance Evaluation Inspection

Dear Ms. Rokey:

On September 18, 2012, Joe Miller and I conducted a Compliance Evaluation Inspection at the Glendale Wastewater Treatment Plant (WWTP) (NPDES Permit No. OH0020141; OEPA Permit No. 1PB00012*FD). The inspection was also conducted as part of renewing the NPDES Permit. Representing this facility was Mike Heuer and Kevin Bell. A copy of my inspection report is enclosed.

The inspection report contains two unsatisfactory areas and two marginal areas. The Effluent / Receiving Waters section was rated unsatisfactory as a result of the NPDES Permit violations. The Permit section was rated unsatisfactory as a result of the WWTP bypasses. The Records / Reports section was rated marginal as a result of the failure to submit many of the Noncompliance Notifications. The Flow Measurement section was rated marginal as a result of the failure to annually recalibrate the flow meter or keep the flow meter clean.

Finally, the WWTP was noted for treating more flow than it was originally designed to handle. Concerns about whether the reported WWTP discharge volume were also noted. Once WWTP bypass is redirected for full treatment, this will further increase the amount of wastewater that the WWTP is treating. The Village should take steps to ensure accurate flow monitoring of the WWTP effluent. Once the new upgrade is completed, the Village must also determine if additional work is necessary at the WWTP or if a more aggressive infiltration and inflow reduction program is needed.

Ms. Loretta Rokey
Village of Glendale
September 25, 2012
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The areas noted in the report summary will require a written response by October 19, 2012. The response should include a description of the actions proposed to correct the violations and the dates anticipated for completion of these actions.

If you have any questions, please call me at (937) 285-6096.

Sincerely,



Ned Sarle
Environmental Specialist
Division of Surface Water
Permits Section

NS/bjc

Enclosure

ec: Kevin Bell, Village of Glendale



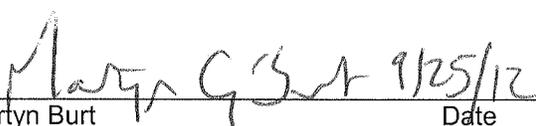
State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PB00012*FD	OH0020141	9/18/2012	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Glendale WWTP 528 East Sharon Road Glendale, Ohio 45246	9:40 A.M.	6/1/2006
	Exit Time	Permit Expiration Date
	2:00 P.M.	5/31/2011
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Mike Heuer, Utility Chief Operator Kevin Bell, WWTP Operator	(513) 200-8510 (513) 678-0992	
Name, Address and Title of Responsible Official	Phone Number	
Loretta Rokey, Village Administrator 30 Village Square Glendale, Ohio 45246	(513) 771-7200	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
U	Permit	M	Flow Measurement	N	Pretreatment
M	Records/Reports	N	Laboratory	U	Compliance Schedule
S	Operations & Maintenance	U	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	S	Sludge Storage/Disposal	N	Other
S	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
See Attached Summary of Findings / Comments.	
Inspector	Reviewer
 Ned Sarle Division of Surface Water Southwest District Office Date	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office Date

Permit #: 1PB00012*FD
NPDES #: OH0020141

Sections E thru K: Complete on all inspections as appropriate
Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

Section E: Permit Verification

Inspection observations verify the permit

- (a) Correct name and mailing address of permittee Y
- (b) Flows and loadings conform with NPDES permit..... Y
- (c) Treatment processes are as described in permit application... Y
- (d) All discharges are permitted..... N
- (e) Number and location of discharge points are as described
in permit..... Y
- (f) Storm water discharges properly permitted..... N/A

Comments/Status:

See Attached Summary of Findings / Comments.

Section F: Compliance

- (a) Any violations since the last inspection..... Y
- (b) Appropriate Non-compliance notification of violations..... N
- (c) Permittee is taking actions to resolve violations..... Y
- (d) Permittee has a compliance schedule..... Y
- (e) Compliance schedule contained in...NPDES Permit Compliance Schedule
- (f) Permittee is in compliance with schedule..... N
- (g) Has biomonitoring shown toxicity in discharge since last inspection N/A

Comments/Status:

See Attached Summary of Findings / Comments.

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

(a) Standby power available.....generator or dual feed Y

i. What does the back-up power source operate.....

Two generators will provide power to the whole WWTP.

ii. How often is the generator tested under load.....

The large generator is tested weekly and the small generator is tested monthly.

(b) Which components have an alarm system available for power or equipment failures.....

The SCADA is used to alert the WWTP staff via an auto dialer for major equipment failures.

(c) All treatment units in service other than backup units..... Y

(d) What method is used for scheduling routine & preventative maintenance (calendar, software, etc.).....

Written maintenance manual.

(e) Any major equipment breakdown since last inspection..... N

(f) Operation and maintenance manual provided and maintained..... Y

(g) Any plant bypasses since last inspection..... Y

(h) Any plant upsets since last inspection..... N

Comments/Status:

See Attached Summary of Findings / Comments.

Section G: Operation & Maintenance con't

Record Keeping/Operator of Record:

- (a) Wastewater Treatment Works classification (OAC 3745-7)..... III
- (b) Operator of Record holds unexpired license of class required by Permit..... Y
- (c) Copy of certificate of Operator of Record displayed on-site..... Y
- (d) Has the Operator of Record submitted an ORC Notification form. Y
- (e) Minimum operator staffing requirements fulfilled (OAC 3745-7).... N/A
- (f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met.....N/A
- (g) Operator of Record log book provided..... Y
- (h) Format of log book (e.g. computer log, hard bound book)

Hard bound log book.
- (i) Log book kept onsite (in an area protected from weather)..... Y
- (j) Log book contains the following:
 - I. Identification of treatment works..... N
 - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... Y
 - iii. Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)..... Y
 - iv. Laboratory results (unless documented on bench sheets)... Y
 - v. Identification of person making entries..... Y
- (k) Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... N

Comments/Status:

See Attached Summary of Findings / Comments..

Section G: Operation & Maintenance con't

Collection System:

- (a) Are there pump stations in the collection system..... Y
 - i. How many publicly-owned pump stations equipped with permanent standby power or equivalent.....2
 - ii. How many pump stations have telemetered alarms.....1
 - iii. How many pump stations have operable alarms.....2

- (b) Any chronic collection system overflows since last inspection..... N
- (c) Regulatory agency notified of all overflows..... N/A
- (d) Are there CSOs in the collection system..... N/A
if so, what is the LTCP status.....

- (e) How are CSOs monitored (chalk, block, level sensor, etc.).....

- (f) Portable pumps available for collection system maintenance..... Y
- (g) RDII Program established and active..... Y
- (h) Any WIB complaint received since last inspection..... Y
- (i) Is there a WIB response plan..... Y
- (j) Is any portion of the collection system at or near dry weather capacity..... N

Comments/Status:

The collection system consists of approximately 17 miles of sewer. Of this total, 12 miles of sewer is constructed of vitrified clay pipe. The village has equipment for cleaning and visually inspecting the sewers. A small percentage of the sewer is actually cleaned and visually inspected each year. The community has had around 11 water in basement events each year. Most are the result of problems with private sewer laterals. In cases of repeats problems with the mainline, the community will pay for installing a back water preventer. The community also has the necessary equipment for operating the two pump stations during power outages.

See Attached Summary of Findings / Comments.

Section H: Sludge Management

- (a) Method of Sludge Disposal... Land Application
 Haul to Another NPDES Permittee
 Haul to a Mixed Solid Waste Landfill

*if one of the selected methods is land application, complete applicable charts.

Class A - Exception Quality Sewage Sludge (monitoring station 584)

Pathogen Reduction Alternative	84370 Vector Attraction Reduction Options							
	Option 1 -38% Volatile Solids Reduction	Option 2 -Anaerobic Bench Scale Analysis	Option 3 - Aerobic Bench Scale Analysis	Option 4 - Specific Oxygen Uptake Rate	Option 5 - Aerobic Time and Temperature	Option 6 - Alkali Addition	Option 7 - >75% Percent Solids without Unstabilized Solids	Option 8 - >75% Percent Solids with Unstabilized Solids
Alternative 1 - Time and Temperature Regime (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - High pH and High Temperature (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 3 - Other Processes (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 4 - Unknown Processes (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Composting (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Heat Drying (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Heat Treatment (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Thermophilic Aerobic Digestion (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Beta Ray Irradiation (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Gamma ray Irradiation (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 5 - Pasteurization (84397)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 6 - Approved Equivalent Process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Class B Sewage Sludge (monitoring station 581)

Pathogen Reduction Alternative	84370 Vector Attraction Reduction Options									
	Option 1 -38% Volatile Solids Reduction	Option 2 -Anaerobic Bench Scale Analysis	Option 3 – Aerobic Bench Scale Analysis	Option 4 – Specific Oxygen Uptake Rate	Option 5 – Aerobic Time and Temperature	Option 6 – Alkali Addition	Option 7 – >75% Percent Solids without Unstabilized	Option 8 - >75% Percent Solids with Unstabilized	Option 9 – Land Injection	Option 10 – Immediate Incorporation
Alternative 1 - Geometric Mean of Seven Fecal Samples (84369)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Aerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Air Drying (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Anaerobic Digestion (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 – Composting (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 2 - Lime Treatment (46396)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alternative 3 – Approved Equivalent Process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) Has amount of sludge generated changed significantly since the last inspection..... N
- (c) How much sludge storage is provided at the plant.....
- (d) Records kept in accordance with State and Federal law (5 years according to OAC 3745-40-06)..... Y
- (e) Any complaints received in last year regarding sludge..... N
- (f) 5/8" screen at headworks for facilities that land apply sludge..... N/A
- (g) Are sludge application sites inspected to verify compliance with NPDES permit..... N/A
- (h) Is a contractor used for sludge disposal..... Y
 If so, what is the name of the contractor.....

Comments/Status:

See Attached Summary of Findings / Comments.

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary/Secondary flow measuring devices (e.g. weir with ultrasonic level sensor):

Parshall flume and ultrasonic meter
- (b) Flow meter calibrated annually N
(Date of last calibration:)
- (c) 24-hour recording instruments operated and maintained..... Y
- (d) Flow measurement equipment adequate to handle full range of flows..... N/E
- (e) All discharged flow is measured..... Y

Comments/Status:

None.

Section I: Self-Monitoring Program (con't)

Sampling:

- (a) Sampling location(s) are as specified by permit..... Y
- (b) Parameters and sampling frequency agree with permit..... Y
- (c) Permittee uses required sampling method..... Y
(see GLC page)
- (d) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e, continuous monitoring instrumentation, calibration and maintenance records)..... Y

Comments/Status:

None.

Section I: Self-Monitoring Program (con't)

Laboratory:

General

(a) Does the Quality Assurance Manual contain written Standard Operating Procedures (SOP's) for all analysis performed onsite..... N/E

(b) Do SOP's include the following if applicable..... N/E

- Title
- Scope and Application
- Summary
- Sample Handling and Preservation
- Interferences
- Apparatus and Materials
- Reagents
- Procedure
- Calculations
- Quality Control
- Maintenance
- Corrective Action
- Reference (Parent Method)

Note: Standard Methods 1020A establishes that "Quality assurance (QA) is the definitive program for laboratory operation that specifies the measure required to produce defensible data of know precision and accuracy. Standard operating procedures are to be used in the laboratory in sufficient detail that a competent analyst unfamiliar with the method can conduct a reliable review and/or obtain acceptable results." SOPs should be developed for each analytical procedure.

(c) EPA approved analytical testing procedures used (40 CFR 136.3).. N/E

(d) If alternate analytical procedures are used, proper approval has been obtained..... N/E

(e) Analyses being performed more frequently than required by permit. N/E

(f) If (e) is yes, are results in permittee's self-monitoring report..... N/E

(g) Satisfactory calibration and maintenance of instruments/equipment. N/E (see score from GLC page)

(h) Commercial laboratory used..... Y

Parameters analyzed by commercial lab: Everthing but temperature, DO and pH.

Lab name: MASI

Discharge Monitoring Report Quality Assurance (DMRQA)

(a) Participation in latest USEPA quality assurance performance sampling..... N/A

Date:

(b) Were any parameters "Unsatisfactory"..... N/E

(c) Reasons for "Unsatisfactory" parameters.....

[Empty rectangular box for reasons for unsatisfactory parameters]

Comments/Status:

None.

Section J: Effluent/Receiving Water Observations

Outfall # 001

Outfall Description: Effluent pipe

Receiving Stream: Town Run

Receiving Stream Description: No adverse conditions were noted in the receiving stream.

Comments/Status:

None.

Section K: Multimedia Observations

- (a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories..... N
- (b) Do you notice staining or discoloration of soils, pavement or floors.. N
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. N
- (d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks..... N
- (e) Do you notice any unusual odors or strong chemical smells..... N
- (f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities..... N

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:

None.

Permit #: 1PB00012*FD
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See Attached Summary of Findings / Comments

Areas Requiring a Response

The WWTP flow rate is monitored using a parshall flume and an ultrasonic meter. This flow measurement equipment was installed in 2007. Since being installed, the flow meter has not been recalibrated. The flow meter must be recalibrated annually. The wastewater staff indicated that this meter would be recalibrated in the next several days. Please provide documentation confirming that it has been recalibrated. Please also indicate the range this flow meter may measure. Finally, the parshall flume was noted as being covered with algae. The algae must be routinely removed to ensure accurate flow measurement results.

The WWTP sludge dewatering equipment is located outside. During the winter, sludge is not able to be wasted from the sludge digesters. This results in excessive sludge being maintained in the WWTP. Action needs to be taken to provide year round sludge dewatering and removal.

Areas Not Requiring a Response

A review of the eDMRs for January 2010 through July 2012 indicated numerous effluent violations. These violations are listed on Attachment I. At this time, many of these violations have not been reported in accordance to the NPDES Permit. Future violations must be reported in accordance to the NPDES Permit as addressed in Part III, section 12 titled "Noncompliance Notification." These effluent violations may also be reported using the form that is found at the following web link: <http://epa.ohio.gov/dsw/permits/individuals.aspx> . This form should be e-mailed to Joshua Jackson and Michelle Waller of this office.

Numerous WWTP bypasses were reported for the noted period. These bypasses are from the flow equalization basins. The bypasses reported for this period are listed on Attachment II.

The WWTP is designed for an average daily flow rate of 0.75 MGD and a peak daily flow rate of 3.0 MGD. For the noted period, the average daily flow rate was 0.799 MGD, and the peak daily flow rate was 2.82 MGD. If these flow rates are correct, then the WWTP is treating more wastewater than it was designed to treat. The village must ensure that the discharge volume reported is correct. If it is correct, then the village must start considering the need to expand the WWTP again or to aggressively reduce infiltration and inflow into the sewage collection system. This may become even more critical as the flows that have been historically bypassed are rerouted to the WWTP for full treatment. This additional flow may make final compliance even more difficult to achieve.

The expired NPDES Permit contained a Compliance Schedule for complying with the new phosphorus and Nitrate + Nitrite permit limits and to eliminate the WWTP

Permit #: 1PB00012*FD
NPDES #: OH0020141

bypasses. The constructed WWTP upgrade has not ensured compliance with these permit limits or eliminated the WWTP bypasses. As a result, a new Permit to Install (PTI) application has been submitted. The PTI is for pumping excess flows from the flow equalization basin to the secondary treatment system. The two old secondary clarifiers will also be refurbished and placed online. These WWTP improvements should ensure future compliance with the NPDES Permit.

An annual sludge disposal report is required to be submitted by January 31 of each following year. This reporting requirement is found in the NPDES Permit in Part II, Section M. The 2011 annual report was submitted on January 11, 2012 and reported that 24.61 dry tons of sludge were disposed at the Rumpke Landfill.

For the noted period, no sanitary sewer overflows (SSOs) occurred from the sewage collection system. If SSOs occur in the future, then they must be reported in accordance to the NPDES Permit as detailed in Part III, Section 11 titled "Unauthorized Discharge." A form that may be completed and submitted electronically is found at the following [web link:
http://epa.ohio.gov/portals/35/permits/sso%205%20day%20report%20final%2008%2004_fis.pdf](http://epa.ohio.gov/portals/35/permits/sso%205%20day%20report%20final%2008%2004_fis.pdf).

Staff indicated that the communication equipment that connects the WWTP instruments and the SCADA system did not work consistently. The village should work to either get this communication equipment to operate properly or work to replace it.

The village has four people to operate the water treatment plant, the water distribution system, the wastewater treatment plant and the sewage collection system. The current staff appears to be having difficulties in doing everything they want or should be doing for these systems. The village should give strong consideration of the current staffing levels to determine if they are adequate to handle current job requirements.

Attachment I

Glendale WWTP

Effluent Limit Violations for January 2010 through July 2012

Reporting Period	Parameter	Limit Type	Units	Permit Limit	Reported Value
January 2010	Nitrite + Nitrate	Monthly	mg/l	5.0	6.3
January 2010	Nitrite + Nitrate	Monthly	kg/day	14.2	21.6
January 2010	Nitrite + Nitrate	Weekly	kg/day	21.3	28.2
April 2010	Nitrite + Nitrate	Monthly	mg/l	5.0	5.8
June 2010	Phosphorus	Monthly	mg/l	1.0	1.6
June 2010	Phosphorus	Weekly	mg/l	1.5	2.6
June 2010	Phosphorus	Monthly	kg/day	2.84	3.69
June 2010	Nitrite + Nitrate	Monthly	mg/l	5.0	7.0
June 2010	Nitrite + Nitrate	Weekly	mg/l	7.5	9.2
June 2010	Nitrite + Nitrate	Monthly	kg/day	14.2	19
June 2010	Nitrite + Nitrate	Weekly	kg/day	21.3	23.5
August 2010	Phosphorus	Monthly	mg/l	1.0	1.1
October 2010	Phosphorus	Monthly	mg/l	1.0	1.9
October 2010	Phosphorus	Weekly	mg/l	1.5	3.1
November 2010	Phosphorus	Monthly	mg/l	1.0	2.2
November 2010	Phosphorus	Weekly	mg/l	1.5	2.8
February 2011	TSS	Weekly	kg/day	51.1	93.7
February 2011	Nitrite + Nitrate	Monthly	kg/day	14.2	14.8
February 2011	Nitrite + Nitrate	Weekly	kg/day	21.3	24.0
March 2011	Nitrite + Nitrate	Monthly	kg/day	14.2	17.4
April 2011	TSS	Monthly	kg/day	34.1	52.6
April 2011	Nitrite + Nitrate	Monthly	kg/day	14.2	23.5
April 2011	Nitrite + Nitrate	Weekly	kg/day	21.3	23.8
April 2011	TSS	Weekly	kg/day	51.1	82.1
April 2011	TSS	Weekly	kg/day	51.1	98.4
April 2011	Nitrite + Nitrate	Weekly	kg/day	21.3	23.1
May 2011	Ammonia	Monthly	mg/l	1.0	1.5
May 2011	Ammonia	Monthly	kg/day	2.84	5.10
May 2011	Nitrite + Nitrate	Weekly	kg/day	21.3	25.6
May 2011	Ammonia	Weekly	mg/l	1.5	1.9
May 2011	Ammonia	Weekly	kg/day	4.26	5.05
May 2011	Ammonia	Weekly	mg/l	1.5	3.3
May 2011	Ammonia	Weekly	kg/day	4.26	8.83
May 2011	Ammonia	Weekly	kg/day	4.26	6.11
September 2011	Ammonia	Monthly	mg/l	1.0	1.4
September 2011	Ammonia	Monthly	kg/day	2.84	3.27
September 2011	Ammonia	Weekly	mg/l	1.5	2.0

Attachment I

Glendale WWTP

Effluent Limit Violations for January 2010 through July 2012

Reporting Period	Parameter	Limit Type	Units	Permit Limit	Reported Value
September 2011	Ammonia	Weekly	kg/day	4.26	4.76
October 2011	TSS	Monthly	kg/day	34.1	49.7
October 2011	Ammonia	Monthly	mg/l	1.0	1.1
October 2011	Ammonia	Monthly	kg/day	2.84	5.23
October 2011	Phosphorus	Monthly	kg/day	2.84	5.23
October 2011	Ammonia	Weekly	mg/l	1.5	2.3
October 2011	Ammonia	Weekly	kg/day	4.26	5.54
October 2011	TSS	Weekly	kg/day	51.1	168
October 2011	Ammonia	Weekly	kg/day	4.26	13.1
October 2011	Phosphorus	Weekly	kg/day	4.26	8.81
November 2011	Phosphorus	Monthly	kg/day	2.84	4.62
November 2011	Phosphorus	Weekly	kg/day	4.26	6.47
November 2011	Nitrite + Nitrate	Monthly	kg/day	14.2	17.1
November 2011	TSS	Weekly	kg/day	51.1	61.7
December 2011	TSS	Monthly	kg/day	34.1	49.4
December 2011	Nitrite + Nitrate	Monthly	kg/day	14.2	17.9
December 2011	TSS	Weekly	kg/day	51.1	90.2
January 2012	Nitrite + Nitrate	Monthly	mg/l	5.0	7.6
January 2012	Nitrite + Nitrate	Monthly	kg/day	14.2	44.6
January 2012	Nitrite + Nitrate	Weekly	mg/l	7.5	11
January 2012	Nitrite + Nitrate	Weekly	kg/day	21.3	75.7
February 2012	Nitrite + Nitrate	Monthly	kg/day	14.2	14.4
April 2012	Nitrite + Nitrate	Monthly	mg/l	5.0	7.1
April 2012	Nitrite + Nitrate	Monthly	kg/day	14.2	16.2
April 2012	Nitrite + Nitrate	Weekly	mg/l	7.5	8.8
May 2012	Phosphorus	Monthly	mg/l	1.0	3.2
May 2012	Phosphorus	Monthly	kg/day	2.84	13.1
May 2012	Phosphorus	Weekly	mg/l	1.5	5.9
May 2012	Phosphorus	Weekly	kg/day	4.26	22.5
July 2012	Ammonia	Monthly	mg/l	1.0	2.0
July 2012	Ammonia	Weekly	mg/l	1.5	6.6
July 2012	Ammonia	Monthly	kg/day	2.84	3.53
July 2012	Ammonia	Weekly	kg/day	4.26	12.0

Attachment II

Glendale WWTP Bypasses for January 2010 through July 2012

Facility	Station	Parameter	Units	Date	Reported Value
Glendale STP	602	Flow Rate	MGD	1/25/2010	0.19
Glendale STP	602	Flow Rate	MGD	1/26/2010	0.197
Glendale STP	602	Flow Rate	MGD	2/3/2010	0.48
Glendale STP	602	Flow Rate	MGD	2/22/2010	0.298
Glendale STP	602	Flow Rate	MGD	2/23/2010	0.338
Glendale STP	602	Flow Rate	MGD	2/24/2010	0.004
Glendale STP	602	Flow Rate	MGD	3/12/2010	0.293
Glendale STP	602	Flow Rate	MGD	3/13/2010	2.3
Glendale STP	602	Flow Rate	MGD	3/14/2010	0.714
Glendale STP	602	Flow Rate	MGD	3/15/2010	0.19
Glendale STP	602	Flow Rate	MGD	3/25/2010	0.93
Glendale STP	602	Flow Rate	MGD	3/26/2010	0.822
Glendale STP	602	Flow Rate	MGD	3/27/2010	0.109
Glendale STP	602	Flow Rate	MGD	5/2/2010	0.056
Glendale STP	602	Flow Rate	MGD	6/12/2010	1.099
Glendale STP	602	Flow Rate	MGD	6/13/2010	0.07
Glendale STP	602	Flow Rate	MGD	6/14/2010	0.335
Glendale STP	602	Flow Rate	MGD	6/15/2010	0.335
Glendale STP	602	Flow Rate	MGD	6/21/2010	0.893
Glendale STP	602	Flow Rate	MGD	6/22/2010	0.286
Glendale STP	602	Flow Rate	MGD	6/28/2010	0.177
Glendale STP	602	Flow Rate	MGD	11/25/2010	1.15
Glendale STP	602	Flow Rate	MGD	11/26/2010	0.026
Glendale STP	602	Flow Rate	MGD	11/29/2010	0.015
Glendale STP	602	Flow Rate	MGD	11/30/2010	1.034
Glendale STP	602	Flow Rate	MGD	1/1/2011	0.242
Glendale STP	602	Flow Rate	MGD	2/1/2011	1.064
Glendale STP	602	Flow Rate	MGD	2/2/2011	0.267
Glendale STP	602	Flow Rate	MGD	2/21/2011	2.019
Glendale STP	602	Flow Rate	MGD	2/22/2011	0.703
Glendale STP	602	Flow Rate	MGD	2/23/2011	0.002
Glendale STP	602	Flow Rate	MGD	2/24/2011	0.386
Glendale STP	602	Flow Rate	MGD	2/25/2011	1.263
Glendale STP	602	Flow Rate	MGD	2/26/2011	0.181
Glendale STP	602	Flow Rate	MGD	2/28/2011	0.427
Glendale STP	602	Flow Rate	MGD	3/4/2011	1.095
Glendale STP	602	Flow Rate	MGD	3/5/2011	2.159
Glendale STP	602	Flow Rate	MGD	3/6/2011	0.555
Glendale STP	602	Flow Rate	MGD	3/7/2011	0.027

Attachment II

Glendale WWTP Bypasses for January 2010 through July 2012

Facility	Station	Parameter	Units	Date	Reported Value
Glendale STP	602	Flow Rate	MGD	3/8/2011	0.018
Glendale STP	602	Flow Rate	MGD	3/9/2011	2.287
Glendale STP	602	Flow Rate	MGD	3/10/2011	1.501
Glendale STP	602	Flow Rate	MGD	3/11/2011	0.195
Glendale STP	602	Flow Rate	MGD	3/15/2011	0.814
Glendale STP	602	Flow Rate	MGD	3/16/2011	0.067
Glendale STP	602	Flow Rate	MGD	4/4/2011	0.728
Glendale STP	602	Flow Rate	MGD	4/5/2011	0.379
Glendale STP	602	Flow Rate	MGD	4/9/2011	0.258
Glendale STP	602	Flow Rate	MGD	4/10/2011	0.215
Glendale STP	602	Flow Rate	MGD	4/11/2011	1.563
Glendale STP	602	Flow Rate	MGD	4/12/2011	1.242
Glendale STP	602	Flow Rate	MGD	4/13/2011	0.074
Glendale STP	602	Flow Rate	MGD	4/15/2011	0.173
Glendale STP	602	Flow Rate	MGD	4/16/2011	1.22
Glendale STP	602	Flow Rate	MGD	4/17/2011	0.059
Glendale STP	602	Flow Rate	MGD	4/19/2011	2.218
Glendale STP	602	Flow Rate	MGD	4/20/2011	1.527
Glendale STP	602	Flow Rate	MGD	4/21/2011	0.277
Glendale STP	602	Flow Rate	MGD	4/22/2011	1.04
Glendale STP	602	Flow Rate	MGD	4/23/2011	2.197
Glendale STP	602	Flow Rate	MGD	4/24/2011	2.076
Glendale STP	602	Flow Rate	MGD	4/25/2011	2.005
Glendale STP	602	Flow Rate	MGD	4/26/2011	0.918
Glendale STP	602	Flow Rate	MGD	4/27/2011	1.887
Glendale STP	602	Flow Rate	MGD	4/28/2011	0.664
Glendale STP	602	Flow Rate	MGD	4/29/2011	0.134
Glendale STP	602	Flow Rate	MGD	5/2/2011	1.621
Glendale STP	602	Flow Rate	MGD	5/3/2011	1.859
Glendale STP	602	Flow Rate	MGD	5/4/2011	0.548
Glendale STP	602	Flow Rate	MGD	5/5/2011	0.004
Glendale STP	602	Flow Rate	MGD	5/23/2011	0.137
Glendale STP	602	Flow Rate	MGD	5/24/2011	0.046
Glendale STP	602	Flow Rate	MGD	5/26/2011	0.527
Glendale STP	602	Flow Rate	MGD	5/27/2011	0.235
Glendale STP	602	Flow Rate	MGD	6/24/2011	0.027
Glendale STP	602	Flow Rate	MGD	6/26/2011	0.026
Glendale STP	602	Flow Rate	MGD	7/24/2011	0.069
Glendale STP	602	Flow Rate	MGD	9/25/2011	0.617

Attachment II

Glendale WWTP Bypasses for January 2010 through July 2012

Facility	Station	Parameter	Units	Date	Reported Value
Glendale STP	602	Flow Rate	MGD	9/26/2011	0.484
Glendale STP	602	Flow Rate	MGD	10/19/2011	0.766
Glendale STP	602	Flow Rate	MGD	10/20/2011	0.266
Glendale STP	602	Flow Rate	MGD	11/3/2011	0.141
Glendale STP	602	Flow Rate	MGD	11/4/2011	0.062
Glendale STP	602	Flow Rate	MGD	11/14/2011	0.668
Glendale STP	602	Flow Rate	MGD	11/15/2011	0.81
Glendale STP	602	Flow Rate	MGD	11/16/2011	0.323
Glendale STP	602	Flow Rate	MGD	11/22/2011	0.746
Glendale STP	602	Flow Rate	MGD	11/23/2011	0.027
Glendale STP	602	Flow Rate	MGD	11/27/2011	0.87
Glendale STP	602	Flow Rate	MGD	11/28/2011	1.556
Glendale STP	602	Flow Rate	MGD	11/29/2011	1.116
Glendale STP	602	Flow Rate	MGD	11/30/2011	0.127
Glendale STP	602	Flow Rate	MGD	12/4/2011	0.927
Glendale STP	602	Flow Rate	MGD	12/5/2011	2.319
Glendale STP	602	Flow Rate	MGD	12/6/2011	1.002
Glendale STP	602	Flow Rate	MGD	12/7/2011	0.296
Glendale STP	602	Flow Rate	MGD	12/21/2011	0.902
Glendale STP	602	Flow Rate	MGD	12/22/2011	1.345
Glendale STP	602	Flow Rate	MGD	12/23/2011	0.15
Glendale STP	602	Flow Rate	MGD	12/27/2011	0.174
Glendale STP	602	Flow Rate	MGD	1/17/2012	1.585
Glendale STP	602	Flow Rate	MGD	1/18/2012	0.461
Glendale STP	602	Flow Rate	MGD	1/22/2012	0.216
Glendale STP	602	Flow Rate	MGD	1/23/2012	1.015
Glendale STP	602	Flow Rate	MGD	1/24/2012	0.142
Glendale STP	602	Flow Rate	MGD	1/26/2012	1.748
Glendale STP	602	Flow Rate	MGD	1/27/2012	1.243
Glendale STP	602	Flow Rate	MGD	1/28/2012	0.124
Glendale STP	602	Flow Rate	MGD	4/25/2012	0.17
Glendale STP	602	Flow Rate	MGD	5/1/2012	0.3
Glendale STP	602	Flow Rate	MGD	5/2/2012	0.33
Glendale STP	602	Flow Rate	MGD	5/3/2012	0.12
Glendale STP	602	Flow Rate	MGD	5/8/2012	0.27
Glendale STP	602	Flow Rate	MGD	5/9/2012	0.08
Glendale STP	602	Flow Rate	MGD	5/13/2012	0.22
Glendale STP	602	Flow Rate	MGD	5/14/2012	0.16
Glendale STP	602	Flow Rate	MGD	6/1/2012	0.06

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NPDES #: OH0020141