

sewage



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

September 14, 2010

Mr. Robert Leventry
Butler County Water and Sewer Department
130 High Street, 6th Floor
Hamilton, Ohio 45011

Re: Butler County, Queen Acres WWTP, Compliance Evaluation Inspection

Dear Mr. Leventry:

On September 10, 2010, I conducted a Compliance Evaluation Inspection at this facility (NPDES Permit No. OH0024261; OEPA Permit No. 1PG00043*FD). Representing this facility were Jack Thornsberry, Brian Custer, Adam Sackenheim, Steve Schaefer, Ken Fox and Greg Hassler. A copy of my inspection report is enclosed.

All areas evaluated in the inspection report were found to be satisfactory. Therefore, a response is not required at this time.

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

Sincerely,

Ned Sarle
Division of Surface Water
Permits Section

Enclosure

ec: Brian Custer, Butler County Water and Sewer Department



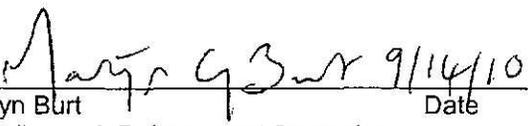
State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PG00043*FD	OH0024261	9/10/2010	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Butler County Queen Acres WWTP 2627 Ross - Hanover Road Hamilton, Ohio 45013	10:00 A.M.	7/1/2010
	Exit Time	Permit Expiration Date
	11:45 A.M.	6/30/2015
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Jack Thornsberry, Division Head	(513) 887 - 3929	
Brian Custer, Field Superintendent	(513) 887 - 5552	
Adam Sackenheim, Regulatory Compliance Manager	(513) 887 - 5563	
Steve Schaefer, Chief Operator	(513) 887 - 3686	
Ken Fox, WWTP Operator	(513) 887 - 3686	
Greg Hassler, WWTP Operator	(513) 887 - 3686	
Name, Address and Title of Responsible Official	Phone Number	
Robert Lenventry, Director 130 High Street, 6 th Floor Hamilton, Ohio 45011	(513) 887 - 5616	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	S	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	S	Compliance Schedule
S	Operations & Maintenance	S	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 Permit Section Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
9/14/10 Date	9/14/10 Date

Permit #: 1PG00043*FD

NPDES #: OH0024261

Summary of Findings / Comments

A review of the Discharge Monitoring Reports (DMRs) for August 2009 through July 2010 indicated one NPDES Permit violation. A weekly TSS loading violation was reported for March 2010. At this time, this violation has been adequately addressed. Future violations must continue to be reported as required by the NPDES Permit as detailed in Part III, Section 12 titled "Noncompliance Notification."

The WWTP is designed to treat an average daily flow of 600,000 gpd and a peak daily flow of 2,000,000 gpd. For this reporting period, the DMRs indicated the average daily flow was 342,000 gpd. The peak daily flow was 1,766,000 gpd and occurred on March 14, 2010.

For the noted period, no sewage collection system or WWTP bypasses have been reported. In the past year, 350 feet of the sanitary sewer have been replaced. The whole collection system has also been visual inspected this summer. Several additional sewer locations have been identified to be replaced next year. A few residents have taken advantage of the county's program for repairing sewer laterals.

The Queen Acres WWTP consists of an influent pump station, a flow equalization basin, a mechanical bar screen, a pista grit tank, two oxidation ditches, three clarifiers, an effluent pump station, a vertical cloth media disk filter, an ultraviolet disinfection system, and a cascade aeration system. An aerated sludge holding tank is also provided. One of the surface aerators has been repaired.

A backup generator is provided for the WWTP and the influent pump station. The backup generator is run once-a week.

For 2009, 37.15 dry tons of sludge was hauled to the Butler County LeSourdsville WWTP. Grit and screenings are also disposed at the Rumpke Sanitary Landfill.

On November 18, 2009, the Ohio EPA approved the Butler County proposed staffing reduction plan. The minimum staffing requirements is now 10 hours a week. The county is complying with this requirement.

The WWTP outfall sign has been posted as required by the permit. The WWTP discharge was clear and free of any noticeable solids.

A compliance schedule has been provided to address the new copper limits that will become effective on July 1, 2013. Increased copper sampling has been provided for the WWTP. The influent copper levels have been highly variable. Efforts to improve the treatment efficiencies for copper have been unsuccessful so far. The county is most likely to pursue either a Dissolved Metal Translator or a Water-Effect Ration. A general plan to address either of these options is required to be submitted by July 1, 2011. Finally, the Hazen and Sawyer company has been hired to provide any technical assistance needed to address either of these studies.

