



May 14, 2019

Director of the Division of Enforcement  
Department for Environmental Protection  
300 Fair Oaks Lane  
Frankfort, KY 40601

Chief, Environmental Enforcement Section  
Environmental and Natural Resources Division  
U.S. Department of Justice  
601 D street NW  
Washington, DC 20005  
DOJ Case No. 90-5-1-1-08591

Mr. Daniel J. O'Lone, Acting Chief  
NPDES Permitting and Enforcement Branch  
U.S. Environmental Protection Agency, Region 4  
Atlanta Federal Center  
61 Forsyth Street, S.W.  
Atlanta, Georgia 30303

Re: Consent Decree Case No. 2:05-cv-00199-WOB

To Whom It May Concern:

Pursuant to the above-referenced Consent Decree, Sanitation District No. 1 (SD1) is required to submit an annual report on the implementation of the Pump Station Overflow Elimination Plan, which received regulatory approval on May 14, 2008.

**38. Pump Station Plan.** The District shall provide an annual report within twelve months of approval of the Pump Station Plan on implementation of these watershed projects. Thereafter and until such projects are complete, the District shall provide an annual report on its implementation progress within sixty days after each anniversary date of the initial report.

A certification as required by the Consent Decree is also enclosed (Consent Decree paragraph 38).

To the best of my knowledge and belief, the enclosed report is true, accurate, and complete, and further demonstrates SD1's commitment to the mission of protecting and enhancing the water resources and quality of life in Northern Kentucky.

Page 2  
May 14, 2019

If you have any questions or concerns, do not hesitate to contact me at 859-578-7465 or by e-mail at [achaney@sd1.org](mailto:achaney@sd1.org).

Best regards,



Adam Chaney  
Executive Director

AC/wck  
Enclosures

Sanitation District No. 1  
May 14, 2019

# Pump Station Overflow Elimination Plan 2019 Annual Report



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**CERTIFICATION**

Pump Station Overflow Elimination Plan 2019 Annual Report  
Consent Decree Case No. 2:05-cv-00199-WOB

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
\_\_\_\_\_  
Adam Chaney  
Executive Director

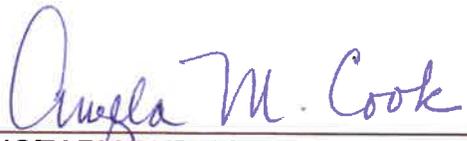
5/14/19  
\_\_\_\_\_  
Date

COMMONWEALTH OF KENTUCKY

)ss.

COUNTY OF Kenton

The foregoing instrument was acknowledged before me this 14 day of May, 2019 by Adam Chaney, Executive Director of Sanitation District No. 1.

  
\_\_\_\_\_  
NOTARY PUBLIC

Kenton County, Kentucky

My commission expires: 9-1-20

Angela M. Cook  
Notary Public  
Kentucky, State at Large  
Comm. Exp. 09-01-2020  
Notary ID 582735

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# **PUMP STATION OVERFLOW ELIMINATION PLAN**

## ***2019 ANNUAL REPORT***

May 14, 2019



**Sanitation District No. 1**  
1045 Eaton Drive  
Ft. Wright, KY 41017

## TABLE OF CONTENTS

**SECTION 1: PUMP STATION OVERFLOW ELIMIANTION PLAN..... 1**

1.1 Introduction ..... 1

1.2 Project Status Updates ..... 1

1.3 Project Extensions ..... 2

### **APPENDICES**

**APPENDIX A:** Pump Station Overflow Elimination Plan Project Status Updates

## LIST OF ACRONYMS AND ABBREVIATIONS

ID#	Identification Number
PSOEP	Pump Station Overflow Elimination Plan
SD1	Sanitation District No. 1

## **SECTION 1: PUMP STATION OVERFLOW ELIMINATION PLAN**

### **1.1 Introduction**

One of the requirements of Sanitation District No.1's (SD1) Consent Decree is to develop a Pump Station Overflow Elimination Plan (PSOEP) that identifies watershed projects to eliminate sanitary sewer overflows at specified pump stations, throughout the service area. The pump stations that were required to be included in this plan, and their respective deadlines for elimination, are provided in Exhibit E of the Consent Decree. The PSOEP was submitted in 2007 and received regulatory approval on May 14, 2008. Upon approval of the PSOEP, the Consent Decree requires SD1 to provide an annual report on its implementation of the watershed projects included in the original plan. This document serves as the eleventh annual update on the implementation of the PSOEP.

### **1.2 Project Status Updates**

Each of the 14 pump stations identified in the PSOEP has a unique set of circumstances that requires a customized solution to remediate its wet-weather capacity issues. A detailed listing of the projects and activities conducted to comply with the requirements of the PSOEP, including schedules and project updates for the current reporting period, can be found in Appendix A. To date, 13 of the 14 pump station overflow elimination projects have been completed.

#### Allen Fork Pump Station

SD1 documented the elimination of the Recurring SSO at the Allen Fork Pump Station, located at Manhole ID# 2390002, in Quarterly Report No. 30, submitted on April 30, 2015. The elimination of the Recurring SSO was documented eight months ahead of the December 31, 2015 deadline provided in Exhibit E of the Consent Decree.

In 2018, SD1 completed projects that provide additional capacities to the Allen Fork Pump Station. In April, the Burlington Reroute project redirected flow from approximately 70 homes away from the Allen Fork Pump Station and directly to the Burlington Pump Station. In October, SD1 replaced all three pumps at the Allen Fork Pump Station to

improve firm pumping capacity from 2.4 MGD to 3.4 MGD and total pumping capacity from 3.3 MGD to 4 MG.

### **1.3 Project Extensions**

#### Lakeview Pump Station Overflow Elimination Extension

The original deadline for construction of the remedial measures at Lakeview Pump Station in Exhibit E of the Consent Decree was December 31, 2013. SD1 provided a revised schedule for final improvements at Lakeview Pump Station with the March 31, 2013 resubmission of the Watershed Plans for Northern Kentucky, which extends the deadline to December 31, 2023. Formal approval of the deadline extension was given by the Kentucky Department for Environmental Protection and the United States Environmental Protection Agency in a letter dated May 13, 2013.

#### Ash Street Pump Station Schedule Force Majeure

Due to ongoing litigation over easement acquisitions, SD1 anticipates the Ash Street Pump Station project to proceed no later than May 1, 2021. However, target dates for beginning and completing the project may need further adjustments due to additional delays that may occur as a result of the litigation. Formal approval of SD1's force majeure request for the Ash Street Pump Station and forcemain projects was provided by the Kentucky Department for Environmental Protection and the United States Environmental Protection Agency in a letter dated April 11, 2018.

**APPENDIX A:**

***Pump Station Overflow Elimination Plan  
Project Status Updates***

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Pump Station Overflow Elimination Plan: Project Status Updates

As of May 2019

Pump Station	Required Overflow Elimination Date	Actual Completion Date	Solution Summary	Current Status
Alex-Licking	December 31, 2010	2008	Overflow elimination through replacement of the station with a new pump station sized to convey peak wet weather flows.	<b>Complete</b>
Allen Fork	December 31, 2015	2014	Construction of the Burlington PS and reroute the Allen Fork force main to the new Burlington PS. Identify and remove I/I sources upstream of Allen Fork PS. Construction of the Western Regional Conveyance System and the Western Regional WRF and redirection of the Burlington pump station to the Western system.	<b>Complete:</b> In addition to actions discussed in Section 7.6.1 of the Watershed Plan, the Western Regional Water Reclamation Facility (WRWRF) and the associated conveyance system were completed in 2013. Installation of 6,665 feet of 24-inch force main (replacement of existing 24-inch force main and upsized of 12-inch force main) was completed in 2013. Burlington PS pump modification occurred to restore original pumping capacity.  <b>Complete:</b> April 2018, completed the Burlington Sewer Reroute (see Appendix B of the Quarterly Reports). The project rerouted approximately 100 linear feet of gravity sewer that serves approximately 70 homes from the Allen Fork PS to the Burlington PS, which further improves wet-weather capacity at the Allen Fork PS and improve pumping operations.  <b>Complete:</b> October 2018, all 3 pumps were replaced at the Allen Fork Pump Station improving total pumping capacity to 4 MGD .
Ash Street	December 31, 2018*		Construct a new pump station on Ash St in Silver Grove, which will divert flow from the Ohio River Interceptor and the combined system to the Eastern Regional Water Reclamation Facility. Requires the construction of approximately 5.25 miles of 20" force main.  *Anticipated completion date has been provided. The approved deadline for construction of the pump station and forcemain is two years after obtaining a cleared site certificate.	The designs of the pump station and force main are complete. SD1 has successfully acquired most of the easements needed for construction of the force main; however, some property owners have challenged SD1's right to acquire some of the remaining easements. The project is on hold pending the outcome of ongoing litigation. A letter from Cabinet and USEPA, dated April 11, 2018, confirms Force Majeure finding on the Ash St Pump Station timeline.
Crestview	December 31, 2015	2015	A final solution will be selected according to the following schedule: 1) Calibrate hydraulic model and develop future condition models by June 12, 2008; 2) Select alternative solution for design by March 1, 2013; 3) Prepare final design for alternative solution selected by June 1, 2014; 4) Begin construction on selected alternative solution by January 1, 2015; 5) Selected alternative: construction of a new pump station and storage of 120,000 gallons (complete August 2015)	<b>Complete</b>
Harrison Harbor	December 31, 2010	See PS Overflow Elimination Annual Report May 11, 2009	Remove this station from the Exhibit E list, as monitoring and documentation show no overflow activity.	<b>Complete</b>
Highland Acres	December 31, 2010	2010	Overflow elimination through Kentucky Aire Pump Station removal. Peak wet weather flows are now being conveyed to the new WRWRF, through gravity sewer. The new gravity sewer is sized to convey peak wet weather flows under ultimate build-out conditions.	<b>Complete</b>
Kentucky Aire	December 31, 2015	2014	Overflow elimination through pump station removal. Flows are now being conveyed to the new WRWRF by a new gravity sewer sized to convey peak wet weather flows under ultimate build-out conditions.	<b>Complete</b>
Lakeview	December 31, 2023		The proposed solution includes: 1) Increase in the pump station capacity and reliability to 22.5 MGD through the planned pumps replacement project; 2) Redirect a portion of the Lakeview tributary area to the new Western Regional System; 3) Conduct SSES investigations and targeted, cost-effective, I/I removal in the area remaining tributary to Lakeview to reduce extraneous wet weather flows; 4) Local EQ storage and conveyance improvements	The status of each component is as follows: 1) <b>Complete 2013</b> 2) The Western Regional improvements and Narrows Rd Diversion PS ( <b>Complete 2012</b> ). The Kentucky Aire PS elimination provided additional capacity to Lakeview by rerouting flows to Western Regional Water Reclamation Facility (WRWRF) ( <b>Complete 2014</b> ). Redirection of the Richwood PS flows from Lakeview PS ( <b>Complete 2018</b> ) 3) <b>Complete 2018</b> The priority I/I source identification program is partially complete. Micro-monitoring study of common systems in Fort Wright was finished in 2018. Model calibrations for Southern Kenton Interceptor, North Lakeview Banklick Interceptor, and Horsebranch subcatchment are all complete. Additional flow monitoring projects and model calibrations of the major interceptor upstream of the Wilder Pump station was finished in 2018. No new I&I removal projects have been initiated since the micromonitoring and calibration projects have been completed. 4) Design of EQ storage and conveyance improvements to begin in 2023.
Riley Road No.1	December 31, 2010	2009	Overflow elimination through pump station removal. The new Riley Road Pump Station eliminates both the existing Riley Road No. 1 and Riley Road No. 2 stations.	<b>Complete</b>
Ripple Creek	December 31, 2010	2010	Overflow elimination through pump station removal. A new gravity sewer is conveying peak dry and wet weather flows to the existing Wolpert Pump Station. Storage has been constructed at the Wolpert Pump Station to store excess wet weather flow to ensure capacity is not exceeded during wet weather. Additionally, targeted I/I removal and rehabilitation of the existing sewers upstream of the Ripple Creek Pump Station were conducted.	<b>Complete</b>
South Hampton	March 31, 2015	2012	Overflow elimination through pump station removal. Flows are conveyed to the new WRWRF by the new Frogtown gravity sewer sized to convey peak wet weather flows under ultimate build-out conditions.	<b>Complete</b>
South Park	December 31, 2010	2010	SSES and flow monitoring work concluded that there are no dry or wet weather capacity-related issues at this station. To date, only two overflows have occurred at the South Park Pump Station and both were due to power outages. To eliminate any potential future overflows due to power outages, a backup power solution was installed at this pump station.	<b>Complete</b>
Sunset	December 31, 2010	2010	To meet the 2010 Consent Decree deadline with a temporary solution, a new force main was built to increase the pump station's capacity to eliminate the overflow in a typical year. A new diesel driven pump was also installed for backup during power outages. In July of 2014, the Sunset Pump Station was eliminated as the permanent solution. Flows are now conveyed by gravity to the new Arcadia Pump Station.	<b>Complete</b>
Taylorport	December 31, 2010	2004	Overflow elimination through pump station upgrades to convey wet weather flows.	<b>Complete</b>
Union	March 31, 2015	2012	Overflow elimination through pump station removal. Flows are conveyed to the new WRWRF by the new Union gravity sewer sized to convey peak wet weather flows under ultimate build-out conditions.	<b>Complete</b>