

Jefferson County, Alabama
Environmental Services Department

I/I Improvements Program

Quarterly Report
to EPA
January - March, 2015
Quarterly Report No. 73



JEFFERSON COUNTY COMMISSION



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LETTER OF CERTIFICATION

SUBJECT: Quarterly Report No. 73: January – March, 2015

DATE: April 1, 2015

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.

Environmental Services Department

Director, Environmental Services
Title

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Background

This *Quarterly Report* is submitted to EPA in accordance with paragraph Q. *Reporting Requirements* of Section VII *Remedial Actions* of the Consent Decree. *Quarterly Reports* are to be submitted to EPA within thirty (30) days of the end of each proceeding calendar quarter. This report covers progress of the County's I/I Improvements Program prior to and during the First Quarter, 2015.

This Report contains the descriptive summary of Remedial Actions required in the Consent Decree.

Remedial Actions: Current Status

Phase 1

Submittal of the monthly *Summary of Unpermitted Discharges* is the only ongoing activity under Phase 1. *Summary* reports are submitted to EPA and the citizen plaintiffs and placed in the Public Document Repositories each month. Concurrent with the *Summary* reports, documentation in support of the subject month's wet-weather related discharges is submitted under the requirements of Section XI.

Phase 2

All deliverables due to date under Phase 2 have been submitted to EPA on schedule. There were no Phase 2 documents submitted to EPA during the First Quarter, 2015.

Summary of Status of Phase 1 and Phase 2 Deliverables

The current status of all Phase 1 and Phase 2 deliverables is shown in the following Table I.

Jefferson County, AL
Environmental Services Department
I/I Improvements Program

Table I: Status of Phase 1 and Phase 2 Deliverables
Status as of: April 01, 2015

| Deliverable Item | Draft Due to EPA | Submitted to EPA | | Approved by EPA | Notes |
|----------------------------------|------------------|------------------|----------|-----------------|---------------------------|
| | | Draft | Revised | | |
| Phase 1 | | | | | |
| PSSA | 8-15-95 | 8-15-95 | 10-30-95 | 12-21-95 | |
| I/I Plan | 9-14-95 | 9-14-95 | 11-20-95 | 12-19-95 | |
| SSES Plan | 10-16-95 | 10-16-95 | 1-2-96 | 2-4-96 | |
| CPE Plan | 10-16-95 | 10-16-95 | 12-5-95 | 1-25-96 | |
| Initial WTSCIP | 10-30-95 | 10-30-95 | 1-19-96 | 2-20-96 | |
| Unpermitted Discharge Program | 10-30-95 | 10-30-95 | N/A | N/A | |
| CA Plan | 11-13-95 | 11-13-95 | N/A | 1-24-96 | |
| Water Quality Monitoring Plan | 11-28-95 | 11-27-95 | 2-26-96 | 9-5-96 | |
| Phase 2 | | | | | |
| I/I Reports | | | | | |
| Cahaba River | 2-1-96 | 2-1-96 | N/A | 3-19-96 | |
| Leeds | 4-1-96 | 4-1-96 | 6-5-96 | 7-11-96 | |
| Trussville | 4-1-96 | 4-1-96 | 6-5-95 | 7-11-96 | |
| Village Creek | 2-1-96 | 2-1-96 | N/A | 4-19-96 | |
| Valley Creek | 5-1-96 | 5-1-96 | N/A | 6-17-96 | |
| Five Mile Creek | 9-13-96 | 9-13-96 | N/A | 12-2-96 | |
| Turkey Creek | 5-1-96 | 5-1-96 | N/A | 6-17-96 | |
| Prudes Creek | 5-1-96 | 5-1-96 | N/A | 6-17-96 | |
| Warrior | 5-1-96 | 5-1-96 | N/A | 6-17-96 | |
| SSES Reports | | | | | |
| Cahaba River | 2-1-96 | 2-1-96 | 4-24-96 | 6-3-96 | |
| Leeds | 6-1-96 | 6-3-96 | N/A | 7-11-96 | |
| Trussville | 6-1-96 | 6-3-96 | N/A | 7-11-96 | |
| Village Creek Ph. 1 | 1-13-97 | 1-13-97 | 4-2-97 | 5-16-97 | |
| Village Creek Ph. 2 | 1-2-98 | 1-13-97 | 4-2-97 | 5-16-97 | |
| Valley Creek | 3-2-98 | 3-2-98 | N/A | 4-29-98 | |
| Shades Creek | 7-3-00 | 7-3-00 | 9-25-00 | 12-19-00 | |
| Five Mile Creek Ph. 1 | 3-2-98 | 3-2-98 | N/A | 4-29-98 | |
| Five Mile Creek Ph. 2 | 7-3-00 | 7-3-00 | 9-25-00 | 12-19-00 | |
| Turkey Creek | 7-3-00 | 9-28-99 | N/A | 11-23-99 | |
| Prudes Creek | 7-3-00 | 7-3-00 | 9-25-00 | 12-19-00 | |
| Warrior | 7-3-00 | 7-3-00 | 9-25-00 | 12-19-00 | |
| Capacity Analysis Reports | | | | | |
| Cahaba River | 5-1-96 | 5-1-96 | N/A | N/A | No EPA response required. |
| Leeds | 9-3-96 | 9-3-96 | N/A | N/A | No EPA response required. |
| Trussville | 9-3-96 | 9-3-96 | N/A | N/A | No EPA response required. |
| Village Creek Ph. 1 | 5-15-97 | 5-15-97 | N/A | N/A | No EPA response required. |
| Village Creek Ph. 2 | 5-15-97 | 5-15-97 | N/A | N/A | No EPA response required. |

| Deliverable Item | Draft Due to EPA | Submitted to EPA | | Approved by EPA | Notes |
|--------------------------------|------------------|------------------|---------|-----------------|--|
| | | Draft | Revised | | |
| Valley Creek | 6-1-98 | 6-1-98 | N/A | N/A | No EPA response required. |
| Shades Creek | 10-2-00 | 10-2-00 | N/A | N/A | No EPA response required. |
| Five Mile Creek Ph. 1 | 6-1-98 | 6-1-98 | N/A | N/A | No EPA response required. |
| Five Mile Creek Ph. 2 | 10-2-00 | 10-2-00 | N/A | N/A | No EPA response required. |
| Turkey Creek | 12-28-99 | 12-23-99 | N/A | N/A | No EPA response required. |
| Prudes Creek | 10-2-00 | 10-2-00 | N/A | N/A | No EPA response required. |
| Warrior | 10-2-00 | 10-2-00 | N/A | N/A | No EPA response required. |
| Capacity Improvement Schedules | | | | | |
| Cahaba River | 10-28-96 | 10-28-96 | N/A | 11-20-98 | |
| Leeds | 3-3-97 | 3-3-97 | N/A | 4-24-97 | No capacity projects indicated. |
| Trussville | 3-3-97 | 3-3-97 | N/A | 4-24-97 | No capacity projects indicated. |
| Village Creek Ph. 1 | 11-12-97 | 11-12-97 | | | No capacity projects indicated. |
| Village Creek Ph. 2 | 11-12-97 | 11-12-97 | | | No capacity projects indicated. |
| Valley Creek | 11-27-98 | 11-25-98 | N/A | 1-22-99 | No capacity projects indicated. |
| Shades Creek | 4-2-01 | 4-2-01 | N/A | 5-29-01 | No capacity projects indicated. |
| Five Mile Creek Ph. 1 | 11-27-98 | 11-25-98 | N/A | 1-22-99 | No capacity projects indicated. |
| Five Mile Creek Ph. 2 | 4-2-01 | 4-2-01 | N/A | 5-29-01 | No capacity projects indicated. |
| Turkey Creek | 6-20-00 | 6-20-00 | N/A | 8-24-00 | No capacity projects indicated. |
| Prudes Creek | 4-2-01 | 4-2-01 | N/A | 5-29-01 | No capacity projects indicated. |
| Warrior | N/A | | | | Not required all lines less than 18" diameter |
| CPE Reports - all systems | 11-4-96 | 11-4-96 | 3-21-97 | 3-28-97 | |
| PIP's - all systems | 5-5-97 | 5-5-97 | 7-25-97 | 11-10-97 | |
| Short Term O&M Plan | 8-4-98 | 8-4-98 | N/A | 2-19-99 | Part of Informal Dispute Resolution settlement |
| Long Term O&M Plan | 1-18-01 | 1-18-01 | 4-16-01 | 7-27-01 | Provisionally approved by EPA on 4/16/01 |

| WTSCIP Amendments (Number) | | | | | |
|-----------------------------|---------|---------|----------|----------|--|
| SSES-related | | | | | |
| Cahaba River (#1) | 1-3-97 | 1-3-97 | N/A | 2-24-97 | |
| Leeds (#3) | 9-2-97 | 9-2-97 | 12-19-97 | 1-14-98 | |
| Leeds (#3A) | 10-1-98 | 10-1-98 | N/A | 11-9-98 | |
| Trussville (#2) | 9-2-97 | 9-2-97 | N/A | 10-31-97 | |
| Village Creek Ph. 1 (#8) | 10-1-98 | 10-1-98 | N/A | 11-9-98 | |
| Village Creek Ph. 2 (#8) | 10-1-98 | 10-1-98 | N/A | 11-9-98 | |
| Valley Creek (#10) | 10-1-99 | 10-1-99 | N/A | 11-3-99 | |
| Shades Creek (#16) | 1-31-03 | 1-31-03 | | | *Awaiting EPA approval |
| Five Mile Creek Ph. 1 (#11) | 2-1-00 | 2-1-00 | N/A | 2-28-00 | |
| Five Mile Creek Ph. 2 (#17) | 1-31-03 | 1-31-03 | | | *Awaiting EPA approval |
| Turkey Creek (#12) | 2-1-01 | 2-1-01 | N/A | 3-14-01 | |
| Prudes Creek (#14) | 7-31-02 | 7-31-02 | | | *Awaiting EPA approval |
| Warrior (#15) | 7-31-02 | 7-31-02 | | | *Awaiting EPA approval |
| CIS-related | | | | | |
| Cahaba River (#5) | 1-30-98 | 1-30-98 | N/A | 11-20-98 | |
| Leeds | N/A | N/A | N/A | | No capacity problems identified in CAR |

| Deliverable Item | Draft Due to EPA | Submitted to EPA | | Approved by EPA | Notes |
|--------------------------------|------------------|------------------|---------|-----------------|---|
| | | Draft | Revised | | |
| Trussville | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Village Creek Ph. 1 | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Village Creek Ph. 2 | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Valley Creek | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Shades Creek | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Five Mile Creek Ph. 1 | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Five Mile Creek Ph. 2 | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Turkey Creek | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Prudes Creek | N/A | N/A | N/A | | No capacity problems identified in CAR |
| Warrior | N/A | N/A | N/A | | No CIS since all lines are less than 18" diameter |
| PIP-related | | | | | |
| Five Mile Creek WWTP (#6) | 4-1-98 | 4-1-98 | N/A | 11-20-98 | |
| Valley Creek WWTP- Sludge (#4) | 12-31-97 | 12-30-97 | N/A | 3-13-98 | |
| Valley Ck. WWTP-PFWWTP(#13) | 1-16-02 | 1-16-02 | | | *Awaiting EPA approval |
| Village Creek WWTP -Sludge(#7) | 7-1-98 | 7-1-98 | N/A | 12-4-98 | |
| Village Creek - PFWWTP (#9) | 5-3-99 | 5-3-99 | N/A | 6-4-99 | |
| Turkey Creek WWTP | N/A | N/A | N/A | | Recommendations completed |

Note: Italicized Dates are Projected Only

"N/A" = Not Applicable to this deliverable

Phase 3

Automatic Diversion Structures

- Watkins Branch was eliminated on July 31, 1995
- Hurricane Branch was eliminated on February 10, 1997
- Horse Farm was eliminated on June 11, 1997
- Barton Branch was eliminated on September 1, 2000
- Tarrant Springs Branch was eliminated on October 27, 2000

Cahaba River Collection System

The Cahaba River Collection System Rehabilitation was completed on April 1, 1999.

The Cahaba River Collection System Capacity Improvement Projects were completed on February 20, 2001.

Five Mile Creek Collection System

The Five Mile Creek Phase 1 Collection System Rehabilitation Upstream of Barton Branch (Contracts 1-7) was completed on May 31, 2004.

The Five Mile Creek Phase 2 Collection System Rehabilitation Downstream of Barton Branch (Contracts 8-20) was completed on June 27, 2006.

The Five Mile Creek Capacity Improvement Projects were completed on August 8, 2001.

Leeds Collection System

The Leeds Collection System was completed on January 1, 2000. The provisions of the Consent Decree applicable to the Leeds Complete Waste Treatment System were terminated April 23, 2012.

Prudes Creek Collection System

The Prudes Creek Collection System was completed on March 31, 2004.

The provisions of the Consent Decree applicable to the Prudes Creek Complete Waste Treatment System were terminated April 29, 2009.

Shades Creek Collection System

The Shades Creek Collection System was completed on August 21, 2006.

Trussville Collection System

The Trussville Collection System was completed on May 1, 1999.

The provisions of the Consent Decree applicable to the Trussville Complete Waste Treatment System were terminated February 23, 2009.

Turkey Creek Collection System

The Turkey Creek Collection System was completed on April 30, 2003.

The provisions of the Consent Decree applicable to the Turkey Creek Complete Waste Treatment System were terminated December 8, 2008.

Valley Creek Collection System

The Valley Creek Collection System was completed on August 30, 2006.

Village Creek Collection System

The West-area projects were completed on August 9, 2001. The East-area projects were completed on March 17, 2004.

Warrior Collection System

The Warrior Collection System was completed on July 16, 2003.

The provisions of the Consent Decree applicable to the Warrior Complete Waste Treatment System were terminated April 16, 2008.

Five Mile Creek WWTP

The Five Mile Creek WWTP Flow Metering and Sampling was completed on February 21, 2000.

Valley Creek WWTP

The Valley Creek WWTP Sludge Digestion was completed on February 26, 2001. Peak Flow Facilities Phase 5 Influent Pump Station was made fully operational on December 18, 2007.

Village Creek WWTP

The Village Creek WWTP Digestion and Dewatering was completed on January 10, 2001.

The Village Creek WWTP Peak Flow Facilities were completed on June 19, 2003.

Remedial Actions: Projected for Upcoming Quarter

Phase 1

Submittal of the monthly *Summary of Unpermitted Discharges* to EPA and the citizen plaintiffs is the only activity under Phase 1 planned for the Second Quarter, 2015.

Concurrent with the *Summary* reports, documentation in support of the subject month's wet-weather related discharges will also be submitted under the requirements of Section XI.

Phase 2

There are no Consent Decree Deliverables projected to be submitted to the EPA during the Second Quarter, 2015.

Phase 3

Cahaba River Collection System

Per the approved WTSCIP amendments No.1 and No. 5, evaluation of the rehabilitation results and performance of the Cahaba River Collection System continues.

A preliminary draft of the Cahaba River Complete Waste Treatment System Consent Decree Termination Plan was submitted on April 6, 2009 with comments due on or about May 20, 2009. The EPA responded with comments in a letter dated April 30, 2009. The Jefferson County Environmental Services Department responded to those comments in a letter dated May 29, 2009. The comments were discussed in a meeting between EPA and JCESD on October 19, 2009 in the EPA's Atlanta office. A revised termination plan was

submitted on January 7, 2013, and the County expects discussions with the EPA and citizen plaintiffs on the proposed plan to continue in the Second Quarter, 2015.

Five Mile Creek Collection System

Per the approved WTSCIP amendments No. 11 & 17, evaluation of the rehabilitation results and performance of the Five Mile Creek Collection System continues.

Leeds Collection System

The provisions of the Consent Decree applicable to the Leeds Complete Waste Treatment System were terminated April 23, 2012.

Prudes Creek Collection System

The provisions of the Consent Decree applicable to the Prudes Creek Complete Waste Treatment System were terminated April 29, 2009.

Shades Creek Collection System

Per the approved WTSCIP amendment No. 16, evaluation of the rehabilitation results and performance of the Shades Creek Collection System continues.

Trussville Collection System

The provisions of the Consent Decree applicable to the Trussville Complete Waste Treatment System were terminated February 23, 2009.

Turkey Creek Collection System

The provisions of the Consent Decree applicable to the Turkey Creek Complete Waste Treatment System were terminated December 8, 2008.

Valley Creek Collection System

Per the approved WTSCIP amendment No. 10, evaluation of the rehabilitation results and performance of the Valley Creek Collection System continues.

Village Creek Collection System

Per the approved WTSCIP amendment No. 8, evaluation of the rehabilitation results and performance of the Village Creek Collection System continues.

Warrior Collection System

The provisions of the Consent Decree applicable to the Warrior Complete Waste Treatment System were terminated April 16, 2008.

Sewer Connection Permits

See Sewer Impacts Report for the First Quarter, 2015 on the following Table II.

**Table II: Sewer Impacts Report
First Quarter, 2015**

| Collection System | Permits Issued this Quarter | Fixtures Permitted this Quarter |
|--------------------------|--|--|
| Cahaba River | 157 | 2,868.05 |
| Five Mile Creek | 100 | 1,703.50 |
| Leeds | 9 | 82.50 |
| Prudes Creek | 0 | 0.00 |
| Trussville | 19 | 430.75 |
| Turkey Creek | 10 | 98.75 |
| Valley Creek | 183 | 4,353.01 |
| Village Creek | 33 | 990.75 |
| Warrior | 1 | 12.00 |
| Total | 512 | 10,539.31 |

Compliance and Non-Compliance with the Consent Decree

To date, the County has complied with the requirements of the Consent Decree with respect to deliverables and construction.

Unpermitted Discharges

Under the *Unpermitted Sewer Discharge Tracking and Reporting Program*, the County reports all known unpermitted discharges from the County-owned and operated sewers and treatment plants. Tracking, reporting and documentation for discharges occurring in the municipal systems are being reported separately from the County's systems. Summary reports are submitted to EPA and the citizen plaintiffs, and placed in the Public Document Repositories, monthly. Additional documentation for the discharge events is also submitted to EPA monthly.

