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METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY

April 29, 2013

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Re: DOJ Case No. 90-5-1-1-09000
Submittal of Quarterly Report

Gentlemen:

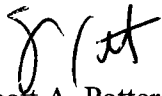
In accordance with the provisions of the Consent Decree, Section XIX (Reporting Requirements), Subsection A, herewith we are transmitting the Quarterly Progress Report which covers the time period from January 1, 2013 through March 31, 2013.

A copy of this report is concurrently being placed in the Public Document Repository (PDR).

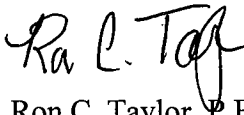
I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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.

If you have any questions concerning these reports please contact me.

Sincerely,



Scott A. Potter, P.E.
Director



Ron C. Taylor, P.E.
Overflow Abatement Program Director
Engineering Division

Cc: Mr. David Tucker, Assistant Director, Operations
Mr. Cyrus Q. Toosi, P.E., Assistant Director / Chief Engineer, Engineering
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Mr. Thomas G. Cross, Associate Director, Metropolitan Department of Law

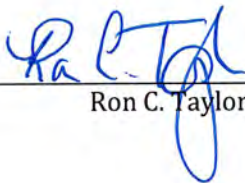
Clean Water Nashville Overflow Abatement Program

Metropolitan Government of Nashville and Davidson County
Department of Water and Sewerage Services

CONSENT DECREE QUARTERLY PROGRESS REPORT

January 1 through March 31, 2013

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.



Ron C. Taylor, P.E., Program Director



Date

Table of Contents

| | | |
|------------------|--|------------|
| Section 1 | Introduction | 1-1 |
| 1.1 | Additional Programs | 1-1 |
| 1.2 | Report Organization | 1-2 |
| Section 2 | <i>Corrective Action Plan/Engineering Report</i>..... | 2-1 |
| 2.1 | Completed CAP/ER Projects..... | 2-1 |
| 2.2 | CAP/ER Projects under Construction..... | 2-1 |
| 2.3 | CAP/ER Projects under Design..... | 2-2 |
| 2.4 | Upcoming CAP/ER Projects | 2-3 |
| Section 3 | <i>Long Term Control Plan</i>..... | 3-1 |
| 3.1 | Completed LTCP Projects..... | 3-1 |
| 3.2 | LTCP Projects under Construction..... | 3-2 |
| 3.3 | LTCP Projects under Design | 3-2 |
| 3.4 | Upcoming LTCP Projects | 3-2 |
| Section 4 | Additional Measures to Maintain Consent Decree Compliance | 4-1 |
| 4.1 | Munn Road Pumping Station..... | 4-1 |
| 4.2 | 2011 Collection System Structural Defect Repair Project..... | 4-1 |
| 4.3 | 2013 Annual Sewer Rehabilitation Project..... | 4-1 |
| Section 5 | Quarterly SSO and Dry Weather CSO Report..... | 5-1 |

List of Tables

| | | |
|-----------|----------------------------|-----|
| Table 5-1 | Quarterly SSO Report | 5-2 |
|-----------|----------------------------|-----|

Appendix

| | |
|------------|--|
| Appendix A | Schedule for Current and Upcoming Projects |
|------------|--|

Section 1

Introduction

On March 12, 2009, the Metropolitan Government of Nashville and Davidson County, Tennessee (Metro), entered into a Consent Decree with the United States and the State of Tennessee. To fulfill the reporting requirements defined in Section XIX.A. of the Consent Decree, Metro has prepared this *Quarterly Progress Report*, which includes the following information:

1. Information on sanitary sewer overflows (SSOs) and dry-weather combined sewer system overflows (CSOs) occurring during the reporting period
2. A description of the work conducted during the reporting period to comply with the requirements of the Consent Decree
3. The anticipated work for the upcoming quarter to comply with the requirements of the Consent Decree
4. Any additional information necessary to demonstrate that Metro is adequately implementing the work

Work, as defined in the Consent Decree, includes all activities that Metro is required to perform under the Consent Decree. For the purposes of this *Quarterly Progress Report*, however, the focus will remain on current and upcoming work related to the *Corrective Action Plan/Engineering Report (CAP/ER)*, the *Long Term Control Plan (LTCP)*, and additional activities to address SSOs and CSOs.

1.1 Additional Programs

Several additional programs, listed below, were also required to be developed or implemented as part of the Consent Decree. Any modifications or updates to these programs will be identified in Section 4 of this report.

- *Spill and Overflow Response Plan (Section VII.C.2)* – Metro continues to operate under the current *Spill and Overflow Response Plan (SORP)*. A review of the SORP will be conducted annually with any proposed changes submitted for EPA review and approval by June 1 each year.
- *Inter-jurisdictional Agreement Program (Section VII.C.3)* – All required inter-jurisdictional agreements are now in place, and Metro will continue to operate under these agreements, including monitoring peak flows received.
- *Capacity Assurance Plan (Section VII.C.4)* – The *Capacity Assurance Plan* will continue to be applied as a tracking/approval tool for new development/flow in the sanitary sewer system (SSS).
- *Pump Station Operation Plan for Power Outages (Section VII.C.5)* – All projects identified in the *Pump Station Operation Plan for Power Outages* were completed prior to the start of the reporting period excluding the Munn Road Pumping Station project. Additional information on the status of this project is discussed in Section 4.

- *Nine Minimum Controls Compliance Plan* (Section VII.D.1) – All elements of the *Nine Minimum Controls Compliance Plan* (NMC) were completed in 2012.
- Supplemental Environmental Projects (Section VIII) – The Supplemental Environmental Projects (SEPs) required in the Consent Decree were completed in 2010.

1.2 Report Organization

This *Quarterly Progress Report* is organized as follows:

Section 1 – Introduction

Section 2 – *Corrective Action Plan/Engineering Report*

Section 3 – *Long Term Control Plan*

Section 4 – Additional Measures to Maintain Consent Decree Compliance

Section 5 – Quarterly SSO and Dry-Weather CSO Report

Section 2

Corrective Action Plan/Engineering Report

To address the conditions causing overflows in their sanitary sewer system, Metro developed a *Corrective Action Plan / Engineering Report (CAP/ER)* that was submitted to EPA and TDEC on September 11, 2011.

The CAP/ER development began with a characterization of Metro's sanitary sewer system through extensive monitoring and modeling to understand the existing system's limitations. The need for improvements to address both current and future sewer capacity needs was then assessed, and potential alternatives were evaluated to select efficient and cost effective solutions. These recommended projects, which include infrastructure rehabilitation, additional conveyance capacity, and storage of wet weather flows, are presented in the CAP/ER.

While EPA and TDEC review the report, Metro continues to move forward with the implementation of several projects presented in the CAP/ER. These projects are described in the following subsections, and a schedule illustrating current and upcoming work on CAP/ER projects is presented as Appendix A.

2.1 Completed CAP/ER Projects

The following projects, discussed in the CAP/ER, were completed prior to the start of the 1st Quarter of 2013:

- Dry Creek Wastewater Treatment Plant Optimization
- Smith Springs Equalization Storage
- Barker Road / Omohundro Equalization Storage Phase I
- West Park Equalization Storage Phase I
- Mill Creek 36-inch Trunk Sewer System Rehabilitation
- Rockwood Conveyance Improvements
- Holiday Travel Park Gravity Conversion
- Whites Creek Wastewater Treatment Plant (WWTP) Optimization and Disinfection Project

2.2 CAP/ER Projects under Construction

The following projects, discussed in the CAP/ER, were under construction during the reporting period:

- Whites Creek Wastewater Pumping Station

Construction of the improvements to the Whites Creek Wastewater Pumping Station and its associated force main began in February 2012. Construction continued throughout the 1st Quarter of 2013 and is expected to continue throughout the upcoming quarter.

- Dodson Chapel Equalization Tank and Wastewater Pumping Station Expansion

Construction of the Dodson Chapel Equalization Tank and Wastewater Pumping Station Expansion began during the 2nd Quarter of 2012 and has continued throughout the reporting period. Construction is anticipated to be complete during the 4th Quarter of 2013.

2.3 CAP/ER Projects under Design

The following projects, discussed in the CAP/ER, were under design during the reporting period:

- Lakewood Water and Sewer Replacement

Design of sewer improvements in the Lakewood area is complete; however, the scope of this project was revised to also include improvements to the water and stormwater systems. Incorporation of the design of those elements is now complete, and easements and right-of-entry permits are currently being obtained for the project area. Advertisement for bids for construction is anticipated to occur during the upcoming quarter. This project represents the first of two phases of work in the Lakewood area.

- West Park Equalization Facility Phase II

In order to minimize impacts to the surrounding neighborhood, Phases II and III of the West Park Equalization Facility were combined into a single design and construction project. Design of this project began in May 2012; however, during preliminary design it was determined that potential flood impacts to adjacent properties require an alternate site for the equalization tank. Following additional investigation, Metro has selected the adjacent park site to accommodate the required storage volume. Design efforts were restarted during the reporting period and are expected to continue in the upcoming quarter. When constructed, the additional improvements at the West Park Equalization Facility are expected to add 21 million gallons of storage and expanded pumping capacity.

- Mill Creek / Opryland Equalization Facility - Phase II

Phase II of the Mill Creek / Opryland Equalization Facility includes the construction of approximately 19 million gallon of additional storage. Design of this project began on August 10, 2012, and is expected to be completed during the upcoming quarter. Advertisement for construction is expected to commence during the 3rd Quarter of 2013.

- Shelby Park Rehabilitation – Area 1 – Virginia Avenue

This rehabilitation project is the first of multiple projects that will be conducted in the Shelby Park Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 54,400 linear feet of gravity sewer and 280 manholes. Design for this project began on September 11, 2012, and is expected to be completed during the upcoming quarter. Advertisement for construction is expected to commence during the 3rd Quarter of 2013.

- **Neely's Bend Rehabilitation**

Based on the condition assessment data collected in the area adjacent to the defined project area, the area targeted for rehabilitation has been extended to include all gravity sewer that directly drains to the Neely's Bend Pump Station. The project area to be evaluated for rehabilitation now includes approximately 31,400 linear feet of gravity sewer and 150 manholes. Design of the sewer rehabilitation improvements in the Neely's Bend project area began on September 27, 2012, and is anticipated to be completed during the upcoming quarter. Construction is anticipated to begin during the 3rd Quarter of 2013.

- **Dodson Chapel Pipe Improvements**

Following the completion of the Rockwood Conveyance Improvements and subsequent updates to the hydraulic model in this area, evaluation of the collection system in the Dodson Chapel Pipe Improvements area indicated that the extents of the proposed project could be reduced while still addressing overflows. The current project consists of increasing the conveyance capacity of approximately 3,400 linear feet of sewer. Design of this project began on October 8, 2012, and will continue throughout the upcoming quarter.

- **Joelton Rehabilitation**

The Joelton Rehabilitation project comprises the evaluation of approximately 38,700 linear feet of gravity sewer and 190 manholes for rehabilitation and repair. Design of this project began on January 2, 2013, and will continue throughout the upcoming quarter.

- **Cowan / Riverside Rehabilitation – Area 1 – Jones Avenue**

This rehabilitation project is the first of multiple projects that will be conducted in the Cowan / Riverside Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 50,300 linear feet of gravity sewer and 270 manholes. Design of this project began on February 4, 2013, and will continue throughout the upcoming quarter.

2.4 Upcoming CAP/ER Projects

The following projects, discussed in the CAP/ER, are anticipated to begin design during the upcoming quarters:

- **Brick Church Pike Pipe Improvements**

The Brick Church Pike Pipe Improvements project consists of increasing the conveyance capacity of the approximately 15,500 linear feet of gravity sewer. Proposals for the design of this project were submitted on January 11, 2013. Discussions with the selected design firm regarding the scope, schedule, and budget are currently underway. Design for this project is anticipated to begin in the 2nd Quarter of 2013.

- **Shelby Park Rehabilitation – Area 2 – Norvel Avenue**

This rehabilitation project is the second of multiple projects that will be conducted in the Shelby Park Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 57,000 linear feet of gravity sewer and 330 manholes. Design for this project is anticipated to begin in the 2nd Quarter of 2013.

- Cowan / Riverside Rehabilitation – Area 2 – Dickerson Pike

This rehabilitation project is the second of multiple projects that will be conducted in the Cowan / Riverside Rehabilitation project area. The area to be evaluated for rehabilitation includes approximately 51,400 linear feet of gravity sewer and 290 manholes. Design for this project is anticipated to begin in the 2nd Quarter of 2013.

- Highway 100 / Tyne Boulevard – Trimble Rehabilitation

The Highway 100 / Tyne Boulevard Pipe Improvements Project, as presented in the CAP/ER, consisted of approximately 18,500 linear feet of conveyance improvements to alleviate overflows and surcharging in the existing gravity sewer. A detailed review of the existing sewer route and flows in the area indicated that rehabilitation to reduce wet weather flows in this area may be a viable option to address overflows. Because of this, the Highway 100 / Tyne Boulevard Pipe Improvements Project is being delayed to allow time for the completion of the Highway 100 / Tyne Boulevard – Trimble Rehabilitation project. The area to be evaluated for rehabilitation includes approximately 51,500 linear feet of gravity sewer and 300 manholes. Design for this project is anticipated to begin in the 3rd Quarter of 2013.

- Davidson and Brook Hollow Rehabilitation

The Davidson and Brook Hollow Rehabilitation project, which is referred to as 622 Davidson Rehabilitation in the CAP/ER, includes the evaluation of approximately 53,800 linear feet of gravity sewer and 300 manholes for rehabilitation. Design for this project is anticipated to begin in the 3rd Quarter of 2013.

In addition to the projects listed above, Metro continues to conduct planning activities for multiple projects including acquiring necessary land to site facilities and collecting sewer condition assessment data.

Section 3

Long Term Control Plan

To reduce the occurrence and impact of combined sewer overflows into the Cumberland River, Metro developed an update to the *Long Term Control Plan* (LTCP), which was submitted to EPA and TDEC on September 11, 2011.

The LTCP followed EPA's *Combined Sewer Overflow Control Policy* in implementing a rigorous process for identifying and evaluating alternatives to reduce combined sewer overflows. Consideration included financial and engineering analyses to develop recommended improvements in conjunction with four key objectives that were established early in the planning process:

- Improve the water quality of the Cumberland River by reducing impacts from combined sewer overflows
- Provide a level of CSO control that results in improvements in water quality that are consistent with the community's use of the Cumberland River
- Align investment in CSO controls to be commensurate with the contribution of CSOs to water quality relative to other sources
- Consider the impact of the overall program cost on the ratepayers in the current economic climate

These goals and objectives were developed based on feedback provided by representatives from MWS, local government, and the community through a public engagement campaign developed to solicit input from affected stakeholders.

Metro met with representatives from EPA and TDEC in October 2012 to receive preliminary feedback on the LTCP. As a result of this meeting, Metro has coordinated with EPA and TDEC to provide additional information pertaining to the proposed LTCP's compliance with Tennessee's water quality criteria. These discussions have been on-going throughout the reporting period.

As review of the LTCP continues, Metro continues to move forward with the implementation of several projects presented in the LTCP. These projects are described in the following subsections, and a schedule illustrating current and upcoming work on LTCP projects is presented as Appendix A.

3.1 Completed LTCP Projects

Although no projects listed in the LTCP were completed during the current reporting period, the following projects, discussed in the LTCP, were completed prior to the start of the 1st Quarter of 2013:

- Broadway Improvements
- Washington CSO Facility Improvements
- Van Buren Improvements

3.2 LTCP Projects under Construction

The following project, discussed in the LTCP, is under construction:

- Driftwood Equalization Basin Expansion

The design of the Driftwood Equalization Basin Expansion was completed during the 2nd Quarter of 2012. Construction of this project commenced on July 10, 2012, and is anticipated to achieve substantial completion during the upcoming quarter.

3.3 LTCP Projects under Design

The following project, discussed in the LTCP, was under design during the reporting period:

- Apex Sewer Corrections

The Apex Sewer Corrections project consists of the replacement or realignment of approximately 1,200 linear feet of gravity sewer in the Washington CSO basin. Design of this project began on March 25, 2013, and will continue throughout the upcoming quarter.

3.4 Upcoming LTCP Projects

No additional LTCP projects are anticipated to begin design until comments on the LTCP are received from EPA and TDEC.

Metro continues to work on the Central Wastewater Treatment Plant Optimization Study, which will evaluate the feasibility of treating additional wet weather flows at the plant.

Section 4

Additional Measures to Maintain Consent Decree Compliance

In addition to the CAP/ER and LTCP projects described in the previous sections, the measures described in the following subsections are related to Metro's on-going Consent Decree compliance.

4.1 Munn Road Pumping Station

A temporary generator continues to be utilized at the Munn Road Pumping Station where Metro has been unable to complete the generator installation. Metro reached an agreement for the necessary property rights in December 2012. Installation of the permanent generator commenced during the reporting period and is anticipated to be completed during the 2nd Quarter of 2013. Until that work is complete, the temporary generator located at this site will continue to receive priority attention for activation, as necessary.

4.2 2011 Collection System Structural Defect Repair Project

The 2011 Collection System Structural Defect Repair Project was developed to address structural defects observed in the Whites Creek Wastewater Treatment Plant service area. For this project, approximately 24 point repairs will be made, and 7,500 feet of 8 to 18-inch diameter sewer will undergo cured-in-place pipe lining. This project was advertised for bids for construction on October 17, 2012, and construction activities began on February 18, 2013. Construction is anticipated to continue throughout the upcoming quarter.

4.3 2013 Annual Sewer Rehabilitation Project

Design of the 2013 Annual Sewer Rehabilitation Project is anticipated to commence during the upcoming quarter. For this project, which extends throughout the service area, approximately 130 pipe segments will be evaluated for repair or rehabilitation. These sewers, which are located in areas outside of CAP/ER rehabilitation areas, were identified as high-priority sewers for evaluation based upon their observed condition as well as their potential consequence of failure.

Section 5

Quarterly SSO and Dry Weather CSO Report

During the 1st Quarter of 2013, Metro experienced 105 SSOs, as listed in **Table 5-1**.

No dry-weather CSOs occurred during the reporting period.

Table 5-1 Quarterly SSO Report

| Quarterly SSO Report January 1 through March 31, 2013 | | | | | | | | | |
|--|----------------|-------------------|------------------|----------------------|----------------|---------------------|------------------------------------|-----------------------|-----------------|
| Event Start Date | Event End Date | Rainfall (inches) | Duration (hours) | Overflow Volume (MG) | Overflow Cause | Location Manhole ID | Location | Unpermitted Discharge | Building Backup |
| 05-Jan-13 | 05-Jan-13 | 0.00 | 1.50 | 0.00001 | Blockage | 04315003 | 102 Wychewood Cv. | No | No |
| 10-Jan-13 | 11-Jan-13 | 0.66 | 40.50 | 3.735 | Rainfall | 06915003 | Whites Creek SPS | Yes | No |
| 10-Jan-13 | 10-Jan-13 | 0.67 | 3.92 | 0.052 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 12-Jan-13 | 18-Jan-13 | 4.14 | 135.33 | 17.176 | Rainfall | 06915003 | Whites Creek SPS | Yes | No |
| 12-Jan-13 | 14-Jan-13 | 4.76 | 20.75 | 0.6 | Rainfall | 08709040 | Farmingham Woods SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 3.28 | 29.00 | 0.01 | Rainfall | 09012110 | 6303 Henry Ford Dr. | No | No |
| 13-Jan-13 | 14-Jan-13 | 2.56 | 28.00 | 0.1 | Rainfall | 07309066 | 2301 Cooper Ter. | No | No |
| 13-Jan-13 | 14-Jan-13 | 2.56 | 23.00 | 0.1 | Rainfall | 06001013 | 3258 Brick Church Pk. | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 2.66 | 38.00 | 0.1 | Rainfall | 09510050 | 501 Bismark Dr. | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 1.59 | 3.00 | 0.0001 | Rainfall | 14702048 | 420 Coventry Dr. | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 1.42 | 7.00 | 0.001 | Rainfall | 13007024 | 4302 Harding Rd. | No | No |
| 13-Jan-13 | 13-Jan-13 | 2.63 | 6.00 | 0.001 | Rainfall | 08602058 | 428 Old Lebanon Dirt Rd. | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.55 | 7.00 | 0.001 | Rainfall | 05911027 | 700 Rowan Dr. | No | No |
| 13-Jan-13 | 13-Jan-13 | 2.56 | 3.50 | 0.0001 | Rainfall | 08312050 | 2600 Brittany Dr. | No | Yes |
| 13-Jan-13 | 13-Jan-13 | 1.42 | 0.50 | 0.001 | Rainfall | 11706061CO | 2857 Wellesley Dr. | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.76 | 9.00 | 0.1 | Rainfall | 08011001 | Bordeaux Hospital SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 1.79 | 17.50 | 1.866 | Rainfall | 13609002 | Smith Springs SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 2.66 | 9.50 | 0.213 | Rainfall | 09608006 | McCrorry Creek SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 2.81 | 16.67 | 1.76 | Rainfall | 04312004 | Vandiver SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 3.28 | 13.42 | 3.358 | Rainfall | 09105090 | West Park SPS | Yes | No |
| 13-Jan-13 | 15-Jan-13 | 5.24 | 5.75 | 1.396 | Rainfall | 03411009 | Dry Creek SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 5.24 | 14.00 | 1.749 | Rainfall | 05116016 | Loves Branch SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 5.24 | 5.17 | 0.698 | Rainfall | 05205001 | Gibson Creek SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 3.28 | 14.92 | 0.227 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 4.44 | 26.00 | 1 | Rainfall | 05216026 | Neelys Bend SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.56 | 9.00 | 0.583 | Rainfall | 06213035 | Williamson Ferry SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 3.27 | 10.50 | 0.2 | Rainfall | 10203057 | Cleeces Ferry SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 4.44 | 11.00 | 0.2 | Rainfall | 05213002 | Madison Heights SPS | Yes | No |
| 13-Jan-13 | 15-Jan-13 | 3.25 | 35.08 | 5.073 | Rainfall | 09409003 | Browns Creek SPS / Visco Dr. | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 1.28 | 1.00 | 0.5 | Rainfall | 17609001 | Hurricane Creek SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 4.44 | 14.00 | 0.2 | Rainfall | 05207007 | Berwick Trail SPS / Center St. | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.76 | 3.42 | 0.02 | Rainfall | 08101015 | River Drive SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 3.27 | 5.50 | 0.2 | Rainfall | 09015045 | Sunliner SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.76 | 8.83 | 1.239 | Rainfall | 09104025 | 28th Avenue SPS / Centennial Blvd. | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 1.97 | 22.00 | 0.2 | Rainfall | 01416001 | Joelton SPS | Yes | No |

Quarterly SSO Report

January 1 through March 31, 2013

| Event Start Date | Event End Date | Rainfall (inches) | Duration (hours) | Overflow Volume (MG) | Overflow Cause | Location Manhole ID | Location | Unpermitted Discharge | Building Backup |
|------------------|----------------|-------------------|------------------|----------------------|----------------|---------------------|--------------------------|-----------------------|-----------------|
| 13-Jan-13 | 13-Jan-13 | 4.44 | 9.50 | 0.8 | Rainfall | 06208003 | Hidden Acres SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.63 | 1.58 | 0.005 | Rainfall | 08601134 | Dodson Chapel SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 1.97 | 7.00 | 0.1 | Rainfall | 16009013 | East Lakemont SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 2.84 | 10.25 | 0.25 | Rainfall | 07014003 | Fairway Center SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 2.34 | 11.00 | 0.1 | Rainfall | 09506004 | Mill Creek SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 1.97 | 1.75 | 0.05 | Rainfall | 16002032 | South Oak Hill SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 1.99 | 6.25 | 0.1 | Rainfall | WLS053A020 | Langford Farms SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 1.73 | 1.00 | 0.005 | Rainfall | 15008009 | Towne Village SPS | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 3.28 | 6.00 | 0.001 | Rainfall | 10314008 | 47 Brookwood Terrace | No | No |
| 13-Jan-13 | 14-Jan-13 | 3.28 | 28.33 | 2.042 | Rainfall | 09011002 | 516 Basswood Ave. | Yes | No |
| 13-Jan-13 | 18-Jan-13 | 3.69 | 108.34 | 47.022 | Rainfall | 08410007 | 149 Barker Rd. | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 2.56 | 16.42 | 1.42 | Rainfall | 07114041 | Cowan St. SPS | Yes | No |
| 13-Jan-13 | 14-Jan-13 | 5.24 | 15.00 | 0.001 | Rainfall | 04309041 | 616 N Dupont Avenue | No | No |
| 13-Jan-13 | 14-Jan-13 | 2.56 | 28.00 | 0.01 | Rainfall | 07306012 | 2400 Cooper Ln. | No | No |
| 13-Jan-13 | 13-Jan-13 | 2.56 | 10.00 | 0.001 | Rainfall | 05010029 | 3438 Briley Park Blvd. N | Yes | No |
| 13-Jan-13 | 13-Jan-13 | 2.56 | 10.00 | 0.001 | Rainfall | 05013010 | 3300 Briley Park Blvd. S | Yes | No |
| 13-Jan-13 | 15-Jan-13 | 2.56 | 47.00 | 0.001 | Rainfall | 08204099 | 1006 Apex St. | No | No |
| 13-Jan-13 | 14-Jan-13 | 3.28 | 25.00 | 0.001 | Rainfall | 11507059 | 622 Davidson St. | No | No |
| 14-Jan-13 | 14-Jan-12 | 2.66 | 3.00 | 0.001 | Rainfall | 08606106 | 5289 Old Hickory Blvd. | Yes | No |
| 14-Jan-13 | 14-Jan-13 | 2.38 | 3.00 | 0.001 | Rainfall | 09407003 | 1400 Pumping Station Rd. | Yes | No |
| 14-Jan-13 | 14-Jan-13 | 2.38 | 4.00 | 0.001 | Rainfall | 09407004 | 0 Cave Rd. | Yes | No |
| 15-Jan-13 | 16-Jan-13 | 0.73 | 9.91 | 0.029 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 16-Jan-13 | 16-Jan-13 | 1.03 | 22.00 | 0.1 | Rainfall | 09510050 | 501 Bismark Dr. | Yes | No |
| 16-Jan-13 | 16-Jan-13 | 1.02 | 3.50 | 0.001 | Rainfall | 10616031 | 416 Hollydale Dr. | Yes | No |
| 16-Jan-13 | 16-Jan-13 | 1.06 | 12.50 | 1.069 | Rainfall | 13609002 | Smith Springs SPS | Yes | No |
| 16-Jan-13 | 16-Jan-13 | 0.37 | 0.75 | 0.002 | Rainfall | 09608006 | McCrary Creek SPS | Yes | No |
| 16-Jan-13 | 16-Jan-13 | 0.87 | 4.00 | 0.001 | Rainfall | 09407003 | 1400 Pumping Station Rd. | Yes | No |
| 16-Jan-13 | 16-Jan-13 | 0.87 | 4.00 | 0.001 | Rainfall | 09407004 | 0 Cave Rd. | Yes | No |
| 18-Jan-13 | 18-Jan-13 | 0.00 | 11.00 | 0.001 | Blockage | 06304015 | 118 Mt. Vernon Dr. | No | No |
| 20-Jan-13 | 20-Jan-13 | 0.00 | 6.50 | 0.001 | Blockage | 17308018CO | 1153 Streamdale Pt. | No | No |
| 25-Jan-13 | 25-Jan-13 | 0.42 | 1.00 | 0.001 | Blockage | 08313015 | 3400 John Merritt Blvd. | Yes | No |
| 28-Jan-13 | 28-Jan-13 | 0.00 | 0.50 | 0.0001 | Blockage | 04312001 | 300 Rio Vista Dr. | Yes | No |
| 29-Jan-13 | 29-Jan-13 | 0.00 | 1.00 | 0.001 | Blockage | WMN030E004 | 502 N. Woods Ct. | Yes | No |
| 29-Jan-13 | 29-Jan-13 | 0.00 | 0.10 | 0.000005 | Mechanical | 09608006 | McCrary Creek SPS | Yes | No |
| 30-Jan-13 | 31-Jan-13 | 1.27 | 25.00 | 0.1 | Rainfall | 13007002 | 803 Lynnwood Blvd. | Yes | No |
| 30-Jan-13 | 30-Jan-13 | 0.99 | 1.25 | 0.0001 | Blockage | 08401060 | 1218 Rosebank Ave. | No | Yes |

Quarterly SSO Report

January 1 through March 31, 2013

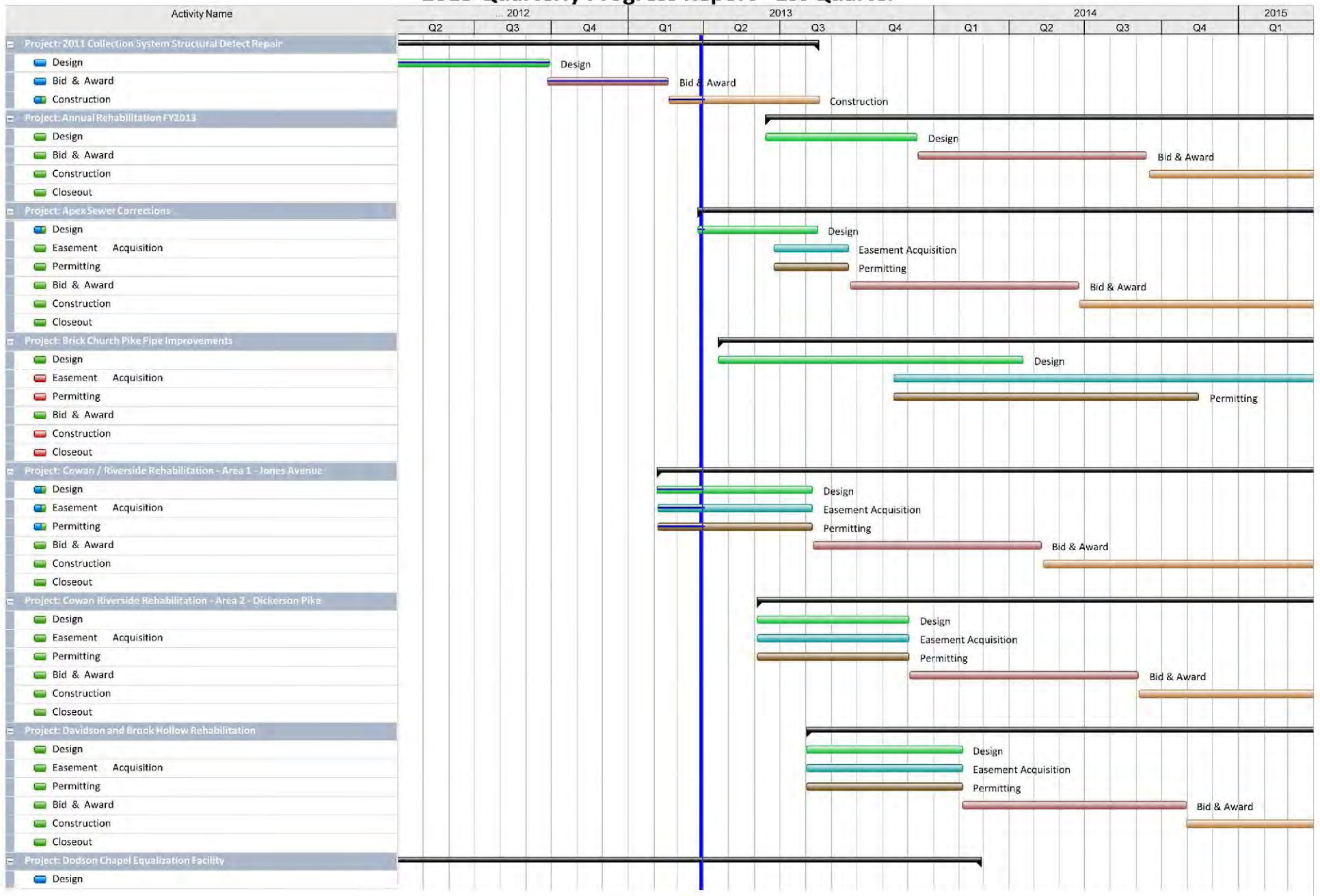
| Event Start Date | Event End Date | Rainfall (inches) | Duration (hours) | Overflow Volume (MG) | Overflow Cause | Location Manhole ID | Location | Unpermitted Discharge | Building Backup |
|------------------|----------------|-------------------|------------------|----------------------|----------------|---------------------|--------------------------|-----------------------|-----------------|
| 30-Jan-13 | 30-Jan-13 | 0.99 | 1.00 | 0.001 | Blockage | 06008011CO | 212 Broadmoor Dr. | Yes | No |
| 30-Jan-13 | 30-Jan-13 | 1.51 | 0.50 | 0.0003 | Rainfall | 09608006 | McCrorry Creek SPS | Yes | No |
| 30-Jan-13 | 31-Jan-13 | 1.09 | 24.09 | 2.966 | Rainfall | 06915003 | Whites Creek SPS | Yes | No |
| 30-Jan-13 | 30-Jan-13 | 1.13 | 3.17 | 0.03 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 30-Jan-13 | 30-Jan-13 | 1.55 | 12.00 | 0.1 | Rainfall | 01416001 | Joelton SPS | Yes | No |
| 30-Jan-13 | 30-Jan-13 | 1.51 | 2.42 | 0.167 | Rainfall | 08410007 | 149 Barker Rd. | Yes | No |
| 01-Feb-13 | 01-Feb-13 | 0.00 | 0.92 | 0.078 | Control Fuse | 08601134 | Dodson Chapel SPS | Yes | No |
| 03-Feb-13 | 03-Feb-13 | 0.01 | 2.00 | 0.00001 | Blockage | 13413084 | 271 Garry Dr. | No | No |
| 06-Feb-13 | 06-Feb-13 | 0.00 | 1.00 | 0.001 | Blockage | 08303022 | 1301 Porter Rd. | No | No |
| 14-Feb-13 | 14-Feb-13 | 0.00 | 4.00 | 0.00001 | Blockage | 18305032CO | 804 Colo Place | No | No |
| 18-Feb-13 | 18-Feb-13 | 0.31 | 1.00 | 0.0001 | Blockage | 05904094 | 3172 Bridgepoint Dr. | Yes | No |
| 18-Feb-13 | 18-Feb-13 | 0.00 | 1.00 | 0.001 | Controller | 08505015 | Heartland Drive SPS | Yes | No |
| 21-Feb-13 | 21-Feb-13 | 0.70 | 1.00 | 0.001 | Blockage | 12910024 | 6607 Ellesmere Rd. | No | No |
| 24-Feb-13 | 24-Feb-13 | 0.00 | 1.25 | 0.00001 | Blockage | 05809085 | 2600 Jordon Ridge Dr. | No | No |
| 25-Feb-13 | 25-Feb-13 | 0.00 | 2.00 | 0.0005 | Blockage | 04316001 | River Retreat SPS | Yes | No |
| 05-Mar-13 | 06-Mar-13 | 0.92 | 12.83 | 1.318 | Rainfall | 06915003 | Whites Creek SPS | Yes | No |
| 05-Mar-13 | 05-Mar-13 | 1.20 | 1.92 | 0.01 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 08-Mar-13 | 08-Mar-13 | 0.00 | 2.00 | 0.00001 | Blockage | 09611029 | 641 Truxton Ct. | Yes | No |
| 10-Mar-13 | 10-Mar-13 | 0.05 | 1.00 | 0.00001 | Blockage | 11902042 | 105 Evelyn Dr. | No | No |
| 11-Mar-13 | 12-Mar-13 | 0.94 | 14.50 | 1.413 | Rainfall | 06915003 | Whites Creek SPS | Yes | No |
| 11-Mar-13 | 11-Mar-13 | 1.08 | 2.83 | 0.02 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 11-Mar-13 | 11-Mar-13 | 1.18 | 11.50 | 0.1 | Rainfall | 01416001 | Joelton SPS | Yes | No |
| 12-Mar-13 | 12-Mar-13 | 0.00 | 0.75 | 0.001 | Blockage | 14913009 | 4759 Bowfield Dr. | Yes | No |
| 13-Mar-13 | 13-Mar-13 | 0.00 | 2.50 | 0.001 | Blockage | 13413096 | 4803 Lexington Dr. | No | No |
| 15-Mar-13 | 16-Mar-13 | 0.00 | 4.50 | 0.001 | Blockage | 06304011 | 121 Gayle Dr. | No | No |
| 16-Mar-13 | 16-Mar-13 | 0.00 | 1.00 | 0.0001 | Blockage | 13510058 | 2138 Murfreesboro Pk. | No | No |
| 18-Mar-13 | 18-Mar-13 | 0.93 | 1.25 | 0.004 | Rainfall | 10210012 | Davidson Branch SPS | Yes | No |
| 19-Mar-13 | 19-Mar-13 | 0.00 | 1.00 | 0.001 | Blockage | 13316032 | 4900 Dolphin Dr. | No | No |
| 21-Mar-13 | 21-Mar-13 | 0.00 | 0.50 | 0.0001 | Blockage | 10812014 | 1304 Quail Valley Rd. | No | No |
| 22-Mar-13 | 22-Mar-13 | 0.00 | 1.00 | 0.00001 | Blockage | 15005025CO | 2845 Creekview Dr. | No | No |
| 22-Mar-13 | 22-Mar-13 | 0.00 | 1.25 | 0.0001 | Blockage | 16106049 | 675/671 Huntington Pkwy. | No | Yes |
| 28-Mar-13 | 28-Mar-13 | 0.00 | 1.50 | 0.001 | Blockage | 08004037 | 1515 County Hospital Rd. | Yes | No |
| 28-Mar-13 | 28-Mar-13 | 0.00 | 2.50 | 0.001 | Blockage | 13413081 | 276 Garry Dr. | No | No |
| 29-Mar-13 | 29-Mar-13 | 0.00 | 1.50 | 0.001 | Blockage | 08008042 | 3224 Panorama Dr. | No | Yes |

Appendix A

Schedule for Current and Upcoming Projects

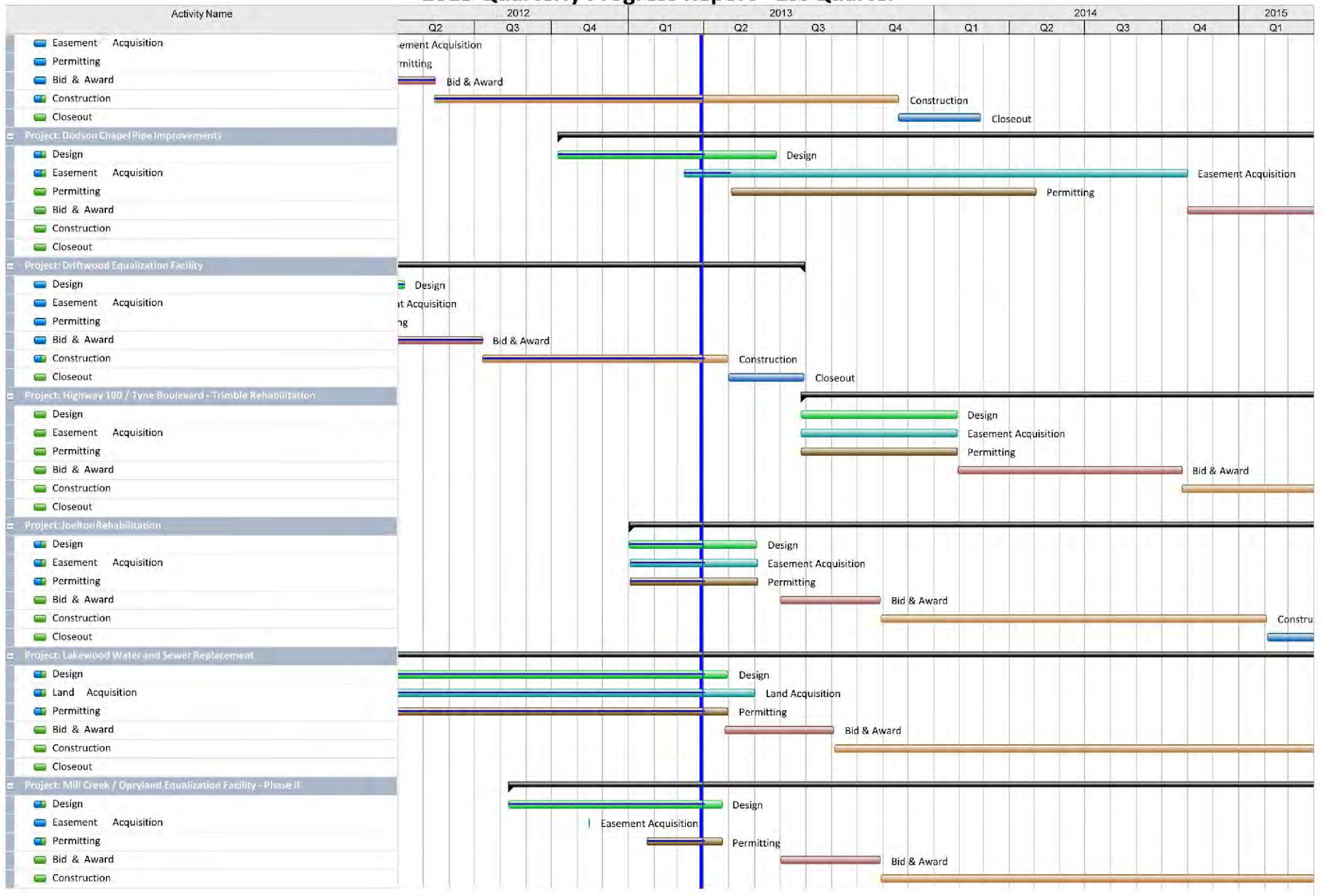
Nashville Overflow Abatement Program 2013 Quarterly Progress Report - 1st Quarter

4/25/13



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4/25/13



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