

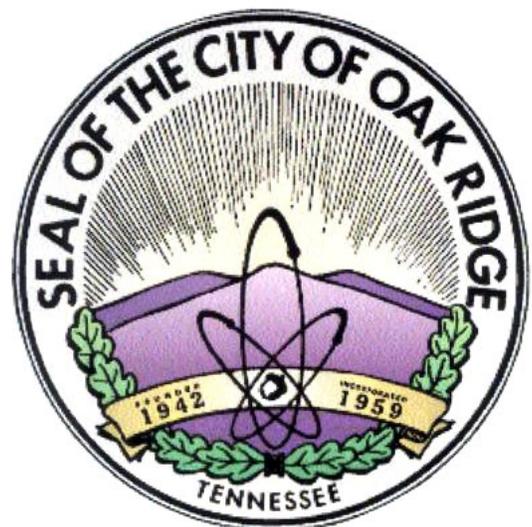
Eighth Quarterly Report

**United States Environmental Protection Agency
Administrative Order No. CWA-04-2010-4772**

**Period
July 1, 2012 –
September 30, 2012**

October 2012

Submitted by:



Eighth Quarterly Report

United States Environmental Protection Agency Administrative Order No. CWA-04-2010-4772

**Period:
July 1, 2012 – September 30, 2012**

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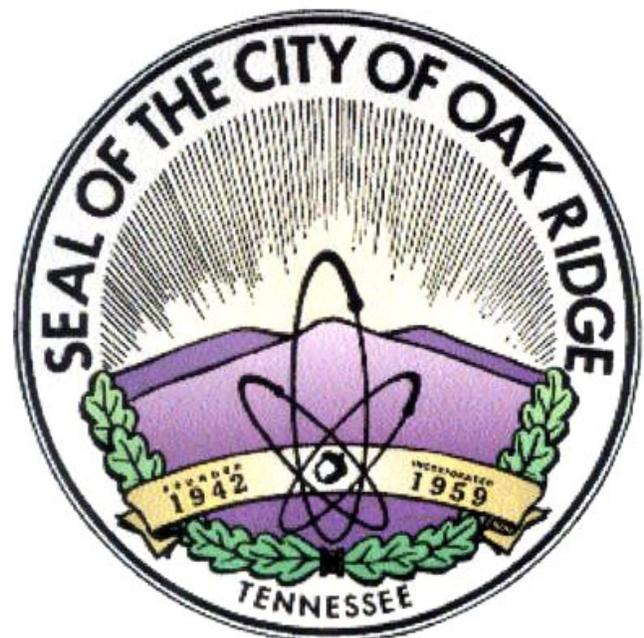
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A.	Y-12 Quarterly Report
B.	Eighth Quarter SSO's



SECTION I:

OVERVIEW OF ORDER



SECTION I

OVERVIEW OF ORDER

On September 28, 2010, an Administrative Order issued by the United States Environmental Protection Agency (EPA) to the City of Oak Ridge, which was received on September 30, 2010. The Order cited numerous incidents of Sanitary Sewer Overflows (SSO's). There were four (4) general sections of the Order outlining activities required of the City with a defined schedule for compliance. Those areas are as follows:

Sanitary Sewer Overflows (Section A)

Within two (2) months (November 30, 2010), a list of SSO's which occurred in the previous two (2) years, were required to be submitted. *That list was submitted on time.*

System Evaluation and Rehabilitation Plans (SERP) (Section B)

Within six (6) months (March 30, 2011), the City was to develop work plans for Capacity Assessment of the system and a Sewer System Evaluation Survey (SSES). Following the Capacity Assessment Work Plan, the City must develop a Capacity Assessment Report in accordance with the work plan. That report was due to the EPA within one (1) year of approval of the work plan (May 3, 2012). *That report was submitted as required.* The execution of



the SSES work plan was completed within one (1) year of approval. *The results of the evaluation survey were submitted within two (2) months after completion of the survey, as required by the Order.* Two (2) months following the results, a Remediation Plan was submitted for review and approval. These documents have been approved by the EPA. The Remediation Plan is being executed. This activity is scheduled to be completed in mid-2015.

Sanitary Sewer Overflow Response Plan (SORP) (Section C)

Within six (6) months (Second Quarter), the City was to submit a Response Plan detailing procedures to be taken relative to any overflows occurring in the sewer system. *The SORP was approved by EPA during the third quarter of the Order.* The SORP has been reviewed and updated, as required.

Management, Operation, and Maintenance Programs (MOM) (Section D)

The MOM portion of the Order has many components. The general topics are as follows:

- Information Management System (IMS) Programs
- Engineering
- Pump Station Operations Programs
- Maintenance Programs

The schedule for submittals varies for the different components of the MOM portion of the Order. *All of the sections have been submitted as required.*



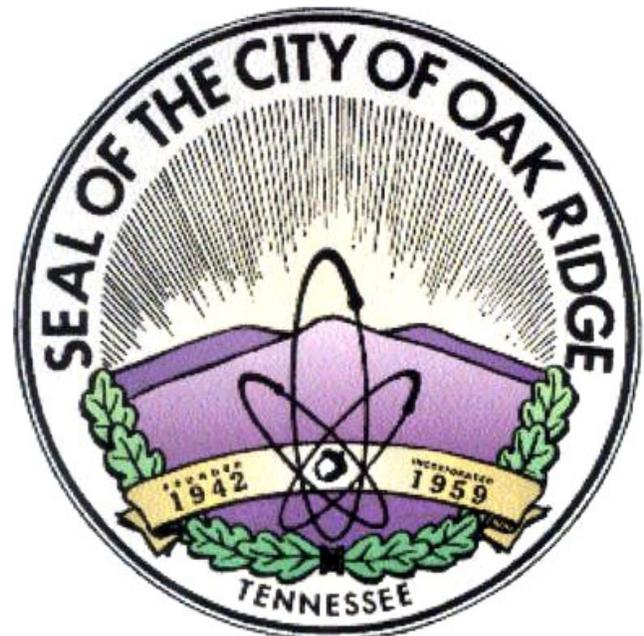
In addition to the above referenced requirements of the Order, the City must submit quarterly reports to the EPA documenting the activities of the quarter. These reports are due on the 28th day of the month following the end of each quarter. The Order outlines the format of these reports. *The first seven (7) quarterly reports were submitted on time.*

Future Quarterly Reports will not have the historical information as the first eight.



SECTION II:

ACTIONS DURING THE EIGHTH QUARTER



SECTION II

ACTIONS DURING THE EIGHTH QUARTER

A. Introduction

As stated earlier, the Order has four (4) major sections. Section A was completed on schedule with no further activity required. Section B had activities during the seventh quarter. Section C activities were completed earlier and updated this quarter. Section D will have continuing activities.

Section B Activities (System Evaluation and Rehabilitation Plans)

In 1991, the City of Oak Ridge began a program to eliminate overflows at the influent pumping station of the wastewater treatment plant. That program was to expand the hydraulic capacity of the wastewater treatment plant and reduce infiltration/inflow (I/I) within the system. Prior to the issuance of the Order, the treatment plant capacity was expanded to 30.0 million gallons per day (MGD). The "old program" (prior to the Order) sewer rehabilitation projects have been designated by letters. Contracts through "N" were constructed.



During the seventh quarter, work under the "old program" continued. Two (2) rehabilitation projects were placed under construction during the fifth quarter. These projects are in the Emory Valley Sewer Shed. Construction was completed on one of the projects during the seventh quarter, and the other project was completed during the eighth quarter. The only construction activities remaining on the two (2) projects are completing final punch list items which should be complete in the early part of the ninth quarter.

Activities of Section B clearly show that the East Plant Sewer Shed was the one with the highest priority for rehabilitation. Design for rehabilitation in five (5) mini-basins was completed in the seventh quarter. Two (2) of the five (5) mini-basins have been advertised and received bids in the eighth quarter. The lowest and most responsible bidder will be recommended to the City Council for approval early in the ninth quarter. It is anticipated that the design of rehabilitation projects for the remainder of the East Plant Sewer Shed will be authorized to meet the overall program schedule.



Section C Activities (Sanitary Sewer Overflow Response Plan-SORP)

In the third quarter, EPA approved the SORP which details the City procedures in responding to any overflows occurring in the sewer system. During the eighth quarter, the City reviewed and updated the SORP with Addendum #1. The City submitted the addendum to EPA for review and approval. EPA approved Addendum #1 in this quarter.

Section D Activities (Management, Operations, and Maintenance Programs)

1. Information Management System

- 598 weekly preventative maintenance work orders generated and completed
- 35 pump station inspection work orders for rain events (4 occurred with preventative maintenance inspections)
- 7 work orders for the replacement of pump station control panels
- 36 work orders for the maintenance crew (other than preventative maintenance, rain events and control panel replacement)
- Total-to-date of 2,366 work orders generated in the Infor system for the WWTP maintenance crew
- Total-to-date of 638 work orders generated in the Infor system by the Call Center
 - 309 work orders generated during the period of July 2012 through September 2012
- Preliminary work continues for the gravity sewer implementation. During the reporting period employee, tools and standing work order information was input into Infor DEV so that crew training can take place during October and November once the manhole assets are uploaded from the GIS.



- During late August, three candidates were interviewed for the GIS Specialist position, with an offer being extended and accepted during September. The GIS Specialist began work on October 8, 2012 and will have an office located in the Public Works Department.

2. Engineering Programs

- **Pump Stations:**
During the past twelve months, by-pass pumping connections have been installed at twenty-one pump stations utilizing a contractor and the wastewater maintenance crew. By-pass pumping connections will be installed at the remaining pump stations when they are replaced or updated. Oak Ridge City Council approved Resolution #2-13-2012 on February 13, 2012 for a total cost of \$149,253 for the purchase two (4" and 8" portable standby pumps. The two sizes of pumps were required for the City to handle the different pumping requirements throughout the City.

During this reporting period (July 2012 through September 2012) a metal storage shed was ordered to house the by-pass pumping equipment. A concrete pad was poured and construction of the storage shed began in September with expected completion by October 31, 2012.

The City of Oak Ridge continues the process of replacing the control panels at twenty-three (23) pump stations, as part of the sewer system upgrade in compliance with the EPA Administrative Order. The existing control panels have met their useful life and contain obsolete equipment which is not capable of supporting telemetry or Supervisory Control and Data Acquisition (SCADA) systems. It is planned for the City to purchase and install a SCADA system within the next twelve months.



The new panels are capable of tracking information on the station pumps and equipment for preventative maintenance purposes. Once installed, the SCADA system will notify personnel in the event of a problem to help prevent sewer system overflows. Ultimately, all information will be fed into the Infor IMS. The panels are equipped with electric receptacles capable of connecting to a portable power generator to operate the stations during a power outage.

During this reporting period (July 2012 through September 2012) the Wastewater Maintenance Crew installed seven (7) control panels at specific pump stations. Following is a listing of the work order information from the Infor IMS of the control panels that were installed during the reporting period.



**CITY OF OAK RIDGE, TENNESSEE
 CONTROL PANEL INSTALLATION - SEWER PUMP STATIONS
 7/1/2012 THROUGH 9/30/2012**

Work Order	Description	Equipment	Equipment Description
12746	REPLACE CONTROL PANEL Peach Orchard	PS:W8-B13	Peach Orchard, 105 WEDGEWOOD RD
12748	REPLACE CONTROL PANEL Radisson Cove	PS:E29-P26	Radisson Cove, 21 RADISSON COVE
13351	REPLACE CONTROL PANEL Rolling Links	PS:E29-Q26	Rolling Links, 51 ROLLING LINKS BOULEVARD
13846	REPLACE CONTROL PANEL WATO	PS:E12-E24	WATO, 113 EASTBURN LN
13847	REPLACE CONTROL PANEL Oak Hills	PS:W17-E2W	Oak Hills, 2892 OAK RIDGE TURNPIKE 2
13848	REPLACE CONTROL PANEL Warehouse Road	PS:E13A-F20	Warehouse Road, 504 WAREHOUSE RD
14459	REPLACE CONTROL PANEL Centennial Bluff	PS:W26B-R26	Centennial Bluff, 300A CENTENNIAL BLUFF BLVD



3. Operations

- **Fats, Oils, and Grease**

Quick Stats:

- a. 99 establishments in program
- b. 1 establishment currently non-compliant – pending further action
- c. 1 establishment obtained tank certification – was non-compliant last quarter report
- d. 5 additional City Staff from PW and CED have become certified inspectors of FOG
(Tony Morris, David Patterson, Matthew Widner, Rick Irwin, Alicia Bailey)

City of Oak Ridge Program Coordination updates:

- a. Updates to MMS continues
- b. New revised Waste Hauler Agreements are being received by Oct 31
- c. Prioritized FSE list is being completed by PW
- d. Linking new building permits to the FOG program for food service establishments (FSE) as certificate of occupancy requirement

- **Collection**

- Emory Valley Sewer Shed,
 - City crews have finished post-construction smoke testing the entire sewer shed.
 - City crews began cleaning and performing CCTV activities.
 - City crews finished the post-construction smoke testing activities in the Emory Valley Sewer Shed with a total of 111,438' for this quarter.
 - During the smoke test city crews replaced a total of 38 broken or missing sewer lateral clean out caps.



- The city crews also handed out 61 smoke testing sewer results notices, notifying home owners of repairs that needed to be made to their sewer lateral clean out assembly. The city's codes department followed up on these notices resulting in 56 repaired clean out assemblies.
- City crews are planning to smoke test the East Plant Sewer Shed next spring as construction contract work finishes in that sewer shed.
- Sewer Easements,
 - City crews have cleared a total of 19,215' of sewer easement making way for cleaning, CCTV work and smoke testing.
- Cleaning and CCTV,
 - City crews began cleaning and performing CCTV inspection in the Emory Valley sewer shed once the smoke testing was completed. Crews will be cleaning and viewing lines that were not rehabbed by the contractor. The contractor will be responsible for the cleaning and viewing those sewer mains. As of this quarter the city has cleaned 16,363' and viewed 25,095'
- Ground Water Monitoring
 - City personnel continue to check 16 manhole locations that are set up for monitoring the level of ground water. These locations were checked this quarter a total of 9 times.

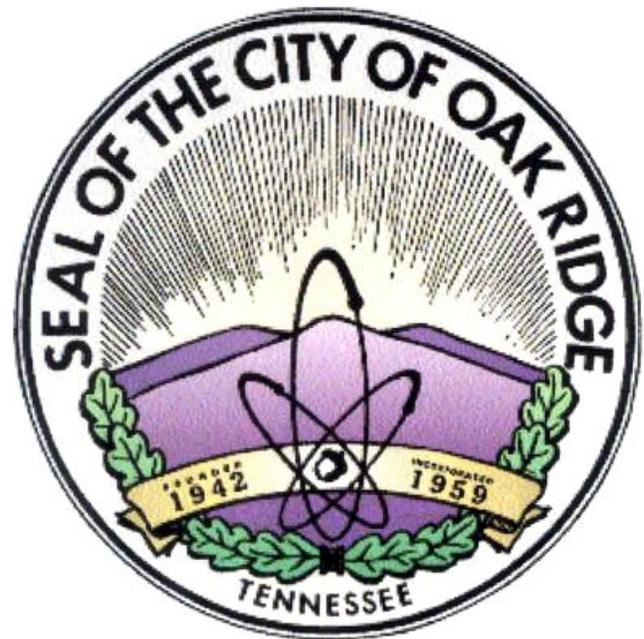


- Flow Metering
 - City personnel continue to monitor the flow of the sewer during rain and dry weather. There are currently 21 meters strategically located throughout the city. The Emory Valley Sewer Shed has flow meters installed for post construction flows and the East Plant Sewer Shed has flow meters installed for preconstruction flow monitoring.
- Rain Gauges,
 - City personnel continue to read and record rainfall data from rain gauges located at 3 locations in the city representing the East, West and center of town. The city also utilizes the NNOA weather service for rainfall totals and rain events.
- Rain Events
 - For this quarter the City of Oak Ridge has had a total of 35 rain events and a total of 15 SSO's reported.
- Rainfall Data
 - Monthly rainfall amounts from the NOAA weather service for this quarter.
 - July 5.96”
 - August 2.89 “
 - September 7.17”
- SSO'S
 - Total of 15, SSO's reported this quarter.
 - 13 of the SSO's occurred during a rainfall of 5” in a 24 hr period 9/17/12-9/18/12.
 - 2, SSO'S that were reported were not due to rainfall.



SECTION III:

**OTHER GENERAL
COMMENTS**



SECTION III

OTHER GENERAL COMMENTS

The City has been extremely active over the first eight quarters of the Administrative Order. To date, all requirements have been met both for content and timeliness.

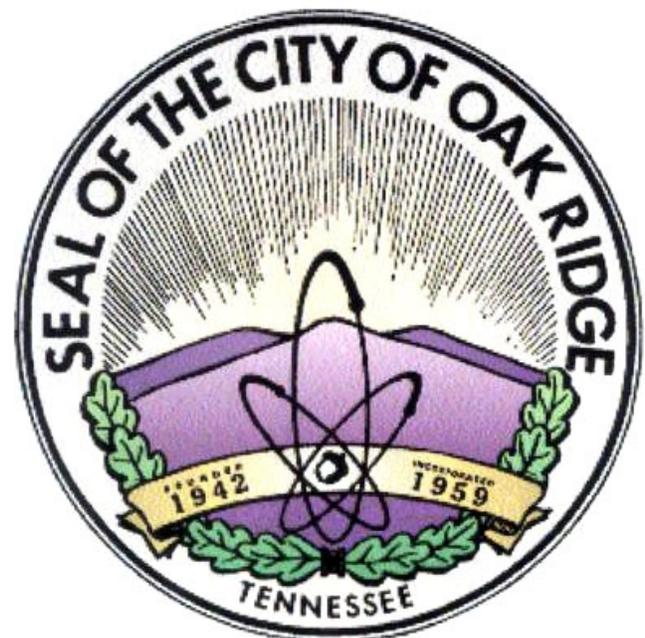
The City and EPA have had discussions concerning the National Nuclear Security Administration's (NNSA) Y-12 facility. The City recognizes they own their collection system and hold its permit. However, the Y-12 facility (an independent customer) operates at a level higher than city or state government. That facility, from a practical perspective, is not the same as any other industrial customer. This situation is one where the City and EPA should collaborate to affect a timely solution to the matter.

The Y-12 quarterly report is attached as Appendix A.



SECTION IV:

**SSO'S DURING EIGHTH
QUARTER**



SECTION IV

SSO'S DURING EIGHTH QUARTER

During the eighth quarter, there were thirteen (13) storm events and two (2) non-storm related events. Appendix B contains the report sheets for each overflow that occurred during the eighth quarter for whatever the reason. These sheets meet the criteria set forth in Section 18 of the Order, which includes:

- Date of event
- Specific location
- Estimated flow rate
- Time event started and finished
- Estimated total flow volume
- Rainfall event (in/day)
- Discharge destination



APPENDIX A:

Y-12 Quarterly Report



Enclosure 7
Letter, Reis to Glass
Dated: October

Letter Title

**Y-12 National Security Complex Sanitary Sewer Monitoring Data—Oak Ridge
Sewer Use Ordinance (Permit 1-91)—Third Quarter Calendar Year 2012**

**Status of Y-12 National Security Complex
Sanitary Sewer Inflow and Infiltration Program
September 30, 2012**

The Y-12 Complex did not conduct any smoke tests during the third quarter of calendar year 2012. Resources were otherwise committed to improvements of the Lock Out/Tag Out Program and other priority items. There was one video surveillance completed on the east side of Building 9202 where there appears to be a cross connection between the sanitary sewer and storm drain systems. While the results of the video surveillance were non-conclusive, a work order has been submitted which will reroute the roof drain downspouts on the outside of the building to the ground. The completion date of this activity is expected to be in November, 2012.

As of June 30, 2012, all of the piping system outside of the Protected Area has been smoke tested. Recent approval has been received from the Complex-wide Operational Safety Board to commence smoke testing inside the Protected Area. It is expected this activity will begin in mid-November, 2012.

Since the beginning of calendar year 2012, approximately nine miles of sewage pipe has been smoke tested and 2,000 feet has been subjected to video surveillance. Following is a summary of the repairs that have been conducted during calendar year 2012.

- A large opening (6-inch) was discovered in a 15-inch pipe in the eastern portion of the Y-12 Complex. This opening was in a low lying area and there was evidence of significant storm water inflow around the opening. The pipe was repaired the same day.
- The abandoned 15-inch sewer line that runs beneath and parallels Bear Creek Road was isolated with a mechanical plug and concrete.
- Two, open 4-inch pipes were identified on an old building slab. This was considered a significant source due to the slab having a 4-inch curb around the perimeter and the only outlet for storm water was into the open pipes. One additional opening was discovered on a different building slab. Both situations were corrected on the day of discovery.
- Smoke tests of 18 manholes were conducted with no identified issues.
- One missing clean-out cap was replaced.
- Approximately 800 feet of abandoned 8-inch clay pipe was isolated due to the elimination of the east-end gas station. This was accomplished via plugging a downstream manhole with concrete.
- One significant rain event during September provided useful data from the flow meters deployed throughout the Y-12 Complex. This was a 4.8 inch rain event for which four monitoring locations showed an increase in flow. This data will aid in better understanding sources of storm water inflow.

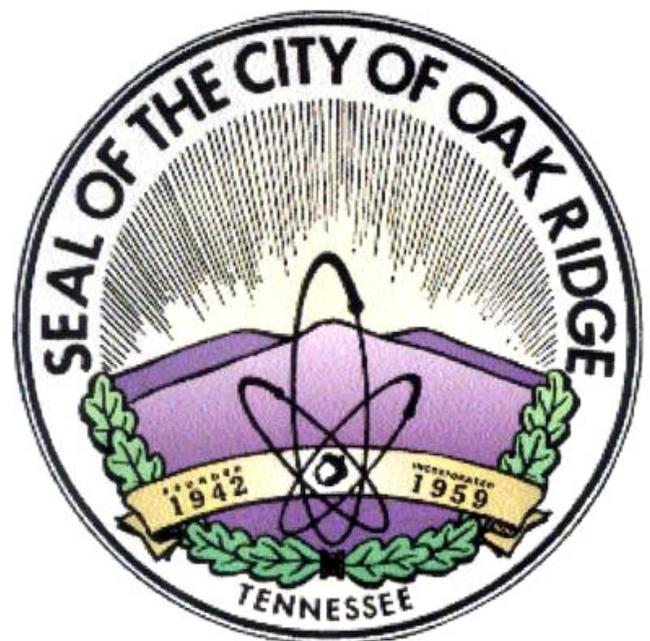
Following is a summary of outstanding issues presented in the June 30, 2012 report and their current status.

- A lateral from the slab of a demolished building was not properly plugged. This will be corrected during the third quarter 2012. *Current Status – This repair will require an excavation. The scheduled completion date is currently unknown.*
- Via visual observation of two in-line manholes, it appears a small amount of groundwater was entering the pipe. A video surveillance is planned for the third quarter 2012 to better identify the location and severity of infiltration. *Current Status - This repair will require an excavation. The scheduled completion date is currently unknown.*

- Two leaks from an old building slab were observed. This will require an excavation to identify and repair. *Current Status – This repair was affected via pouring concrete in the leaks at the building slab. A subsequent smoke test showed this repair to be effective.*
- Smoke was observed in a grassy area that will require a video inspection and probable excavation to identify and correct the source. This smoke test was conducted on June 19, 2012, and witnessed by inspectors from the U.S. Environmental Protection Agency during their multi-media inspection of the Y-12 Complex. *Current Status – A flow meter was installed downstream of this location in an effort to acquire better data to determine the extent of the problem.*
- A test revealed the presence of smoke in a building down spout and nearby storm water catch basin. This has the potential to be a significant source of storm water inflow into the sanitary sewer system and appears to be a cross-connection. A video inspection is currently scheduled for the third week of July, depending on weather. *Current Status – Video was completed during the second week of July, 2012. The path forward is discussed in the first paragraph, above.*
- The two warehouses originally scheduled for demolition in May 2012 are still standing. Demolition of these buildings is being reconsidered; a final decision is pending. Should the buildings be demolished, a lift station pump will be removed and flowable fill poured into the manhole. As a result, approximately 100 feet of cast iron pipe will be removed from the system. *Current Status – Demolition has begun on one of the warehouses (Building 9720-12). However, the other warehouse remains in use and the lift station can not be eliminated. Should the decision be made to eliminate the second warehouse (Building 9720-13) the lift station will be removed as originally planned.*

APPENDIX B:

EIGHTH QUARTER SSO'S



EPA Sanitary Sewer Overflow Summary (See Attached SSO Reports for Details)

8th Quarterly Report - July 1, 2012 to September 30, 2012

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
7/4/2012	Robertsville Road	464	5	Blockage appeared to have been from paper towels.		<input type="checkbox"/>	
9/18/2012	Athens Road		2560	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
9/18/2012	Athens Road	119	9920	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
9/18/2012	Bay Path Drive	108	28900	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Emory Valley Creek
9/18/2012	Cairo Lane	151	2860	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernies Creek
9/18/2012	Dresden Road	100	1000	Excessive rainfall found signs of overflow at manhole when checked at 8:55 am	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Ernies Creek
9/18/2012	Illinois Avenue, South	216	2500	Excessive rainfall found signs of overflow at manhole when checked at 11:05 am	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
9/18/2012	Melton Lake Drive	695	14650	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
9/18/2012	Oak Ridge Turnpike	1289	4000	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
9/18/2012	Oak Ridge Turnpike	1403	3960	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
9/18/2012	Oak Ridge Turnpike	1403	3940	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
9/18/2012	Oak Ridge Turnpike	1403	3940	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
9/18/2012	Purdue Avenue, North	117	40600	Excessive rainfall, 4.97" in 24 hr period	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
9/18/2012	Tusculum Drive	191	1500	Excessive rainfall. Found signs of overflow at manhole when checked at 11:10 am	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
9/29/2012	Wakeman Lane	135	2200	There was a mop handle blocking the outlet pipe in the manhole		<input type="checkbox"/>	

CITY OF OAK RIDGE

REPORT DATE: 7/6/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 464 Robertsville Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: [redacted]

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W13 Map Page # C7 Manhole # W13-C7-31 Force Main:

FLOW DATA

Start Date: 7/4/2012 Time: 3:46 AM PM End Date: 7/4/2012 Time: 4:45 AM PM

Duration 59 mins hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 5 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount [redacted] in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Blockage appeared to have been from paper towels.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: [redacted]

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: [redacted]

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements [redacted] Use (i.e., commercial, residential) [redacted]

Other (describe) [redacted]

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date: [redacted]

Names of Responders: Kim Styles, Bobby Moran

Report completed by [Signature] Title: Sanitary Maint Specialist Date: 7/5/12

Reviewed by [Signature] Title: Operations & Maint Manager Date: 7/5/12

Initial TDEC Notification By: Rick Irwin Date: 7/5/12

After Review & Notification to TDEC [Signature] Title: Operations Manager Date: 7-9-12

Final Review [Signature] Title: Public Works Director Date: 7/9/12

Final Report Transmitted to TDEC By: [Signature] Date: 7/9/12

CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Athens Rd. @ E. Arrowwood Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/23/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E11 Map Page # E23

Manhole # E23-49 Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 9:14 AM PM

End Date: 9/18/2012 Time: 1:30 AM PM

Duration 4 hrs. 16 min. hours/minutes Est. Flow Rate: 10 gpm Estimated Total Flow: 2560 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to Melton Hill Lake

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patterson Title: Maint. Specialist Date: 9-19-12

Reviewed by Rick Smith Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: Tony Morris Date: 9/18/2012

After Review & Notification to TDEC Title: Operations Manager Date: _____

Final Review Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Craig Will Date: 9.21.12

CITY OF OAK RIDGE

REPORT DATE:

SANITARY SEWER OVERFLOW FINAL REPORT NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 119 Athens Rd. 1st Occurrence at this location? Y [] N [x]

If No, Date of Last Occurrence: 1/23/2012

POINT OF OCCURANCE

Manhole: [x] Clean Out: [] In-House Backup: [] Lift Station: Name: None or None or None

If Manhole; Give Mini-system # E11 Map Page # E-22 Manhole # E22-32 Force Main: []

FLOW DATA

Start Date: 9/18/2012 Time: 9:23 AM [x] PM [] End Date: 9/18/2012 Time: 1:31 AM [] PM [x]

Duration 4hrs./8 min. hours/minutes Est. Flow Rate: 40 gpm Estimated Total Flow: 9920 gallons

CAUSES

(Check all that apply)

Rainfall [x] [Estimated amount 4.97 in] Power Outage [] Equipment Failure []

Broken Sewer [] Blocked line from Roots [] Grease [] Collapse [] Other []

Explain causes of overflow: Excessive rainfall 4.97" rain in 24 hr. period.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded [] Nozzle [] Root Saw [] Lid Removed [] Lined [] Equipment Repair []

Line will be: cleaned and TV'd for needed repair: [] Other: City Continues work to correct I&

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes [x] No [] Name of surface water: Tributary to Melton Hill Lake

Ran on/in: Ground & absorbed into soil [] Ditch [x] Storm Sewer []

Basement Back-up [] No. of basements [] Use (i.e., commercial, residential) []

Other (describe) []

Notified Public: Yes [] No [x] How: City Web Site [] The Oak Ridger [] Signs Posted [] Date: []

Names of Responders: Mark Maples

Report completed by David Patterson Title: Maint. Specialist Date: 9-19-12

Reviewed by Rick Luzzi Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: Tony Morris Date: 9/18/2012

After Review & Notification to TDEC Title: Operations Manager Date: []

Final Review [Signature] Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Cindy Will Date: 9.21.12



CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 108 Bay Path Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/29/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E5B Map Page # L22

Manhole # L22-4

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 8:21 AM PM

End Date: 9/18/2012 Time: 1:10 AM PM

Duration 4 hrs./49 min. hours/minutes

Est. Flow Rate: 100 gpm

Estimated Total Flow: 28,900 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 4.97" rain in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Emory Valley Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted

Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by: Doug Patten Title: Maint. Specialist Date: 9-19-12

Reviewed by: Rick Lewin Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: Tony Morris Date: 9/18/2012

After Review & Notification to TDEC Title: Operations Manager Date: _____

Final Review [Signature] Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Craig Hill Date: 9.21.12



CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 100 Dresden Rd.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/7/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E13A Map Page # F20

Manhole # F-701A

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: ? AM PM End Date: 9/18/2012 Time: ? AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 1000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, found signs of overflow at manhole when checked at 8:55 A.M.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to Ernies Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patterson Title: Maint. Specialist Date: 9-19-12

Reviewed by Rick Lucian Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: David Patterson Date: 9/19/2012

After Review & Notification to TDEC Title: Operations Manager Date:

Final Review Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Cindy Will Date: 9.21.12

CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 216 S. Illinois Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/7/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W18A Map Page # J11

Manhole # J11-16

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: ? AM PM End Date: 9/18/2012 Time: ? AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 2500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, found signs of overflow at manhole when checked at 11:05 A.M.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patterson Title: Maint. Specialist Date: 9-19-12

Reviewed by Rick Lewin Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: David Patterson Date: 9/19/2012

After Review & Notification to TDEC Title: Operations Manager Date:

Final Review Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Title: Date: 9.21.12

CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 695 Melton Lake Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/27/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E20 Map Page # L24

Manhole # L24-1

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 8:12 AM PM

End Date: 9/18/2012 Time: 1:05 AM PM

Duration 4 hrs. 53 min. hours/minutes

Est. Flow Rate: 50 gpm

Estimated Total Flow: 14,650 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97" in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Melton Hill Lake

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site

The Oak Ridger

Signs Posted

Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patten

Title: Maint. Specialist

Date: 9-19-12

Reviewed by Rick Clavin

Title: Operations & Maint. Manager

Date: 9/21/12

Initial TDEC Notification

By: Tony Morris

Date: 9/18/2012

After Review &

Notification to TDEC

Title: Operations Manager

Date:

Final Review

[Signature]

Title: Public Works Director

Date:

9/21/12

Final Report Transmitted to TDEC

By:

[Signature]

Date:

9.21.12



CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1289 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 11/29/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G13

Manhole # G13-12

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 10:26 AM PM

End Date: 9/18/2012 Time: 1:46 AM PM

Duration 3 hrs. 20 min. hours/minutes

Est. Flow Rate: 20 gpm

Estimated Total Flow: 4000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site

The Oak Ridger

Signs Posted

Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patterson

Title: Maint. Specialist

Date: 9-19-12

Reviewed by Rick Lawin

Title: Operations & Maint. Manager

Date: 9/21/12

Initial TDEC Notification

By: Tony Morris

Date: 9/18/2012

After Review &

Notification to TDEC

Title: Operations Manager

Date:

Final Review

By: [Signature]

Title: Public Works Director

Date:

9/21/12

Final Report Transmitted to TDEC

By:

[Signature]

Date:

9.21.12



CITY OF OAK RIDGE

REPORT DATE: 9/18/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/7/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G12

Manhole # G12-2

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 10:36 AM PM

End Date: 9/18/2012 Time: 1:53 AM PM

Duration 3 hrs. 17 min. hours/minutes

Est. Flow Rate: 20 gpm

Estimated Total Flow: 3940 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patterson Title: Maint. Specialist Date: 9-19-12

Reviewed by Rick Lusin Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: Tony Morris Date: 9/18/2012

After Review & Notification to TDEC Title: Operations Manager Date: _____

Final Review Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Craig Will Date: 9.21.12



CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/7/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G12

Manhole # G12-1

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 10:34 AM PM

End Date: 9/18/2012 Time: 1:51 AM PM

Duration 3hrs. 17 min. hours/minutes

Est. Flow Rate: 20 gpm

Estimated Total Flow: 3940 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: excessive rainfall, 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements

Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No

How: City Web Site

The Oak Ridger

Signs Posted

Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by: David Patterson

Title: Maint. Specialist

Date: 9-19-12

Reviewed by: Rick Swin

Title: Operations & Maint. Manager

Date: 9/21/12

Initial TDEC Notification

By: Tony Morris

Date: 9/18/2012

After Review & Notification to TDEC

Title: Operations Manager

Date:

Final Review

[Signature]

Title: Public Works Director

Date: 9/21/12

Final Report Transmitted to TDEC

By: Cindy Will

Date: 9.21.12

CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 1/27/2012

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W5

Map Page # G11

Manhole # G11-8

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: 10:32 AM PM

End Date: 9/18/2012 Time: 1:50 AM PM

Duration 3 hrs. 18 min. hours/minutes

Est. Flow Rate: 20 gpm

Estimated Total Flow: 3960 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Tributary to East Fork Poplar creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site

The Oak Ridger

Signs Posted

Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by Daniel Battena

Title: Maint. Specialist

Date: 9-19-12

Reviewed by Rob Lewis

Title: Operations & Maint. Manager

Date: 9/21/12

Initial TDEC Notification

By: Tony Morris

Date: 9/18/2012

After Review & Notification to TDEC

Title: Operations Manager

Date: _____

Final Review [Signature]

Title: Public Works Director

Date: 9/21/12

Final Report Transmitted to TDEC

By: [Signature]

Date: 9.21.12

LOCATION DATA
LOCATION: 117 N. Purdue Ave. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 1/27/2012

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # W5 Map Page # G15 Manhole # G15-13 Force Main:

FLOW DATA
Start Date: 9/18/2012 Time: 10:19 AM PM End Date: 9/18/2012 Time: 1:42 AM PM
Duration 3 hrs. 23 min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 40,600 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 4.97 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: Excessive Rainfall 4.97" in 24 hr. period

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES
Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair
Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)
Did flow run to surface water: Yes No Name of surface water: East Fork Poplar Creek
Ran on/in: Ground & absorbed into soil Ditch Storm Sewer
Basement Back-up No. of basements Use (i.e., commercial, residential)
Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:
Names of Responders: Mark Maples, Richard Carroll
Report completed by David Patton Title: Maint. Specialist Date: 9-19-12
Reviewed by Rick Loren Title: Operations & Maint. Manager Date: 9/21/12

Initial TDEC Notification By: Tony Morris Date: 9/18/2012
After Review & Notification to TDEC Title: Operations Manager Date: _____
Final Review  Title: Public Works Director Date: 9/21/12
Final Report Transmitted to TDEC By: Cindy Will Date: 9.21.12



CITY OF OAK RIDGE

REPORT DATE: 9/19/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 191 Tusculum Dr.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/7/2011

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W19 Map Page # H11

Manhole # H11-4

Force Main:

FLOW DATA

Start Date: 9/18/2012 Time: ? AM PM End Date: 9/18/2012 Time: ? AM PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 1500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 4.97 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall, Found signs of overflow at manhole when checked at 11:10 A.M.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Limed Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: City continues work to correct I&I

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: East Fork Poplar Creek

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements Use (i.e., commercial, residential)

Other (describe)

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date:

Names of Responders: Mark Maples, Richard Carroll

Report completed by David Patterson Title: Maint Specialist Date: 9-19-12

Reviewed by Rick Lewin Title: Operations + Maint. Manager Date: 9/21/12

Initial TDEC Notification By: David Patterson Date: 9/19/2012

After Review & Notification to TDEC Title: Operations Manager Date: _____

Final Review Title: Public Works Director Date: 9/21/12

Final Report Transmitted to TDEC By: Craig Will Date: 9.21.12

CITY OF OAK RIDGE

REPORT DATE: 10/2/2012

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 135 Wakeman Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: [redacted]

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W11 Map Page # C10

Manhole # C10-38 Force Main:

FLOW DATA

Start Date: 9/29/2012 Time: 3:10 AM PM End Date: 9/29/2012 Time: 4:38 AM PM

Duration 1hr,28mins hours/minutes Est. Flow Rate: 25 gpm Estimated Total Flow: 2200 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount [redacted] in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: There was a mop handle blocking the outlet pipe in the manhole.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded Nozzle Root Saw Lid Removed Lined Equipment Repair

Line will be: cleaned and TV'd for needed repair: Other: [redacted]

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water: [redacted]

Ran on/in: Ground & absorbed into soil Ditch Storm Sewer

Basement Back-up No. of basements [redacted] Use (i.e., commercial, residential) [redacted]

Other (describe) [redacted]

Notified Public: Yes No How: City Web Site The Oak Ridger Signs Posted Date: [redacted]

Names of Responders: Brian Simmons, Tony Morris and Leon Smith

Report completed by Bryan Jones Title: UTILITY SPECIALIST Date: 10-3-12

Reviewed by Kirk Clavin Title: Operations & Maint. Manager Date: 10-3-12

Initial TDEC Notification By: Brian Simmons Date: 9/28/12

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 10-3-12

Final Review [Signature] Title: Public Works Director Date: 10/3/12

Final Report Transmitted to TDEC By: Kathy Stout Date: 10/3/12

