

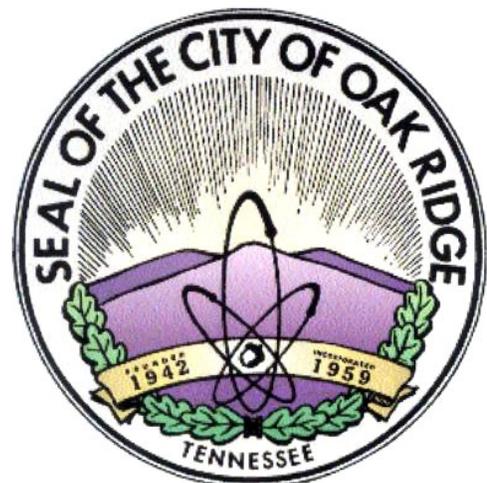
Fourteenth Quarterly Report

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

Period
January 1, 2014 –
March 31, 2014

April 2014

Submitted by:



Fourteenth Quarterly Report

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Period:
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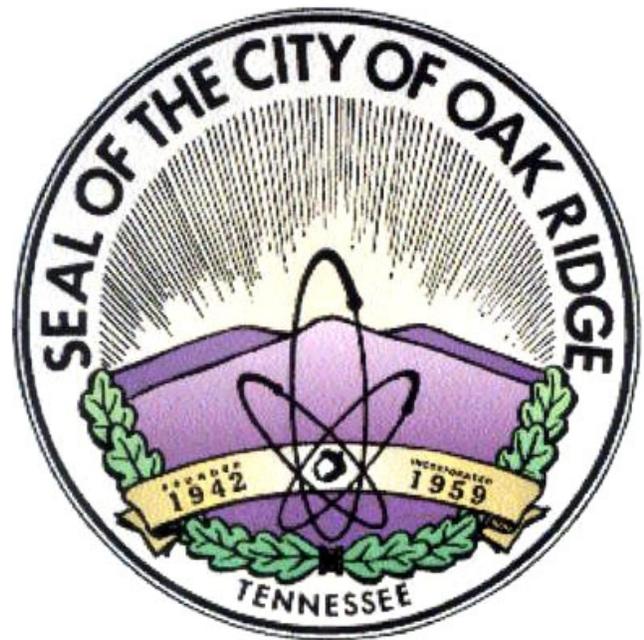
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A.	B&W Y-12 Correspondence



SECTION I:

ACTIONS DURING THE FOURTEENTH QUARTER



SECTION I

ACTIONS DURING THE TENTH QUARTER

A. Introduction

Item 18 of the Administrative Order (AO) requires the City to submit quarterly reports. Those reports are due the 28th day of the month following the end of the quarter. They are to describe actions taken toward achieving compliance with the AO. This section of the report will deal with Management, Operation, Maintenance (MOM) matters, as well as remediation activities.

B. Funding

The City has requested additional SRF funds to complete the work described in the Remediation Plan beyond those reported in the Thirteenth Quarterly Report. The State has been as slow in responding to this request as they were with the \$18 million. Those funds are expected in May 2014.

C. System Evaluation and Rehabilitation Plans

The mini-basins (EPIII and IPIV) in the East Plant sewer shed are under construction. When completed, the East Plant sewer shed will be complete.

The City has secured sites for the three equalization basins identified in the rehabilitation plan. Geotechnical investigations have been completed. It is expected that construction will begin in late summer 2014.



Portions of the East Plant sewer shed are complete and post-construction investigation continues on lateral issues and identifying other defects to be addressed as routine maintenance.

Design is complete for the following sewer sheds: a) Y-12, b) Central City, and c) West End. When the next round of funding is secured, the Turtle Park sewer shed will be designed. Bids for the Central City sewer shed are to be opened in April 2014.

D. Management, Operations, and Maintenance Programs

1. Information Management System

During the period, a mobile application for the Information Management System, Infor, was tested on an iPad. The app will probably be used in the future, but is costly and not required at the present time for the field work.

Pump Stations

- 456 weekly preventive maintenance work orders generated and completed.
- 71 monthly preventive maintenance work orders generated and completed.
- 50 quarterly preventive maintenance work orders generated and completed.
- 9 semi-annual preventive maintenance work orders generated and completed.
- 11 annual preventive maintenance work orders generated and completed.
- 6 pump station inspection work orders were generated for rain events.
- 39 work orders generated by the maintenance crew (not including PMs, and Rain Events)



- Total-to-date of 6,653 work orders generated in the Infor system for the WWTP maintenance crew.

Gravity Sewer

- As needed training continues.
- FOG asset routes in January, February and March scheduled and completed.
 - 10 work orders assigned to Code Enforcement for failed FSE FOG inspections (listing attached)
- Continue to refine the process for documenting the SSOs in the Infor system with limited issues.
- 204 work orders generated by the gravity crews (not including Call Center, Routing and Rain Events)
- Total-to-date of 2,083 work orders generated in the Infor system for the gravity crews.

**WORK ORDERS GENERATED FOR FAILED FOG INSPECTIONS
 ASSIGNED TO CODE ENFORCEMENT
 1/01/2014 THROUGH 3/31/2014**

#	Work Order	Date Created	Description	Problem Address	WO Type	Priority	Asset	Equipment Description
1	63021	4/2/2014	Failed Fog Inspection, Zaxbys	1007 Oak Ridge Turnpike	Private	3-Medium (as scheduled)	23933	FOG:I:E4-G16-3(P)
2	63020	4/2/2014	Failed Fog Inspection, Methodist Medical Center	990 Oak Ridge Turnpike	Private	3-Medium (as scheduled)	23818	FOG:I:E3-F16-1(P)
3	63019	4/2/2014	Failed Fog Inspection, Applebees	1213 Oak Ridge Turnpike	Private	3-Medium (as scheduled)	23810	FOG:I:W5-G14-2(P)
4	63018	4/2/2014	Failed Fog Inspection, Rancho Viejo Mexican	1140 Oak Ridge Turnpike	Private	3-Medium (as scheduled)	23805	FOG:I:W5-G15-2(P)



**WORK ORDERS GENERATED FOR FAILED FOG INSPECTIONS
 ASSIGNED TO CODE ENFORCEMENT
 1/01/2014 THROUGH 3/31/2014**

#	Work Order	Date Created	Description	Problem Address	WO Type	Priority	Asset	Equipment Description
5	59755	2/10/2014	Failed Fog Inspection, Riverside Grille	100 Melton Lake Peninsula	Private	3-Medium (as scheduled)	23841	FOG:I:E30-G24-1(P)
6	59753	2/10/2014	Failed Fog Inspection, Woodland School	168 Manhattan Avenue	Private	3-Medium (as scheduled)	23837	FOG:I:W3-J14-1(P)
7	59752	2/10/2014	Failed Fog Inspection, Chick Fil A	357 South Illinois Avenue	Private	3-Medium (as scheduled)	23853	FOG:I:W18 A-J12-7(P)
8	59751	2/10/2014	Failed Fog Inspection, Deans	239 Jackson Square	Private	3-Medium (as scheduled)	23932	FOG:I:E3-E17-1(P)
9	59748	2/10/2014	Failed Fog Inspection, Kroger	380 South Illinois Avenue	Private	3-Medium (as scheduled)	23847	FOG:I:W18 A-K12-2(P)
10	59090	1/24/2014	Failed Fog Inspection, Popeyes	118 South Illinois Avenue	Private	3-Medium (as scheduled)	23819	FOG:I:W28-G11-3(P)
11	59088	1/24/2014	Failed Fog Inspection, Pizza Inn	1501 Oak Ridge Turnpike	Private	3-Medium (as scheduled)	23934	FOG:I:W9-F11-1(P)

Call Center

- Total-to-date of 5,315 work orders generated in the Infor system by the Call Center.
- 1,098 work orders generated during this quarter in the Infor system by the Call Center.
 - 51 work orders called in for “Check Sewer Problem” with 55% the owner’s problem



GIS

The City of Oak Ridge continues to add to and update the GIS mapping system. During this quarter the GIS Specialist worked on preparing the sewer system GIS data to be integrated with the Granite XP software. The GIS Specialist restructured some of the attribute fields in the GIS sewer system in order to be NASSCO compliant. Additional preparation included updating the Granite XP software and installing a new computer in the CCTV truck.

Work continues on loading approximately 22,000 inspection pictures from 2010 and 2011 that will be linked to the GIS mapping system.

The City of Oak Ridge is in the process of updating the base data GIS layers (streets, addresses, parcels, etc.) thus providing the field personnel more accurate geographic information.

2. Engineering

By-Pass Pumping Connections

By-pass pumping connections will be installed at the remaining seven pump stations when they are replaced or updated.

- Palisades #4 Pump Station
 - Pumps were bid during this quarter and will be ordered upon approval by Oak Ridge City Council
- Palisades #1 Pump Station
- Palisades #2 Pump Station
- Palisades #3 Pump Station
- Castlewood Pump Station (completed)
- Westview Pump Station (completed)
- Peninsula (formerly Gregory's) Pump Station (completed)

Supervisory Control and Data Acquisition (SCADA)

The SCADA components ordered during the previous quarter, remain on schedule for installation and expected operation by June 30, 2014.



3. Operations

Fats, Oils, and Grease

Quick Stats:

- a. 109 establishments in program (decreased by 1 since last report)
- b. Resolved 12 of 13 Public Works identified FSE failures.
- c. Code Enforcement now using INFOR system with Public Works Department.

City of Oak Ridge Program Coordination updates:

- a. 2014 FSE Inspections will follow closely with the Public Works tank inspection schedule.
- b. Continued new building permits to the FOG program for food service establishments (FSE) as certificate of occupancy requirement
- c. Frequent FSE Manager changes continue to cause problems with education and additional inspection follow ups.

Collection

East Plant Sewer Shed

- Sewer rehab contractors are now working in the East Plant Sewer Shed. As rehab contractors finish a mini system, city crews will move in to clean, CCTV, inspect manholes and smoke test. As of to date only E-11 and E-12 mini systems have been completed.

Cleaning and CCTV Inspection

- The rehab work is currently underway in the East Plant Sewer Shed. As the rehab contractors complete a mini system, the contractor will clean and CCTV the lines that were repaired, all other sewer lines in that mini system will be cleaned and CCTV by city crews.

Manhole Inspections

Sewer rehab contractors are now working in the East Plant Sewer Shed. As rehab contractors finish a mini system, city crews will inspect the manholes.

- E11 completed.
- E12 completed



Flow Monitoring

- City personnel continue to monitor the sewer flows during rain and dry weather.
- There are currently eighteen (18) flow meters strategically located throughout the city. The Emory Valley Sewer Shed has flow meters installed for post construction flow monitoring, and some of the East Plant Sewer Shed flow meters have been removed for construction but will be reinstalled for post construction flow monitoring.

Rain Gauges

- The three (3) rain gauges are recording rainfall data in the East, West and Center of the city. The central rain gauge being at the Water Treatment Plant is the primary used to call rain events of 0.5" or more.

Rain Events

- For this quarter the City of Oak Ridge has had a total of six (6) rain events totaling .5" or more of rain.

Rainfall Data

- Monthly rainfall amounts for the City of Oak Ridge recorded at the Water Treatment Plant for this quarter.
 - January 2.32"
 - February 4.43"
 - March 3.60"

SSOs

- 17- SSO's during this quarter
 - 16 - wet weather overflows
 - 1 - dry weather overflow

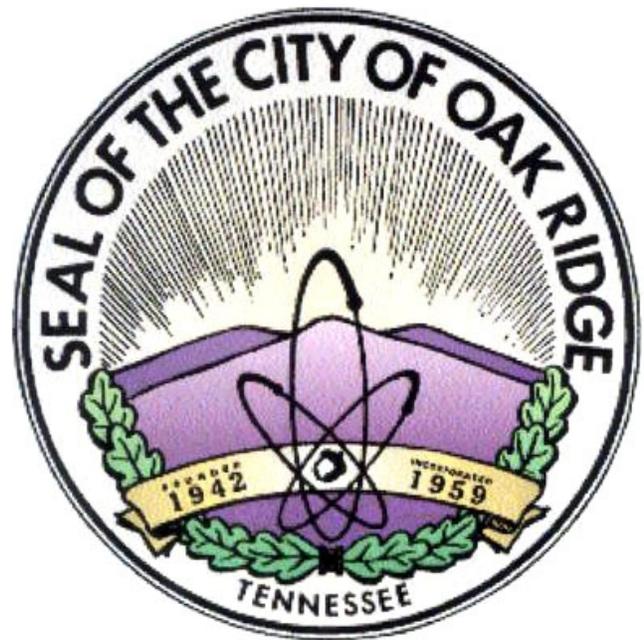
Safety Training

- All Public Works employees attend monthly safety meetings.
- This quarter topics were
 - January – Health, Wellbeing and Nutrition and their Effects in the Workplace
 - February – Safety in Winter Weather
 - March – Disaster Preparedness



SECTION II:

**OTHER GENERAL
COMMENTS**



SECTION II

OTHER GENERAL COMMENTS

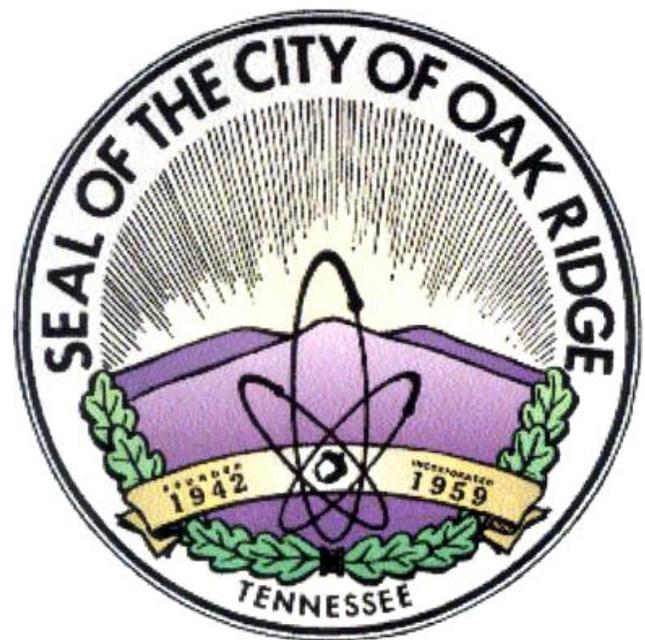
The City and EPA have had discussions concerning the National Nuclear Security Administration's (NNSA) Y-12 facility. The City recognizes they own the collection system and hold the NPDES permit. However, the Y-12 facility (an independent customer) operates at a level higher than city or state government. That facility, from a practical perspective, is not the same as any other industrial customer with a service lateral.

A letter from B&W Y-12 indicating their activity relative to I/I reduction occurred during the quarter is Appendix A.



SECTION III:

**SSO'S DURING
FOURTEENTH QUARTER**



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

14th Quarterly Report - January 1, 2014 to March 31, 2014

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
1/11/2014	Beverly Circle	100	1350	Roots combined with 1.25" of rainfall		<input type="checkbox"/>	
2/3/2014	Bay Path Drive	108	18800	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Emory Valley Creek
2/3/2014	Cahill Lane	106	29250	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/3/2014	Cairo Lane	151	181500	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/3/2014	Dresden Road	100	89250	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/3/2014	Glendale Lane	114	49500	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/3/2014	Illinois Avenue, South	216	97000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/3/2014	Melton Lake Drive	695	120200	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
2/3/2014	Oak Ridge Turnpike	1403	600000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/3/2014	Oak Ridge Turnpike	1403	30000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/3/2014	Oak Ridge Turnpike	1403	120000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/3/2014	Oak Ridge Turnpike	470	59000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/3/2014	Oak Ridge Turnpike	535	119000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/3/2014	Purdue Avenue, North	117	204000	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/3/2014	Tusculum Drive	191	48500	Excessive rainfall 2.23" rain in a 12 hour period	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
2/3/2014	Tuskegee Drive		1000	Excessive rainfall 2.23" rain in a 12 hour period. Manhole was not overflowing when found at 12:15 pm, but showed signs of overflow. Manhole frame and cover had been hit by some type of vehicle and knocked halfway off the hole	City continues work to correct I&I. Manhole cover and frame reinstalled	<input checked="" type="checkbox"/>	East Fork Poplar Creek
3/8/2014	Wakefield Road	113	1500	Manhole W11-C11-40 wasn't overflowing when checked at 3:15 pm but showed signs that an overflow had occurred. Line was blocked by roots, grease and towels		<input type="checkbox"/>	

CITY OF OAK RIDGE

REPORT DATE: 1/13/2014

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 100 Beverly Cir.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W18-G

Map Page # D4 Manhole #

Force Main:

FLOW DATA

Start Date: 1/11/2014 Time: 7:30 AM PM

End Date: 1/11/2014 Time: 9:00 AM PM

Duration 1hr, 30mins hours/minutes Est. Flow Rate: 15 gpm Estimated Total Flow: 1350 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 1.25 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Roots combined with 1.25" of rainfall

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:

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water:

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: Kim Styles, Brian Simmons and Cody Martin

Report completed by Brian Simmons Title: UTILITY SPECIALIST Date: 1-13-14

Reviewed by Scott Jackson Title: Operations + Maint. Manager Date: 1/13/14

Initial TDEC Notification By: Brian Simmons Date: 1/11/14

After Review & Scott Jackson Title: Operations Manager Date: 1-13-14
Notification to TDEC

Final Review Scott Jackson Title: Public Works Director Date: 1/13/14

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/13/14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

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: 7/6/2013

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 # E5B-L22-4 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 3:29 AM PM

End Date: 2/3/2014 Time: 9:45 AM PM

Duration 6 hrs. 16 min. hours/minutes

Est. Flow Rate: 50 gpm

Estimated Total Flow: 18,800 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/4/14

Reviewed by Scott Jackson Title: Operations & Maint. Manager Date: 2/3/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Scott Jackson Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Cindy Will Date: 2.7.14

LOCATION DATA

LOCATION: 151 Cairo Ln. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 12/22/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E13B Map Page # G22 Manhole # E13B-G22-14 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 3:40 AM PM End Date: 2/3/2014 Time: 1:45 AM PM
Duration 10 hrs. 5 min. hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 181,500 gallons

CAUSES
(Check all that apply)

Rainfall [Estimated amount 2.23 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: Ernie's 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/4/14

Reviewed by Kick Edwin Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: [Signature] Date: 2.7.14

CITY OF OAK RIDGE

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

REPORT DATE: 2/4/2014

LOCATION DATA

LOCATION: 106 California Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 7/7/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # E10 Map Page # F20

Manhole # E10-F20-19 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 4:15 AM PM

End Date: 2/3/2014 Time: 2:00 AM PM

Duration 9 hrs. 45 min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 29,250 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: Ernie's 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Kick Lavin Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Ray Corder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Ray Corder Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

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: 12/22/2013

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 # E13A-F20-36

Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 3:55 AM PM

End Date: 2/3/2014 Time: 1:50 AM PM

Duration 9 hrs.55 min. hours/minutes

Est. Flow Rate: 150 gpm

Estimated Total Flow: 89,250 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: Emie's 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Kick Churni Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: [Signature] Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 114 Grandcove Ln.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/22/2013

POINT OF OCCURENCE

Manhole Clean Out In-House Backup

Pump Station Name: None or None or None

If Manhole; Give Mini-system # W27 Map Page # E3W

Manhole # W27-E3W-9 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 6:15 AM PM

End Date: 2/3/2014 Time: 2:30 AM PM

Duration 8 hrs. 15 min. hours/minutes

Est. Flow Rate: 100 gpm

Estimated Total Flow: 49,500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: 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: David Patterson, Brain Simmons

Report completed by David Patterson

Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Rick Lewis

Title: Operations & Maint. Manager Date: 2/4/14

Initial TDEC Notification

By: David Patterson

Date: 2/3/14

After Review & Scott Jackson

Title: Operations Manager

Date: 2-7-14

Notification to TDEC

Final Review Ray Cumber

Title: Public Works Director

Date: 2/7/14

Final Report Transmitted to TDEC

By: Craig Will

Date: 2.7.14

LOCATION DATA

LOCATION: 216 S. Illinois Ave. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 12/22/2013

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 # W18A-J11-16 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 5:25 AM PM End Date: 2/3/2014 Time: 1:30 AM PM
Duration 8 hrs. 5 min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 97,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/4/14

Reviewed by Kick Brown Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14
After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Greg Curder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Chris Will Date: 2.7.14

LOCATION: 695 Melton Lake Dr. 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 12/22/2013

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 # E20-L24-1 Force Main:

FLOW DATA
Start Date: 2/3/2014 Time: 3:19 AM PM End Date: 2/3/2014 Time: 1:20 AM PM
Duration 10 hrs. 1 min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 120,200 gallons

CAUSES (Check all that apply)
Rainfall [Estimated amount 2.23 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other
Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: 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: David Patterson, Brian Simmons
Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14
Reviewed by Rick Lawson Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14
After Review & Notification to TDEC Scott Johnson Title: Operations Manager Date: 2-7-14
Final Review [Signature] Title: Public Works Director Date: 2/7/14
Final Report Transmitted to TDEC By: Craig Will Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

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: 12/22/2013

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 # W5-G12-2 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 5:10 AM PM

End Date: 2/3/2014 Time: 10:10 AM PM

Duration 5 hrs. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 60,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive Rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Kick Chuan Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Pachner Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Greg Cumber Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Craig W Date: 2.7.14

LOCATION DATA
LOCATION: 1403 Oak Ridge Turnpike 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 12/22/2013

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 # W5-G12-1 Force Main:

FLOW DATA
Start Date: 2/3/2014 Time: 5:05 AM PM End Date: 2/3/2014 Time: 10:05 AM PM
Duration 5 hrs. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 30,000 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 2.23 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive Rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Rich Stuzi Title: Operations + Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14
After Review & Scott Johnson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Myra Cunder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Craig Will Date: 2.7.14

LOCATION DATA
LOCATION: 1403 Oak Ridge Turnpike 1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/22/2013

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 # W5-G11-8 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 5:00 AM PM End Date: 2/3/2014 Time: 10:00 AM PM

Duration 5 hrs. hours/minutes Est. Flow Rate: 400 gpm Estimated Total Flow: 120,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive Rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/4/14

Reviewed by Rick Lewis Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review W. G. Guder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: David Patterson Date: 2.7.14

LOCATION DATA
LOCATION: 470 Oak Ridge Turnpike 1st Occurrence at this location? Y N
If No, Date of Last Occurrence: 12/22/2013

POINT OF OCCURENCE
Manhole Clean Out In-House Backup Pump Station Name: None or None or None
If Manhole; Give Mini-system # E10 Map Page # F20 Manhole # E10-F20-16 Force Main:

FLOW DATA
Start Date: 2/3/2014 Time: 4:20 AM PM End Date: 2/3/2014 Time: 2:10 AM PM
Duration 9 hrs. 50 min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 59,000 gallons

CAUSES
(Check all that apply)
Rainfall [Estimated amount 2.23 in] Power Outage Equipment Failure
Broken Sewer Blocked line from Roots Grease Collapse Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: Emie's 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Rick Lewis Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14
After Review & Scott Johnson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Greg Corder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Craig Will Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 535 Oak Ridge Turnpike

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/22/2013

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 # G20

Manhole # E13A-G20-27

Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 4:00 AM PM

End Date: 2/3/2014 Time: 1:55 AM PM

Duration 9 hrs. 55 min. hours/minutes

Est. Flow Rate: 200 gpm

Estimated Total Flow: 119,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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 l&l

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No

Name of surface water: Ernie's 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/4/14

Reviewed by Kick Clavin Title: Operations + Maint. Manager Date: 2/7/14

Initial TDEC Notification

By: David Patterson

Date: 2/3/14

After Review & Scott Johnson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review W. G. Cumber Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Craig Will Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 117 N. Purdue Ave.

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/22/2013

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 # W5-G15-13 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 4:50 AM PM

End Date: 2/3/2014 Time: 1:20 AM PM

Duration 8 hrs. 30 min. hours/minutes Est. Flow Rate: 400 gpm Estimated Total Flow: 204,000 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Sewer Maint. Specialist Date: 2/4/14

Reviewed by Scott Jackson Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Jackson Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review Scott Cunder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: David Patterson Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 2/4/2014

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: 12/22/2013

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 # W19-H11-4 Force Main:

FLOW DATA

Start Date: 2/3/2014 Time: 5:30 AM PM

End Date: 2/3/2014 Time: 1:35 AM PM

Duration 8 hrs.5.min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 48,500 gallons

CAUSES

(Check all that apply)

Rainfall [Estimated amount 2.23 in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 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: David Patterson, Brian Simmons

Report completed by David Patterson Title: Senior Maint. Specialist Date: 2/4/14

Reviewed by Rick Brown Title: Operations & Maint. Manager Date: 2/7/14

Initial TDEC Notification By: David Patterson Date: 2/3/14

After Review & Scott Packner Title: Operations Manager Date: 2-7-14
Notification to TDEC

Final Review W. Cunder Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: Craig Wier Date: 2.7.14

LOCATION: Tuskegee Dr. 1st Occurrence at this location? Y [X] N []

If No, Date of Last Occurrence:

POINT OF OCCURENCE

Manhole [X] Clean Out [] In-House Backup [] Pump Station Name: None or None or None
If Manhole; Give Mini-system # W18A Map Page # J11 Manhole # W18A-J11-14 Force Main: []

FLOW DATA

Start Date: 2/3/2014 Time: 12:15 AM [] PM [X] End Date: 2/3/2014 Time: 12:15 AM [] PM [X]

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

CAUSES

(Check all that apply)

Rainfall [X] [Estimated amount 2.23 in] Power Outage [] Equipment Failure []
Broken Sewer [] Blocked line from Roots [] Grease [] Collapse [] Other []

Explain causes of overflow: Excessive rainfall 2.23" rain in a 12 hr. period. Manhole was not overflowing when found at 12:15 pm, but showed signs of overflow. Manhole frame and cover had been hit by some type of vehicle and knocked halfway off the hole.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

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

Line will be: cleaned and TV'd for needed repair: [] Other: City continues work to correct I&I manhole frame and cover will be reinstalled.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes [X] No [] Name of surface water: East Fork Poplar Creek

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: Tony Morris

Report completed by [Signature] Title: Maintenance crew chief Date: 2/7/14

Reviewed by [Signature] Title: Operations + Maint. Manager Date: 2/7/14

Initial TDEC Notification By: Tony Morris Date: 2/3/14

After Review & Notification to TDEC [Signature] Title: Operations Manager Date: 2-7-14

Final Review [Signature] Title: Public Works Director Date: 2/7/14

Final Report Transmitted to TDEC By: [Signature] Date: 2.7.14

CITY OF OAK RIDGE

REPORT DATE: 3/12/2014

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 113 Wakefield Road

1st Occurrence at this location? Y N

If No, Date of Last Occurrence: 12/14/1998

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 # C11

Manhole # W11-C11-40

Force Main:

FLOW DATA

Start Date: 3/8/2014 Time: 3:15 AM PM

End Date: 3/8/2014 Time: 3:15 AM PM

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

CAUSES

(Check all that apply)

Rainfall [Estimated amount in] Power Outage Equipment Failure

Broken Sewer Blocked line from Roots Grease Collapse Other *KS 4-1-14*

Explain causes of overflow: Manhole W11-C11-40 wasn't overflowing when checked at 3:15 pm, but showed signs that an overflow had occurred. Line was blocked by roots,grease and towels.

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:

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes No Name of surface water:

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 Daniel, Doug Farmer

Report completed by Mark Daniel Title: Specialist Date: 3-12/14

Reviewed by Lick Swain Title: Operations & Maint. Manager Date: 3/12/14

Initial TDEC Notification By: Mark Daniel Date: 3/10/14

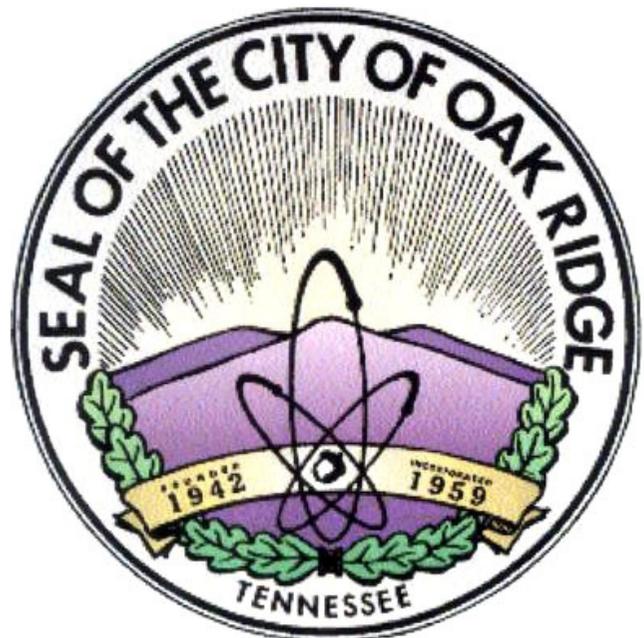
After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 3-13-14

Final Review [Signature] Title: Public Works Director Date: 3/13/14

Final Report Transmitted to TDEC By: [Signature] Date: 3.13.14

APPENDIX A:

B&W Y-12 CORRESPONDENCE



Enclosure 7
Letter, Bishop to Glass
Dated: April 17, 2014

Letter Title

**Y-12 National Security Complex Sanitary Sewer Monitoring Data—Oak Ridge
Sewer Use Ordinance (Permit 1-91)—First Quarter Calendar Year 2014**

**Status of Y-12 National Security Complex
Sanitary Sewer Inflow and Infiltration Program
March 31, 2014**

In March 2014, Y-12 hired an outside contractor to line approximately 420 lineal feet of 8" sewer pipe in the area around Building 9712-1 (Y-12 Garage). During the lining project, it was discovered that four downspouts from the guttering on the building had been inadvertently tied into the sewer system instead of the storm drain system. These downspouts have been redirected to discharge to the surrounding pavement and lateral was isolated from the sanitary sewer pipe.

This project also included the refurbishment of three manholes which were showing evidence of groundwater infiltration. Hydraulic cement was used to seal the bottom and sides of the manhole.

A second project has been initiated to line approximately 1,300 lineal feet of 8" and 10" vitrified clay pipe. This line runs from the old Biology Complex to the 18" main sewer line which parallels East Fork Poplar Creek. This line was selected as a result of the smoke testing which was conducted in 2012. The scope of work is currently being developed and initial project documents are being provided to the Procurement Organization. This project is expected to be completed this summer.