

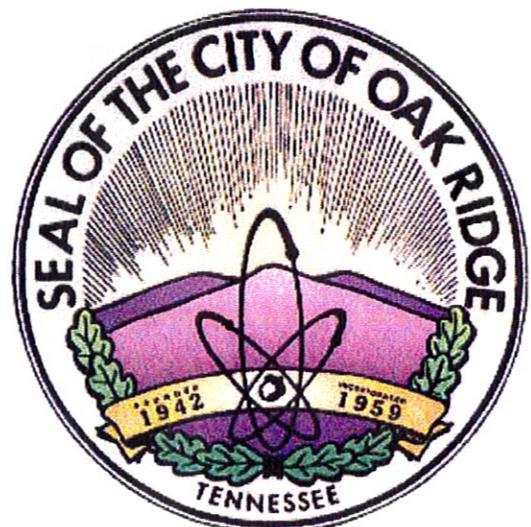
# **Second Quarterly Report**

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

**Period  
January 1, 2011 –  
March 31, 2011**

**April 2011**

**Submitted by:**



**Second Quarterly Report**

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

**Period:  
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April 14, 2011

CERTIFIED MAIL

Ms. Denisse D. Diaz  
Acting Chief  
Clean Water Enforcement Branch  
Water Protection Division  
ATTN: Mr. Dennis J. Sayre  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street, S.W.  
Atlanta, Georgia 30303-8960

Dear Mr. Sayre:

Administrative Order No. CWA-04-2010-4772

The second Quarterly Report of activities by the City of Oak Ridge in conjunction with its engineering consultants, related to Administrative Order No. CWA-04-2010-4772 is enclosed. This is in compliance with the requirements contained in paragraph 18 of the Order.

I trust you will find the supplied information compliant with the Order. If you have any comments or questions, please contact Mr. Gary M. Cinder, Public Works Director, at 865-425-1875 or email him at [gcinder@corfn.org](mailto:gcinder@corfn.org).

In accordance with Item 20 of this Order, the following language is included in this correspondence:

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

Sincerely,

Mark S. Watson  
City Manager

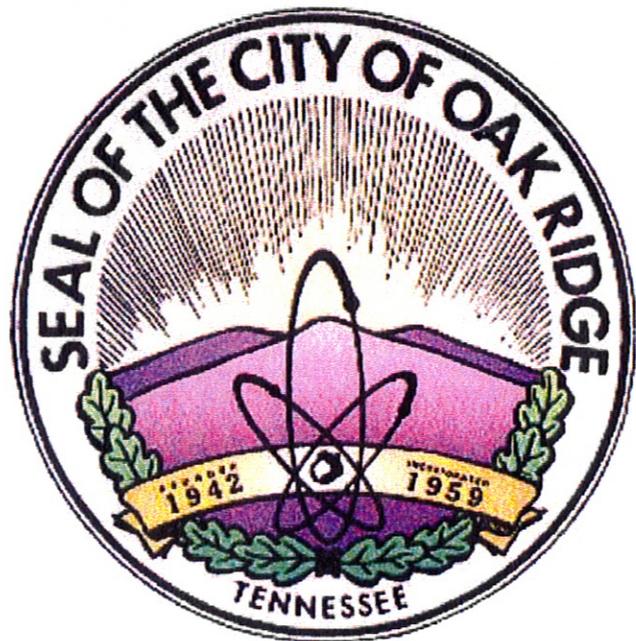
MSW/ks

Enclosures

pc: Kenneth R. Krushenski, City Attorney  
Gary M. Cinder, P.E., Director of Public Works  
John West, TDEC  
Lamar Dunn, P.E., FACEC, President, LD&A, Inc.  
Darrel Kohlhorst, B&W Y-12

# **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). The Order had four (4) general sections outlining activities required of the City with a defined schedule for compliance. Those areas are as follows:

#### Sanitary Sewer Overflows

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

#### System Evaluation and Rehabilitation Plans (SERP)

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 is due for submittal to the EPA within one year of approval of the work plan. The execution of the SSES work plan must be completed within



one year of approval. The results of the evaluation survey must be submitted within two (2) months after completion of the survey. Two (2) months following the results, a Remediation Plan must be submitted for review and approval.

#### Sanitary Sewer Overflow Response Plan (SORP)

Within six (6) months (Second Quarter), the City shall prepare and submit a Response Plan detailing procedures to be taken relative to any overflows occurring in the sewer system.

#### Management, Operation, and Maintenance Programs (MOM)

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.

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. The first quarterly report was due by the 28<sup>th</sup> of January, 2011. The first report was submitted on time. The Order outlines the format of these reports.

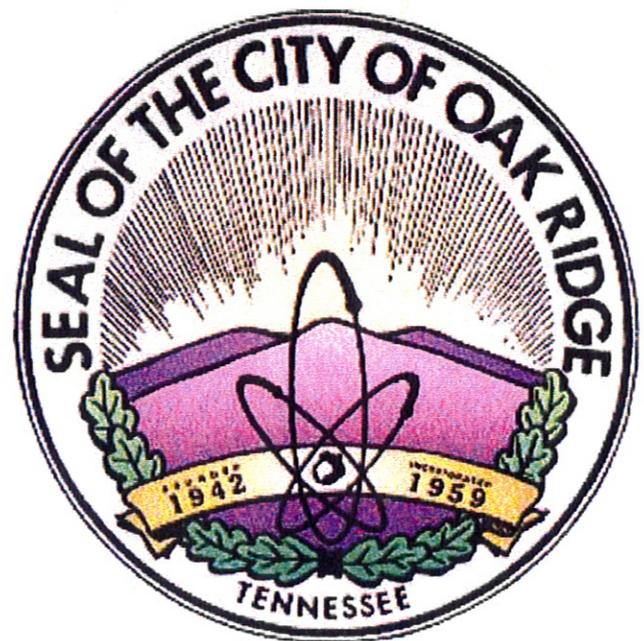


Section II of this report addresses the activities of the second quarter after receipt of the Order.



**SECTION II:**

**ACTIONS DURING  
THE SECOND QUARTER**



## SECTION II

### ACTIONS DURING THE SECOND QUARTER

#### A. Activities of the Old Program

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

During the second quarter work under the "old program" continued. Contract "O" has been substantially designed. Contract "O" is to address issues in the Emory Valley Sewershed and rehabilitate three (3) pumping stations. Over the life of the "old project" ten (10) pumping stations have been upgraded.

As a continuation of investigative work in the system, the City has continued to inspect sewers by closed circuit television (CCTV) using in-house personnel and equipment. Physically inspecting manholes was performed during the second quarter.



During the second quarter, sewers in the following mini-basins were inspected using CCTV.

Mini-System	Total Inspected
W-11	11,791.5
W-20	3,187.9
E-30	762.4
E-31	793.6
E-5B	299.4
E-14	151.2
E-18	144.1
E-19	222.3
E-20	733.1
E-21	241.2
E-24	237.2
	<b>18,563.90</b>



During the second quarter, there were 3,824 manholes inspected in the following mini-basins:

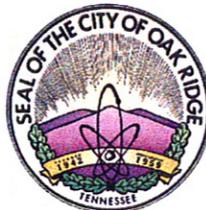
MH INSPECTIONS	MH'S INSPECTED	PENDING	CAN NOT LOCATE
E1	85	0	1
E2	164	0	3
E3	5	0	3
E4	47	1	0
E5A	27	1	0
E5B	4	0	0
E7	56	0	2
E8	72	0	0
E10	0	0	1
E11	22	0	0
E12	280	5	8
E13A	33	2	3
E13B	34	1	1
E14	4	0	0
E14A	4	0	0
E15	5	0	0
E16	1	0	0
E21	1	0	0
E22	9	0	0
E23	30	1	0
E24	5	0	0
E25	18	0	1
E26	4	0	0
E27	3	0	0
E28	17	0	2
E29	82	1	2
E29A	25	0	0
E30	27	0	1



**Second Quarterly Report**  
**United States Environmental Protection Agency**  
**Period: January 1, 2011 – March 31, 2011**

**City of Oak Ridge, Tennessee**

<b>MH INSPECTIONS</b>	<b>MH'S INSPECTED</b>	<b>PENDING</b>	<b>CAN NOT LOCATE</b>
E31	26	1	1
W2	92	0	3
W3	157	0	9
W4	139	1	7
W5	263	0	8
W5A	12	0	0
W6	10	0	0
W7	11	0	0
W8	192	0	0
W9	92	0	6
W10	42	0	2
W11	96	0	4
W12	207	2	5
W13	164	0	6
W14	81	0	0
W15	100	2	1
W16	155	0	9
W17	48	1	3
W18A	151	0	8
W18B	61	0	2
W18C	28	0	0
W18D	39	1	4
W18E	3	0	0
W18G	71	0	1
W18H	21	0	0
W19	79	0	0
W20	34	1	0
W21	6	0	0
W22	29	0	1
W23	58	0	2
W25	2	0	0
W26	142	0	12



MH INSPECTIONS	MH'S INSPECTED	PENDING	CAN NOT LOCATE
W26A	90	0	1
W28	6	0	1
W29	26	0	0
W30	6	0	0
W32	10	0	1
W34	11	0	0
<b>TOTAL</b>	<b>3,824</b>	<b>21</b>	<b>125</b>

**B. Second Quarter Activities Relative to the Order**

Lamar Dunn & Associates, Inc. (LD&A) continues to assist the City with various tasks required by the Order.

The Order requires a GIS program. During the second quarter, the GIS program continued to be constructed. Time was spent refining the various layers and a naming convention for asset management, and entering various field data..

The Order requires a Sanitary Sewer Overflow Response Plan (SORP) to be submitted for review by March 30, 2011. The document was submitted on time.

Item 16D(i) of the Order requires the City to submit an information Management System. A committee of City personnel and the consultant continued to be active during the second quarter to determine the best approach for compliance with this portion of the Order.



The City staff selected INFOR as the vendor for the IMS software. Staff and representatives of the software vendor made a presentation to the City Council as to their intentions of compliance relative to IMS. The final council action for purchase will be during the third quarter.

The Capacity Assessment Plan was submitted within the required schedule, as was the Sanitary Sewer Evaluation Survey Work Plan. The pumping station committee is developing the maintenance and operations documents. The committee is the City's Maintenance Supervisor, an electrical engineer of LD&A, and an operations specialist with LD&A.

The City has purchased three (3) rain gauges, as required for the two required work efforts. Also, the City has purchased additional flow monitoring equipment to augment those already in their possession.

The City engineer, sewer maintenance personnel, and LD&A personnel are developing the sewer maintenance document required.

The Public Works Director, Staff Engineer, and Consultant have been active during the second quarter reviewing MOM requirements and preparing drafts of several sections.



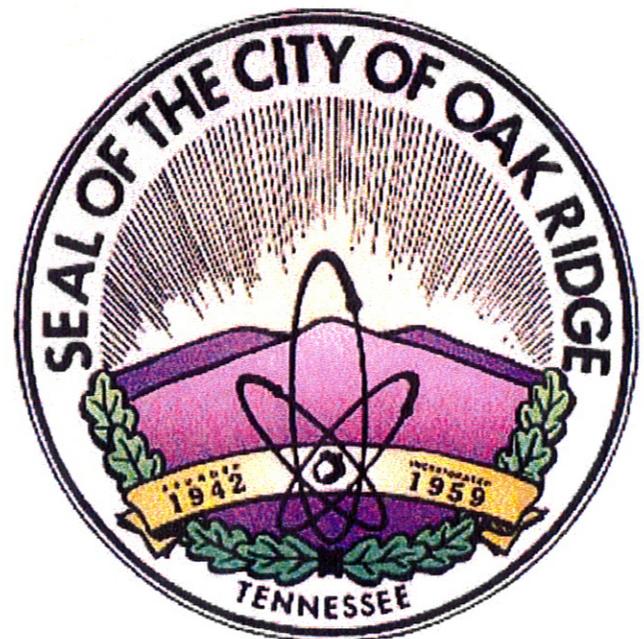
In Section IV of the first quarterly report, there was a discussion relative to flow contribution to the City from the Federal Y-12 facility. Appendix B shows flows from Y-12 of storm events during the second quarter.

Staff from the City and the Federal nuclear facility at Y-12 have been in several discussions regarding the large flows leaving their collection system, at times, overwhelming the City system downstream. Field investigations at Y-12 have revealed several large sources of inflow from their storm sewer system and they have been actively seeking resources to eliminate them. City staff has been satisfied that the Y-12 management and staff understand the severity of the problem and the need to rectify the situation promptly



## **SECTION III:**

# **SSO's DURING SECOND QUARTER**

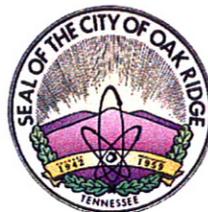


### SECTION III

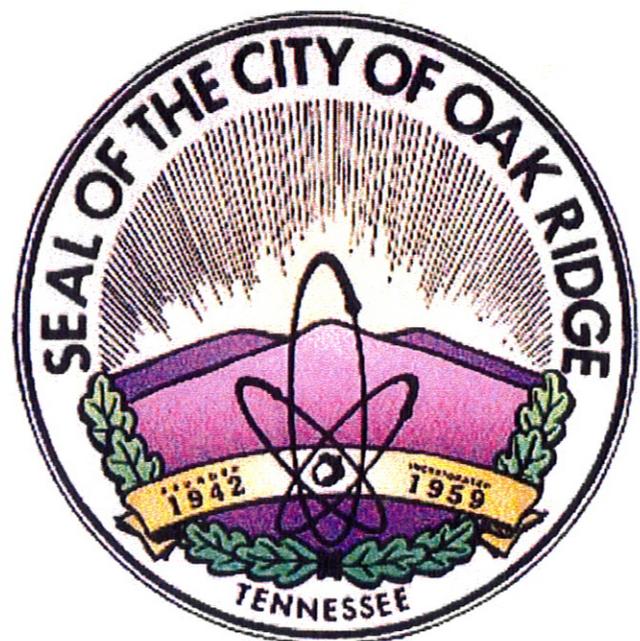
#### SSO's DURING SECOND QUARTER

During the second quarter, there were three major storm events. Appendix A contains the report sheets for each overflow that occurred during the second 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: SSO's REPORT SHEETS FOR SECOND QUARTER



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

## 2nd Quarterly Report - January 1, 2011 to March 31, 2011

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
1/1/2011	Athens Road		1250		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
1/1/2011	Athens Road	119	110000		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
1/1/2011	Bay Path Drive	108	12500		City continues work to correct I&I	<input checked="" type="checkbox"/>	Emory Valley Creek
1/1/2011	Cairo Lane	151	180000		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
1/1/2011	Dresden Road	100	42500		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Ernie's Creek
1/1/2011	Illinois Avenue, South	216	122800		City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/1/2011	Illinois Avenue, South	324	1095		City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/1/2011	Indian Lane	109	3660		City continues work to correct I&I	<input type="checkbox"/>	
1/1/2011	Iroquois Road		44000		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Melton Lake Drive	695	123000		City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
1/1/2011	Oak Ridge Turnpike	1289	38250		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Oak Ridge Turnpike	1403	142000		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Oak Ridge Turnpike	1403	32500		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Oak Ridge Turnpike	1403	46500		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Oak Ridge Turnpike	480	6750		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Ernie's Creek
1/1/2011	Oak Ridge Turnpike	535	61250		City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
1/1/2011	Purdue Avenue, North	117	42500		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Robertsville Road	270	4830		City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
1/1/2011	Tusculum Drive	191	80575		City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
1/4/2011	Utica Circle	215	240			<input type="checkbox"/>	
1/14/2011	Outer Drive	191	34			<input type="checkbox"/>	
1/19/2011	Bear Creek Road	1549	150	Orifice on air release valve was leaking through, filling the valve pit	Will replace the air release valve	<input type="checkbox"/>	
1/29/2011	Iroquois Road	254	72	City crew was doing routine drilling. Running jet rodder down stream due to a 14% slope.	Homeowner waid he would install a check valve provided by the city on his lateral	<input type="checkbox"/>	
1/31/2011	Dallas Lane	100	600	Contractor failed to connect homeowners sewer lateral into the sewer main after sliplining	Dug up and tied lateral into sewer main.	<input type="checkbox"/>	
2/5/2011	Byron Lane	212	20	Found manhole holding but not overflowing during MH inspection. Saw hung up at lower manhole putting extra water into pipe which overflowed slightly at upper manhole	Believe line is broken down at manhole which hung up root saw.	<input type="checkbox"/>	
2/7/2011	Thelma Road	107 1/2	1125	Shop Towel		<input type="checkbox"/>	
2/25/2011	Monterey Road	200	3470	Screen Bldg. Main breaker tripped causing screens to overflow. Flow overcame drains in bldg. and excess went to storm drains	Reset breaker which restored power to bldg.	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/28/2011	Athens Road		1300	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
2/28/2011	Athens Road	119	179500	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
2/28/2011	Bay Path Drive	108	25300	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Emory Valley Creek

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
2/28/2011	Cairo Lane	151	55650	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I. MH#G22-13 was incorrectly listed as the point of overflow on the 24 hr notification. The correct MH # is G22-14	<input checked="" type="checkbox"/>	Ernie's Creek
2/28/2011	Dillard Avenue, South	200	25	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input type="checkbox"/>	
2/28/2011	Dresden Road	100	28900	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days		<input checked="" type="checkbox"/>	Tributary to Ernie's Creek
2/28/2011	Illinois Avenue, South	216	120575	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/28/2011	Illinois Avenue, South	324	21600	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/28/2011	Iroquois Road		52500	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Jay Lane	109	298	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input type="checkbox"/>	
2/28/2011	Melton Lake Drive	695	124250	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
2/28/2011	Newkirk Lane, West	116	1800	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/28/2011	Oak Ridge Turnpike	1289	6400	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Oak Ridge Turnpike	1403	52000	Excessive rainfall 2.41 inches in 3 hours combined with 2 inches of rainfall from previous days	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to 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
2/28/2011	Oak Ridge Turnpike	1403	52000	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Oak Ridge Turnpike	1403	158000	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Oak Ridge Turnpike	470	8800	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Ernie's Creek
2/28/2011	Oak Ridge Turnpike	535	43200	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
2/28/2011	Providence Road	110	12000	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Purdue Avenue, North	117	138875	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Quincy Avenue	106	1560	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/28/2011	Robertsville Road	270	24750	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
2/28/2011	Robertsville Road	451	36250	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary stream to East Fork Poplar Creek
2/28/2011	Tusculum Drive	191	39000	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
2/28/2011	Wilberforce Avenue	276	100	Excessive rainfall 2.41 inches of rain in 3 hours combined with 2 inches of rainfall from previous days	rain City continues work to correct I&I	<input type="checkbox"/>	
3/6/2011	Athens Road	119	195000	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
3/6/2011	Cairo Lane	151	106500	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
3/6/2011	Dresden Road	100	108000	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Ernie's Creek
3/6/2011	Illinois Avenue, South	216	104000	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
3/6/2011	Melton Lake Drive	695	86100	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
3/6/2011	Oak Ridge Turnpike	1403	134000	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/6/2011	Oak Ridge Turnpike	1403	132000	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/6/2011	Oak Ridge Turnpike	1403	132000	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/6/2011	Oak Ridge Turnpike	535	166500	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek
3/6/2011	Purdue Avenue, North	117	180400	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/6/2011	Tusculum Drive	191	26250	2.44 inches of rainfall. Ground still saturated from previous 2.41 inches of rainfall 2/28/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
3/9/2011	Athens Road	119	31500	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Tributary to Melton Hill Lake
3/9/2011	Cairo Lane	151	17250	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Ernie's Creek

Start Date	St Name	St #	Est Tot Flow (Gal)	Explain OF Cause	Other Measures	Flow in Surface	Name of Surface Water
3/9/2011	Illinois Avenue, South	216	54000	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	East Fork Poplar Creek
3/9/2011	Melton Lake Drive	695	26500	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I	<input checked="" type="checkbox"/>	Melton Hill Lake
3/9/2011	Oak Ridge Turnpike	1403	64625	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/9/2011	Oak Ridge Turnpike	1403	14000	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/9/2011	Oak Ridge Turnpike	470	1750	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I. Address was incorrect on the 24 hour notification. 470 Oak Ridge Turnpike is the correct address, initial notice had 480.	<input checked="" type="checkbox"/>	Tributary to Ernie's Creek
3/9/2011	Oak Ridge Turnpike	535	27900	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	Ernie's Creek
3/9/2011	Purdue Avenue, North	117	105000	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	Tributary to East Fork Poplar Creek
3/9/2011	Tusculum Drive	191	18100	1.71 inches of rainfall. Ground still saturated from previous 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	East Fork Poplar Creek
3/10/2011	Melton Lake Drive	695	34000	5.7 inches of rainfall. Ground still saturated from previous 1.71 inches on 3/9/11 and 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	Melton Hill Lake
3/10/2011	Purdue Avenue, North	117	50500	5.7 inches of rainfall. Ground still saturated from previous 1.71 inches on 3/9/11 and 2.44 inches of rainfall on 3/6/11	City continues work to correct I&I.	<input checked="" type="checkbox"/>	Tributary to 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
3/15/2011	Scarboro Road		90000	Round break on cast iron sewer force main. (Exact location of occurrence, Scarboro Road, 560 feet south of Chesapeake Drive	Repaired the sewer force main	<input checked="" type="checkbox"/>	Tributary to Clinch River
3/21/2011	Newkirk Lane, East	102	2	City sewer crew was doing routine sewer cleaning. Water got into the house due to faulty wax ring underneath the toilet	Debris cleaned. Homeowner will need to get a plumber to make repairs	<input type="checkbox"/>	
3/28/2011	Geneva Lane, East	102	15	Roots blocking sewer main		<input type="checkbox"/>	
3/30/2011	Tyson Road	135	1	Water splashed out of toilet due to cleaning of the sewer main		<input type="checkbox"/>	

LOCATION: Athens @ E. Arrowwood LOCATION DATA 1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E11 Map Page # E-23 Manhole # D-1010 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 7:00 AM  PM  End Date: 1/1/2011 Time: 11:10 AM  PM

Duration 4hrs/10mins hours/minutes Est. Flow Rate: 5 gpm Estimated Total Flow: 1,250 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by [Signature] Title: Operator Date: 1-7-11

Reviewed by [Signature] Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Notification to TDEC [Signature] Title: Operations Manager Date: 1-7-11

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED

[Handwritten initials]

CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 119 Athens Rd.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E11 Map Page # E-22 Manhole # D-1018 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 11:00 AM  PM  End Date: 1/1/2011 Time: 2:40 AM  PM

Duration 3hrs/40mins hours/minutes Est. Flow Rate: 500 gpm Estimated Total Flow: 110,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: Operator Date: 1-7-11

Reviewed by Kathy Stout Title: Operations + Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Scott Johnson Title: Operations Manager Date: 1-7-11  
Notification to TDEC

Final Review Ray Corder Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 108 Baypath Dr.-Reported As 111 Baypath

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E5B Map Page # L-22 Manhole # L22-4 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 12:25 AM  PM  End Date: 1/1/2011 Time: 2:30 AM  PM

Duration 2hrs/5mins hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 12,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: 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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: Operator Date: 1-7-11

Reviewed by Kick Brown Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-7-11

Final Review Greg Cook Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED

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LOCATION: 151 Cairo Ln. LOCATION DATA 1st Occurrence at this location? Y [checked] N [ ]

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E13B Map Page # F-22 Manhole # F22-13 Force Main: [ ]

FLOW DATA

Start Date: 1/1/2011 Time: 11:15 AM [checked] PM [ ] End Date: 1/1/2011 Time: 6:45 AM [ ] PM [checked]

Duration 7hrs/30mins hours/minutes Est. Flow Rate: 400 gpm Estimated Total Flow: 180,000 gallons

CAUSES

(Check all that apply)

Rainfall [checked] [Estimated amount 2.6 in] Power Outage [ ] Equipment Failure [ ]

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

Explain causes of overflow:

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded [ ] Nozzle [ ] Root Saw [ ] Lid Removed [ ] Lined [checked] 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 [checked] No [ ] Name of surface water: Tributary to Melton Hill Lake

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

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

Other (describe)

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

Names of Responders: Trevor Gallaher, Mark Daniel

Report completed by [Signature] Title: Operator Date: 1-7-11

Reviewed by [Signature] Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Notification to TDEC [Signature] Title: Operations Manager Date: 1-7-11

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: [Signature] Date: 1/7/11

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LOCATION: 100 Dresden LOCATION DATA 1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E13A Map Page # F-20 Manhole # F-701A Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 11:30 AM  PM  End Date: 1/1/2011 Time: 2:20 AM  PM

Duration 2hrs/50mins hours/minutes Est. Flow Rate: 250 gpm Estimated Total Flow: 42,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: operator Date: 1-7-11

Reviewed by Rick Lewis Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Scott Jackson Title: Operations Manager Date: 1-7-11  
Notification to TDEC

Final Review Kathy Stout Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAX

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 324 S. Illinois Ave.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W18A Map Page # J12 Manhole # old-8A, new-J12-11 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:03 AM  PM  End Date: 1/1/2011 Time: 12:42 AM  PM

Duration 3hrs/39mins hours/minutes Est. Flow Rate: 5 gpm Estimated Total Flow: 1,095 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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, Todd Baker

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Rick Clavin Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: David Patterson Date: 1/3/11

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-6-11

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED JK5

CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 216 S. Illinois Ave

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/3/2010

POINT OF OCCURANCE

Manhole:  Clean Out:  In-House Backup:  Lift 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: 1/1/2011 Time: 8:53 AM  PM  End Date: 1/1/2011 Time: 2:00 AM  PM

Duration 5hrs / 7min hours/minutes Est. Flow Rate: 400 gpm Estimated Total Flow: 122,800 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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, Todd Baker

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Nick Lawren Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: David Patterson Date: 1/3/2011

After Review & Notification to TDEC By: Scott Jackson Title: Operations Manager Date: 1-6-11

Final Review By: [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAKED KSL

LOCATION: 109 Indian Pl. 1st Occurrence at this location? Y [X] N [ ]

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W11 Map Page # D-10 Manhole # Force Main: [ ]

FLOW DATA

Start Date: 1/1/2011 Time: 10:08 AM [X] PM [ ] End Date: 1/1/2011 Time: 12:10 AM [ ] PM [X]

Duration 2hrs/2mins hours/minutes Est. Flow Rate: 30 gpm Estimated Total Flow: 3,660 gallons

CAUSES

(Check all that apply)

Rainfall [X] [Estimated amount 2.6 in] Power Outage [ ] Equipment Failure [ ] Broken Sewer [ ] Blocked line from Roots [ ] Grease [ ] Collapse [ ] Other [ ]

Explain causes of overflow:

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

Line was: Jet Rodded [ ] Nozzle [ ] Root Saw [ ] Lid Removed [ ] Lined [X] 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 [X] Name of surface water:

Ran on/in: Ground & absorbed into soil [X] Ditch [ ] 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: David Patterson, Todd Baker

Report completed by [Signature] Title: Maintenance Specialist Date: 1-6-2011

Reviewed by [Signature] Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: Failed to do 24 hr notice. SOME CONFUSION AS TO WHETHER IT WAS HOMEOWNER'S PROBLEM. T-P Date:

After Review & [Signature] Title: Operations Manager Date: 1-6-11 Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED [Signature]

CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Iroquois Rd @ Robertsville Rd.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W11 Map Page # E10 Manhole # Old-2-82, New-AP5 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:33 AM  PM  End Date: 1/1/2011 Time: 12:13 AM  PM

Duration 2hrs/40mins hours/minutes Est. Flow Rate: 275 gpm Estimated Total Flow: 44,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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, Todd Baker

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Rick Brown Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: David Patterson Date: 1/3/11

After Review & Scott Jackson Title: Operations Manager Date: 1-6-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAKED  
[Signature]

CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 695 Melton Lake Dr.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

Manhole:  Clean Out:  In-House Backup:  Lift Station: Name: Marina or None or None

If Manhole; Give Mini-system # E20 Map Page # L-24 Manhole # L24-1 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 12:15 AM  PM  End Date: 1/1/2011 Time: 10:30 AM  PM

Duration 10hrs/15mins hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 123,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: operator Date: 1-7-11

Reviewed by Kirk Lawrie Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Scott Jackson Title: Operations Manager Date: 1-7-11  
Notification to TDEC

Final Review Myra Corder Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

**FAKED**

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1289 O.R.T.-Reported As 1284 Main St. E. 1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-13 Manhole # old-G13-12, new-D-22 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:50 AM  PM  End Date: 1/1/2011 Time: 2:05 AM  PM

Duration 4hrs/15mins hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 38,250 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: Operator Date: 1-7-11

Reviewed by Rich Lawin Title: Operations & Maint. Manager Date: 4/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Notification to TDEC Scott Johnson Title: Operations Manager Date: 1-7-11

Final Review Greg Curda Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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**CITY OF OAK RIDGE**

REPORT DATE: 1/5/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 1403 Oak Ridge Turnpike

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence:

**POINT OF OCCURANCE**

Manhole:  Clean Out:  In-House Backup:  Lift Station: Name: **None or None or None**

If Manhole; Give Mini-system # **W5** Map Page # **G-12** Manhole # **old-G12-1, new-D-4** Force Main:

**FLOW DATA**

Start Date: 1/1/2011 Time: 9:30 AM  PM  End Date: 1/1/2011 Time: 2:55 AM  PM

Duration **5hrs/25mins** hours/minutes Est. Flow Rate: **100** gpm Estimated Total Flow: **32,500** gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount **2.6** in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

**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: **Trevor Gallaher, Mark Daniel**

Report completed by *Mark Daniel* Title: *Operator* Date: *1-7-11*

Reviewed by *Kirk Lawton* Title: *Operations & Maint. Manager* Date: *1/7/11*

Initial TDEC Notification By: **Trevor Gallaher** Date: **1/3/11**

After Review & Notification to TDEC *Scott Johnson* Title: *Operations Manager* Date: *1-7-11*

Final Review *Scott Johnson* Title: *Public Works Director* Date: *1/7/11*

Final Report Transmitted to TDEC By: *Kathy Stout* Date: *1/7/11*

**FAXED**

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-12 Manhole # old-G12-2, new-D-5 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:40 AM  PM  End Date: 1/1/2011 Time: 2:50 AM  PM

Duration 5hrs/10mins hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 46,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: Operator Date: 1-7-11

Reviewed by Rick Laurin Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Scott Johnson Title: Operations Manager Date: 1-7-11  
Notification to TDEC

Final Review Kathy Stout Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED

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LOCATION DATA

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

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-11 Manhole # old-G11-8, new-D-3 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:15 AM  PM  End Date: 1/1/2011 Time: 3:10 AM  PM

Duration 5hrs/55mins hours/minutes Est. Flow Rate: 400 gpm Estimated Total Flow: 142,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: operator Date: 1-7-11

Reviewed by Kathy Stout Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-7-11

Final Review Scott Conder Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 480 Oak Ridge Turnpike

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E10 Map Page # F-20 Manhole # Old-E814, New-F20-16 Force Main:

connected 01/12/11 FLOW DATA

Start Date: 1/1/2011 Time: 12:00 AM  PM  End Date: 1/1/2011 Time: 2:15 AM  PM

Duration 2hrs/15mins hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 6,750 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: Operator Date: 1-7-11

Reviewed by Bob Clavin Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Bob Clavin Title: Operations Manager Date: 1-7-11  
Notification to TDEC

Final Review Kathy Stout Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

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: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E13A Map Page # G-20 Manhole # F-702 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 11:50 AM  PM  End Date: 1/1/2011 Time: 2:45 AM  PM

Duration 2hrs/55mins hours/minutes Est. Flow Rate: 350 gpm Estimated Total Flow: 61,250 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Trevor Gallaher, Mark Daniel

Report completed by Mark Daniel Title: operator Date: 1-7-11

Reviewed by Kate Swain Title: Operations & Maint. Manager Date: 1/7/11

Initial TDEC Notification By: Trevor Gallaher Date: 1/3/11

After Review & Scott Johnson Title: Operations Manager Date: 1-7-11  
Notification to TDEC

Final Review Scott Johnson Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 117 N. Purdue

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # **W5A** Map Page # **G15** Manhole # **Old-G15-13, New-DN-1** *Rel* Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 12:50 AM  PM  *01/21/11* End Date: 1/1/2011 Time: 3:40 AM  PM

Duration **2hrs/50mins** hours/minutes Est. Flow Rate: **250** gpm Estimated Total Flow: **42,500** gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount **2.6** in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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, Todd Baker**

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Kirk Shurin Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: **David Patterson** Date: **1/3/11**

After Review & Notification to TDEC Scott Johnson Title: Operations Manager Date: 1-6-11

Final Review Scott Johnson Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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LOCATION: 270 Robertsville Rd. LOCATION DATA 1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W11 Map Page # E10 Manhole # 2-80 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:31 AM  PM  End Date: 1/1/2011 Time: 12:12 AM  PM

Duration 2hrs/41mins hours/minutes Est. Flow Rate: 30 gpm Estimated Total Flow: 4,830 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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, Todd Baker

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Rick Arvin Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: David Patterson Date: 1/3/11

After Review & Scott Pechron Title: Operations Manager Date: 1-6-11 Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

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: 11/30/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W19 Map Page # H11 Manhole # Old-H113A, New-H11-4 Force Main:

FLOW DATA

Start Date: 1/1/2011 Time: 9:04 AM  PM  End Date: 1/1/2011 Time: 1:57 AM  PM

Duration 4hrs/53mins hours/minutes Est. Flow Rate: 275 gpm Estimated Total Flow: 80,575 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.6 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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, Todd Baker

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Rob Lawson Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: David Patterson Date: 1/3/11

After Review & Scott Jackson Title: Operations Manager Date: 1-6-11  
Notification to TDEC

Final Review Myra C... Title: Public Works Director Date: 1/5/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

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CITY OF OAK RIDGE

REPORT DATE: 1/5/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 215 Utica Cir.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W4 Map Page # J-11 Manhole # J-11-3 Force Main:

FLOW DATA

Start Date: 1/5/2011 Time: 7:30 AM  PM  End Date: 1/4/2011 Time: 9:30 AM  PM

Duration 2hrs hours/minutes Est. Flow Rate: 2 gpm Estimated Total Flow: 240 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: Tony Morris, David Patterson, Rodney Anderson, Joey Wheeler

Report completed by David Patterson Title: Maintenance Specialist Date: 1-6-2011

Reviewed by Rick Clavin Title: Operations & Maint. Manager Date: 1/6/2011

Initial TDEC Notification By: David Patterson Date: 1/4/11

After Review & Scott Johnson Title: Operations Manager Date: 1-6-11 Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 1/7/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/7/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 1/14/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 191 Outer Dr.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E2 Map Page # C15 Manhole # C15-45 Force Main:

FLOW DATA

Start Date: 1/14/2011 Time: 11:33 AM  PM  End Date: 1/14/2011 Time: 11:50 AM  PM

Duration 17 Min. hours/minutes Est. Flow Rate: 2 gpm Estimated Total Flow: 34 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow:

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: David Patterson, Tony Morris, Rodney Anderson, Mark Maples

Report completed by David Patterson Title: Maintenance Specialist Date: 1-18-2011

Reviewed by Rick Luvini Title: Operations & Maint. Manager Date: 1/18/2011

Initial TDEC Notification By: David Patterson Date: 1/14/2011

After Review & Scott Jackson Title: Operations Manager Date: 1-18-11  
Notification to TDEC

Final Review Greg Corder Title: Public Works Director Date: 1/18/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 1/14/11



**CITY OF OAK RIDGE**

REPORT DATE: 1/20/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0078051

**LOCATION DATA**

LOCATION: 1549 Bearcreek Rd.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence:

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # Map Page # 7 Manhole # Force Main:

**FLOW DATA**

Start Date: 1/19/2011 Time: 3:15 AM  PM  End Date: 1/19/2011 Time: 4:30 AM  PM

Duration 1 hr 15 min hours/minutes Est. Flow Rate: 2 gpm Estimated Total Flow: 150 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: **Orifice on air release valve was leaking through filling the valve pit.**

**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: **Will replace the air release valve.**

**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: **Mike Brown, Chris Webb**

Report completed by Michael Deane Title: Utility Line Crew Chief Date: 1-21-2011

Reviewed by Rick Loumi Title: Operations & Maint. Manager Date: 1/21/2011

Initial TDEC Notification By: **Mike Brown** Date: **1/19/11**

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 1-21-11

Final Review Myra Cundy Title: Public Works Director Date: 1/21/11

Final Report Transmitted to TDEC By: [Signature] Date: 1-21-11

CITY OF OAK RIDGE

REPORT DATE: 2/1/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 254 Iroquois Road

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 12/12/2002

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W11 Map Page # C-10 Manhole # Force Main:

FLOW DATA

Start Date: 1/29/2011 Time: 1:45 AM  PM  End Date: 1/29/2011 Time: 2:03 AM  PM

Duration 18 Minutes hours/minutes Est. Flow Rate: 4 gpm Estimated Total Flow: 72 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: City crew was doing routine drilling. Running jet rodder down stream due to a 14% slope.

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: Home owner said he would install a check valve provided by the City on his lateral.

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 1 Use (i.e., commercial, residential) Residential

Other (describe)

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

Names of Responders: Brian Simmons, Rodney Anderson, Thomas Martin, Doug Farmer

Report completed by Brian Simmons Title: UTILITY SPECIALIST Date: 2-1-11

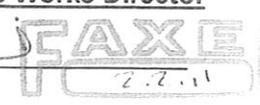
Reviewed by Rich Brown Title: Operations & Maint. Manager Date: 2/2/11

Initial TDEC Notification By: Brian Simmons Date: 1-29-11

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 2-2-11

Final Review Steve R. Bond Title: Public Works Director Date: 2-2-11

Final Report Transmitted to TDEC By: [Signature] Date: 2.2.11



CITY OF OAK RIDGE

REPORT DATE: 2/1/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 100 Dallas Ln

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E10 Map Page # E-20 Manhole # Force Main:

FLOW DATA

Start Date: 1/31/2011 Time: 4:30 AM  PM  End Date: 2/1/2011 Time: 2:30 AM  PM

Duration 10 hours hours/minutes Est. Flow Rate: 1 gpm Estimated Total Flow: 600 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Contractor failed to connect homeowners sewer lateral back into the sewer main after slip-lining.

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: Dug up and tied lateral into sewermain.

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: Trevor Gallaher, Mark Daniel, Doug Farmer

Report completed by Trevor Gallaher Title: Sewer Crew Chief Date: 2-2-11

Reviewed by Scott Jackson Title: Operations & Maint. Manager Date: 2/2/11

Initial TDEC Notification By: Trevor Gallaher Date: 2-1-11

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 2-2-11

Final Review Steve R. Rind Title: Public Works Director Date: 2-2-11

Final Report Transmitted to TDEC By: [Signature] Title: FOA Date: 2.2.11

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CITY OF OAK RIDGE

REPORT DATE: 2/8/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION: 212 <sup>KS</sup> East Byron Ln.

LOCATION DATA  
1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # w-18G Map Page # D-04 Manhole # D4-37 Force Main:

FLOW DATA

Start Date: <sup>Gre</sup> 1/5/2011 Time: 4:00 AM  PM  End Date: <sup>Gre</sup> 1/5/2011 Time: 4:15 AM  PM  <sup>01 KS</sup>

Duration 1 min hours/minutes Est. Flow Rate: 20 gpm Estimated Total Flow: 20 gallons

CAUSES

(Check all that apply)

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

Explain causes of overflow: Found manhole holding but not overflowing during MH inspection. Saw hung up at lower manhole putting extra water into pipe which overflowed slightly at upper 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: I believe line is broken down at manhole which hung up root saw.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes  No  Name of surface water: N/A

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: Mike Brown/ Anthony hooks

Report completed by Michael Brown Title: Utility line crew chief Date: 2-8-11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Mike Brown Date: 2/7/2011

After Review & Scott Johnson Title: Operations Manager Date: 2-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 2/9/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/9/11

**FAXED**  
Connection  
re-faxed 2/10/11

CITY OF OAK RIDGE

REPORT DATE: 2/8/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1071/2 Thelma Road

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2000

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E9 Map Page # E-19 Manhole # D712 Force Main:

FLOW DATA

Start Date: 2/7/2011 Time: 10:00 AM  PM  End Date: 2/7/2011 Time: 10:45 AM  PM

Duration 45 min hours/minutes Est. Flow Rate: 25 gpm Estimated Total Flow: 1,125 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Shop Towel

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: Tony Morris, David Patterson, Mark Maples

Report completed by Anthony Morris Title: Sewer crew chief Date: 2-9-11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Tony Morris Date: 2/7/11

After Review & Scott Johnson Title: Operations Manager Date: 2-9-11  
Notification to TDEC

Final Review W. J. C... Title: Public Works Director Date: 2/9/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 2/9/11

**FIXED**  
connection  
re-faxed 2/10/11

CITY OF OAK RIDGE

REPORT DATE: 2/25/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Wastewater Treatment Plant 200 Monterey Road

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 4/5/2010

POINT OF OCCURANCE

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

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

FLOW DATA

Start Date: 2/25/2011 Time: 2:04 AM  PM  End Date: 2/25/2011 Time: 2:14 AM  PM

Duration 10 minutes hours/minutes Est. Flow Rate: 347 gpm Estimated Total Flow: 3,470 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Main breaker to screen bldg tripped causing screens to overflow. Flow overcame drains in bldg and excess went to storm drains.

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: Reset main breaker which restored power to bldg.

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: William Sharp

Report completed by Robert Currier Title: WWTP operations supervisor Date: 2/25/11

Reviewed by Rich Currier Title: Operations & Maint. Manager Date: 2/28/11

Initial TDEC Notification By: Bob Currier Date: 2/25/11

After Review & Scott Jackson Title: Operations Manager Date: 2-28-11  
Notification to TDEC

Final Review W. Currier Title: Public Works Director Date: 2/28/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/1/11

FAKED

**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: Athens@E.Arrowwood.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # E11 Map Page # E-23 Manhole # D-1010 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 4:01 AM  PM  End Date: 2/28/2011 Time: 4:53 AM  PM

Duration 52min hours/minutes Est. Flow Rate: 25 gpm Estimated Total Flow: 1300 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

**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: Brian Simmons, Thomas Martin

Report completed by Rick Louvin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. Corder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

**FAX!**

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 119 Athens

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E11 Map Page # E-22 Manhole # D-1018 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 5:00 AM  PM  End Date: 2/28/2011 Time: 10:59 AM  PM

Duration 5hrs./59min hours/minutes Est. Flow Rate: 500 gpm Estimated Total Flow: 179,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

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: Brian Simmons, Thomas Martin

Report completed by Rick Sturin Title: Operations + Maint. Manager Date: 3/3/11

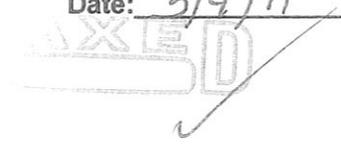
Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kott Johnson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11



**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 108 Baypath Dr.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # E5B Map Page # L-22 Manhole # L22-4 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 4:49 AM  PM  End Date: 2/28/2011 Time: 6:21 AM  PM

Duration 1hr./32min. hours/minutes Est. Flow Rate: 275 gpm Estimated Total Flow: 25,300 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from the previous days.

**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: 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, Mark Maples

Report completed by *Rich Lewis* Title: *Operations & Maint. Manager* Date: *3/3/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & *Scott Jackson* Title: *Operations Manager* Date: *3-3-11*  
Notification to TDEC

Final Review *W. C. ...* Title: *Public Works Director* Date: *3/3/11*

Final Report Transmitted to TDEC By: *Kathy Stout* Date: *3/4/11*

**FAXED**

✓

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 151 Cairo Ln.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 12/1/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E5B Map Page # G-22 Manhole # G22-14 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 4:41 AM  PM  End Date: 2/28/2011 Time: 10:52 AM  PM

Duration 6hrs./11min hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 55,650 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.25 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

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. MH# G22-13 was incorrectly listed as the point of overflow on the 24 hr notification. The correct MH# is MH# G22-14.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes  No  Name of surface water: 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: Brian Simmons, Thomas Martin

Report completed by Nick Owen Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Weg Corder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED



CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

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: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E13A Map Page # F-20 Manhole # F-701A Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 3:13 AM  PM  End Date: 2/28/2011 Time: 8:02 AM  PM

Duration 4hrs./49min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 28,900 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from the previous days.

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: Tributary to 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: Brian Simmons, Thomas Martin

Report completed by Kirk Brown Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kath Stout Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Kathy Stout Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

✓

CITY OF OAK RIDGE

REPORT DATE: 3/1/2011

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: 1/1/2011

POINT OF OCCURANCE

Manhole:  Clean Out:  In-House Backup:  Lift 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: 2/28/2011 Time: 1:50 AM  PM  End Date: 2/28/2011 Time: 8:01 AM  PM

Duration 6hrs / 11min. hours/minutes Est. Flow Rate: 325 gpm Estimated Total Flow: 120575 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

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, Mark Maples

Report completed by Kirk Clavin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Wesley C... Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED



CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 324 S. Illinois Ave.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W18A Map Page # J12 Manhole # Old-8A,new-J12-11 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 2:04 AM  PM  End Date: 2/28/2011 Time: 5:40 AM  PM

Duration 3hrs/36min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 21,600 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

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) Commercial Papa Johns Pizza

Other (describe) Sewer came into the restroom around the toilet.

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

Names of Responders: David Patterson, Mark Maples

Report completed by Rick Lawin Title: Operations + Maint Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & Kathy Jacobson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. Corder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED



CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Iroquios Rd. @ Robertsville Rd.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W11 Map Page # E10 Manhole # Old-2-82, New-AP5 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 4:30 AM  PM  End Date: 2/28/2011 Time: 7:25 AM  PM

Duration 2hrs./55min hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 52,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

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: Trevor Gallaher, Mark Conley

Report completed by Nick Clavin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kathy Stout Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. J. Curden Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 109 Jay Ln. 1st Occurrence at this location? Y [X] N [ ]

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W12 Map Page # C-09 Manhole # C9-10 Force Main: [ ]

FLOW DATA

Start Date: 2/28/2011 Time: 2:10 AM [ ] PM [X] End Date: 2/28/2011 Time: 4:39 AM [ ] PM [X]

Duration 2hrs./29min hours/minutes Est. Flow Rate: 2 gpm Estimated Total Flow: 298 gallons

CAUSES

(Check all that apply)

Rainfall [X] [Estimated amount 2.5 in] Power Outage [ ] Equipment Failure [ ]

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

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rain from previous days.

REMEDIAL MEASURES TO CORRECT, PREVENT OR MINIMIZE FUTURE OCCURANCES

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

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

WHERE DID DISCHARGE GO (Check all that apply)

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

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

Basement Back-up [X] No. of basements 1 Use (i.e., commercial, residential) Residential

Other (describe)

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

Names of Responders: David Patterson, Mark Maples

Report completed by Rick Martin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by Title: Date:

Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & Notification to TDEC By: Matt Johnson Title: Operations Manager Date: 3-3-11

Final Review By: [Signature] Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Title: [Signature] Date: 3/4/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

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: 1/1/2011

POINT OF OCCURANCE

Manhole:  Clean Out:  In-House Backup:  Lift Station: Name: Marina or None or None

If Manhole; Give Mini-system # E20 Map Page # L-24 Manhole # L24-1 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 4:43 AM  PM  End Date: 3/1/2011 Time: 1:00 AM  PM

Duration 8hrs./17min hours/minutes Est. Flow Rate: 250 gpm Estimated Total Flow: 124,250 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

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, Mark Maples

Report completed by Bob Clavin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/1/2011

After Review & Bob Clavin Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Wj Curden Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout FAXED Date: 3/4/11

**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 116 W. Newkirk Ln.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/25/2010

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # W6 Map Page # E-14 Manhole # Old-D-109, New-DA34 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 4:10 AM  PM  End Date: 2/28/2011 Time: 6:10 AM  PM

Duration 2hrs hours/minutes Est. Flow Rate: 15 gpm Estimated Total Flow: 1,800 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rainfall in 3 hours combined with 2" of rainfall from previous days.

**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: Erries 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: Trevor Gallaher, Mark Conley

Report completed by Rick Brown Title: Operations Maint Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Scott Pachner Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Wesley Curdson Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

**FAXED**

**LOCATION DATA**  
LOCATION: 1289 Oak Ridge Turnpike 1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # W5 Map Page # G-13 Manhole # old-G13-12,new-D-22 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 4:03 AM  PM  End Date: 2/28/2011 Time: 8:19 AM  PM

Duration 4hrs./16min. hours/minutes Est. Flow Rate: 25 gpm Estimated Total Flow: 6,400 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

**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: Brian Simmons, Thomas Martin

Report completed by Rick Laurin Title: Operations & Maint Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kath Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Wj Conder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

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: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-12 Manhole # old-G12-1,new-D-4 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 5:20 AM  PM  End Date: 2/28/2011 Time: 9:40 AM  PM

Duration 4hrs./20min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 52,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

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: Trevor Gallaher, Mark Conley

Report completed by Nick Austin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kathy Stout Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Mark Conley Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

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: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-12 Manhole # old-G12-2, New-D-5 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 5:15 AM  PM  End Date: 2/28/2011 Time: 9:35 AM  PM

Duration 4hrs./20min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 52,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

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: Trevor Gallaher, Mark Conley

Report completed by Kick Lawin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kick Lawin Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Mark Conley Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/1/2011

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: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-11 Manhole # old-G11-8,new-D-3 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 4:25 AM  PM  End Date: 2/28/2011 Time: 11:00 AM  PM

Duration 6hrs./35min. hours/minutes Est. Flow Rate: 400 gpm Estimated Total Flow: 158,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

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: Trevor Gallaher, Mark Conley

Report completed by Dick Clavin Title: Operations & Maintenance Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kath Stout Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Greg Conder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 470 Oak Ridge Turnpike

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # E10 Map Page # F-20 Manhole # Old E814, New F20-25 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 5:55 AM  PM  End Date: 2/28/2011 Time: 7:45 AM  PM

Duration 1hr/50min. hours/minutes Est. Flow Rate: 80 gpm Estimated Total Flow: 8,800 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rainfall in 3 hours combined with 2" of rainfall the previous days.

**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: Trevor Gallaher, Mark Conley

Report completed by Rick Luvini Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. J. Corder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

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**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 535 Oak Ridge Turnpike

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # E13A Map Page # G-20 Manhole # F-702 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 3:22 AM  PM  End Date: 2/28/2011 Time: 8:10 AM  PM

Duration 4hrs/48min. hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 43,200 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

**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: Brian Simmons, Thomas Martin

Report completed by Aick Schumi Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kott Pachon Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Way Corder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 110 Providence Rd. 1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 12/1/2010

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W6 Map Page # F-13 Manhole # old-DD101,new-DA23 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 4:15 AM  PM  End Date: 2/28/2011 Time: 6:15 AM  PM

Duration 2hrs. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 12,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

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: Trevor Gallaher, Mark Conley

Report completed by Mark Conley Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Kath Stout Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Greg Conder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kath Stout Date: 3/4/11

FAKED

**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 117 N. Purdue

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # W5A Map Page # G15 Manhole # Old-G15-13, New-DN-1 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 2:18 AM  PM  End Date: 2/28/2011 Time: 10:43 AM  PM

Duration 8hrs,25min hours/minutes Est. Flow Rate: 275 gpm Estimated Total Flow: 138,875 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

**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, Mark Maples

Report completed by Kick Brown Title: Operations + Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

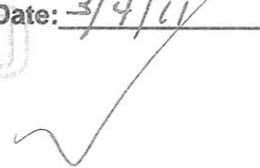
Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & Kathy Stout Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review By Curden Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED



**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 106 Quincy Ave.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence:

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # W2 Map Page # L-14 Manhole # BKB-2 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 4:09 AM  PM  End Date: 2/28/2011 Time: 6:45 AM  PM

Duration 2hrs./36min. hours/minutes Est. Flow Rate: 10 gpm Estimated Total Flow: 1,560 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

**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, Mark Maples

Report completed by Rick Brown Title: Operations + Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. C. Corder Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED



CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 270 Robertsville Rd.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W10 Map Page # E-10 Manhole # 2-80 Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 4:35 AM  PM  End Date: 2/28/2011 Time: 7:20 AM  PM

Duration 2hrs./45min. hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 24,750 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

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: Trevor Gallaher, Mark Conley

Report completed by Rick Lewis Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Trevor Gallaher Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. Conley Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED ✓

**CITY OF OAK RIDGE**

REPORT DATE: 3/2/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 451 Robertsville Rd.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 12/21/2009

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # W13 Map Page # D-7 Manhole # D7-21 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 3:00 AM  PM  End Date: 2/28/2011 Time: 5:25 AM  PM

Duration 2hrs./25min. hours/minutes Est. Flow Rate: 250 gpm Estimated Total Flow: 36,250 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

**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 to work correcting I&I.

**WHERE DID DISCHARGE GO** (Check all that apply)

Did flow run to surface water: Yes  No  Name of surface water: Tributary stream 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, Mark Maples

Report completed by Kick Lawin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 2/28/2011

After Review & Kath Jackson Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review W. Curden Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

**FAKED**

LOCATION DATA  
LOCATION: 191 Tusculum Dr. 1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 1/1/2011

**POINT OF OCCURANCE**

Manhole:  Clean Out:  In-House Backup:  Lift Station: Name: None or None or None  
If Manhole; Give Mini-system # W19 Map Page # H11 Manhole # Old-H11-3A, New-H11-4 Force Main:

**FLOW DATA**

Start Date: 2/28/2011 Time: 5:05 AM  PM  End Date: 2/28/2011 Time: 9:25 AM  PM   
Duration 4hrs./20min. hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 39,000 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure   
Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" in 3 hours combined with 2" of rainfall from previous days.

**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: Trevor Gallaher, Mark Conley

Report completed by Kick Shwin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Trevor Gallaher Date: 2/28/2011

After Review & Trevor Gallaher Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Kathy Stout Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

MAILED

CITY OF OAK RIDGE

REPORT DATE: 3/2/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 276 Wilberforce Ave.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # Map Page # K-09 Manhole # Force Main:

FLOW DATA

Start Date: 2/28/2011 Time: 3:50 AM  PM  End Date: 2/28/2011 Time: 3:50 AM  PM

Duration ? hours/minutes Est. Flow Rate: ? gpm Estimated Total Flow: 100 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.5 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Excessive rainfall 2.41" of rain in 3 hours combined with 2" of rainfall from previous days.

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 to correct I&I.

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 1 Use (i.e., commercial, residential) <sup>KS</sup>

Other (describe) Sewer had stopped coming in the washing machine drain when it was checked at 3:50 pm. Est. 100gals.

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

Names of Responders: Rick Irwin

Report completed by Rick Irwin Title: Operations & Maint. Manager Date: 3/3/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Rick Irwin Date: 2/28/2011

After Review & Kathleen Title: Operations Manager Date: 3-3-11  
Notification to TDEC

Final Review Kathy Stout Title: Public Works Director Date: 3/3/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/4/11

FAXED

**CITY OF OAK RIDGE**

REPORT DATE: 3/6/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 119 Athens Rd.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 2/28/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # E-11 Map Page # E-22 Manhole # D-1018 Force Main:

**FLOW DATA**

Start Date: 3/6/2011 Time: 1:40 AM  PM  End Date: 3/6/2011 Time: 12:30 AM  PM

Duration 10hrs,50min. hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 195,000 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

**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: David Patterson, David Bray

Report completed by *Nick Clavin* Title: *Operations + Maint. Manager* Date: *3/9/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & *Scott Jackson* Title: *Operations Manager* Date: *3-9-11*  
Notification to TDEC

Final Review *[Signature]* Title: *Public Works Director* Date: *3/10/11*

Final Report Transmitted to TDEC By: *Kathy Stout* Date: *3/10/11*

**FAXED**

LOCATION: 151 Cairo Ln. LOCATION DATA 1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 2/28/2011

POINT OF OCCURANCE

Manhole:  Clean Out:  In-House Backup:  Lift Station: Name: None or None or None
If Manhole; Give Mini-system # E5B Map Page # G-22 Manhole # G22-14 Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 12:50 AM  PM  End Date: 3/6/2011 Time: 12:40 AM  PM 
Duration 11hrs,50min hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 106,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure 
Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

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: David Patterson, David Bray

Report completed by: Rick Elson Title: Operations & Maint. Manager Date: 3/9/11

Reviewed by: Title: Date:

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Notification to TDEC Scott Jackson Title: Operations Manager Date: 3-9-11

Final Review Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout Title: Date: 3/10/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/6/2011

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: 2/28/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E13A Map Page # F-20 Manhole # F-701A Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 1:10 AM  PM  End Date: 3/6/2011 Time: 10:10 AM  PM

Duration 9hrs. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 108,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

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: David Patterson, David Bray

Report completed by Dick Lawson Title: Operations & Maint. Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/10/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/7/2011

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: 2/28/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W18A Map Page # J-11 Manhole # J11-16 Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 4:20 AM  PM  End Date: 3/6/2011 Time: 1:00 AM  PM

Duration 8hrs,40min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 104,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall .Ground still saturated from previous 2.41" of rainfall 2/28/11.

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, David Bray

Report completed by Rick Klavin Title: Operations & Maint Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review Scott Johnson Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/10/11



**CITY OF OAK RIDGE**

REPORT DATE: 3/7/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 695 Melton Lake Dr.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 3/1/2011

**POINT OF OCCURANCE**

Manhole:  Clean Out:  In-House Backup:  Lift Station: Name: Marina or None or None

If Manhole; Give Mini-system # E-20 Map Page # L-24 Manhole # L24-1 Force Main:

**FLOW DATA**

Start Date: 3/6/2011 Time: 12:39 AM  PM  End Date: 3/6/2011 Time: 3:00 AM  PM

Duration 14hrs,21min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 86,100 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011.

**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, David Bray

Report completed by *Rick Lewis* Title: *Operations & Maint. Manager* Date: *3/9/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & *Scott Johnson* Title: *Operations Manager* Date: *3-9-11*  
Notification to TDEC

Final Review *Sam Cook* Title: *Public Works Director* Date: *3/10/11*

Final Report Transmitted to TDEC By: *Kathy Stout* Date: *3/10/11*

**PAXED**

CITY OF OAK RIDGE

REPORT DATE: 3/7/2011

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: 2/28/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-11 Manhole # Old-G11-8, New-D-3 Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 2:00 AM  PM  End Date: 3/6/2011 Time: 1:10 AM  PM

Duration 11hrs, 10min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 134,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

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, David Bray

Report completed by Rick Clewain Title: Operations & Maint. Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Peckham Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/10/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/7/2011

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: 2/28/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-12 Manhole # Old-G12-1 New-D-4 Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 2:10 AM  PM  End Date: 3/6/2011 Time: 1:10 AM  PM

Duration 11hrs. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 132,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

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, David Bray

Report completed by Rick Lewin Title: Operations & Maint Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/10/11

FAXED

CITY OF OAK RIDGE

REPORT DATE: 3/7/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 1403 Oak Ridge Turnpike

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 2/28/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G-12 Manhole # Old-G12-2 New-D-5 Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 2:10 AM  PM  End Date: 3/6/2011 Time: 1:10 AM  PM

Duration 11hrs. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 132,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

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, David Bray

Report completed by Kick Lawen Title: Operations & Maint. Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout **FAXED** Date: 3/10/11

**CITY OF OAK RIDGE**

REPORT DATE: 3/6/2011

**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 535 Oak Ridge Turnpike

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 2/28/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # E13A Map Page # G-20 Manhole # F-702 Force Main:

**FLOW DATA**

Start Date: 3/6/2011 Time: 1:15 AM  PM  End Date: 3/6/2011 Time: 10:30 AM  PM

Duration 9hrs,15min. hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 166,500 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

**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: 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: David Patterson, David Bray

Report completed by Scott Lawson Title: Operations & Maint. Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Pachner Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/10/11

**FAXED** ✓

REPORT DATE: 3/7/2011

**CITY OF OAK RIDGE**  
**SANITARY SEWER OVERFLOW FINAL REPORT**

NPDES PERMIT # TN0024155

**LOCATION DATA**

LOCATION: 117 N. Purdue Ave. 1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 2/28/2011

**POINT OF OCCURANCE**

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

If Manhole; Give Mini-system # W5A Map Page # G-15 Manhole # Old-G15-13 New-DN-1 *Red* Force Main:

**FLOW DATA**

Start Date: 3/6/2011 Time: 12:08 AM  PM  End Date: 3/6/2011 Time: 3:10 AM  PM

Duration 15hrs,2min. hours/minutes Est. Flow Rate: 200 gpm Estimated Total Flow: 180,400 gallons

**CAUSES**

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

**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, David Bray

Report completed by *Rich Elmer* Title: *Operations & Maint. Manager* Date: *3/9/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & *Scott Jackson* Title: *Operations Manager* Date: *3-9-11*  
Notification to TDEC

Final Review *[Signature]* Title: *Public Works Director* Date: *3/10/11*

Final Report Transmitted to TDEC By: *Kathy Stout* Date: *3/10/11*

**TAXED**  
✓

CITY OF OAK RIDGE

REPORT DATE: 3/7/2011

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: 2/28/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W19 Map Page # H-11 Manhole # Old-H11-3A, New-H11-4 Force Main:

FLOW DATA

Start Date: 3/6/2011 Time: 4:00 AM  PM  End Date: 3/6/2011 Time: 12:45 AM  PM

Duration 8hrs,45min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 26,250 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 2.44 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 2.44" of rainfall. Ground still saturated from previous 2.41" of rainfall 2/28/2011

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, David Bray

Report completed by Rick Lauren Title: Operations + Maint. Manager Date: 3/9/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/6/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-9-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/10/11

Final Report Transmitted to TDEC By: Kathy Stout **FAXED** Date: 3/10/11

CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 119 Athens Rd.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E11 Map Page # E-22 Manhole # D-1018 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 9:47 AM  PM  End Date: 3/9/2011 Time: 3:02 AM  PM

Duration 5hrs,15min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 31,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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: Pat Mroczek, Thurston Nix

Report completed by Rick Anuzin Title: Operations & Maint Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 151 Cairo Ln.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E5B Map Page # G-22 Manhole # G22-14 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 1:05 AM  PM  End Date: 3/9/2011 Time: 3:00 AM  PM

Duration 1hr,55min. hours/minutes Est. Flow Rate: 150 gpm Estimated Total Flow: 17,250 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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: Emies 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: Pat Mroczek, Thurston Nix

Report completed by Rick Lewis Title: Operations & Maint Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review By Cond Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 216 S. Illinois Ave.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 3/6/2011

POINT OF OCCURANCE

Manhole  Clean Out  In-House Backup  Lift 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: 3/9/2011 Time: 11:40 AM  PM  End Date: 3/9/2011 Time: 2:40 AM  PM

Duration 3hrs. hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 54,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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, Derrick Goins

Report completed by *Rich Louini* Title: *Operations & Maint. Manager* Date: *3/11/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & *Scott Johnson* Title: *Operations Manager* Date: *3-11-11*  
Notification to TDEC

Final Review *W. Curd* Title: *Public Works Director* Date: *3/11/11*

Final Report Transmitted to TDEC By: *Fathy Stout* Date: *3/11/11*



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

Manhole  Clean Out  In-House Backup  Lift Station Name: Marina or None or None

If Manhole; Give Mini-system # E20 Map Page # L-24 Manhole # L24-1 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 1:00 AM  PM  End Date: 3/9/2011 Time: 5:25 AM  PM

Duration 4hrs,25min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 26,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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, Derrick Goins

Report completed by Rick Clavin Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review By Cond Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G11 Manhole # Old-G11-8 New D-3 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 11:10 AM  PM  End Date: 3/9/2011 Time: 3:05 AM  PM

Duration 3hrs,55min. hours/minutes Est. Flow Rate: 275 gpm Estimated Total Flow: 64,625 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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: Pat Mroznik Thurston Nix

Report completed by Rob Clavin Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review Joey Cude Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Joey Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G12 Manhole # Old-G12-1 New D-4 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 12:45 AM  PM  End Date: 3/9/2011 Time: 3:05 AM  PM

Duration 2hrs,20min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 14,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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: 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: Pat Mrochek, Thurston Nix

Report completed by Rick Elwin Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review Myra Corder Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5 Map Page # G12 Manhole # Old-G12-2 New- D-5 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 12:45 AM  PM  End Date: 3/9/2011 Time: 3:05 AM  PM

Duration 2hrs,20min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 14,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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: Pat Mroczek, Thurston Nix

Report completed by Rick Kravin Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review By Curden Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024165

LOCATION DATA

LOCATION: 470 Oak Ridge Turnpike

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence: 2/28/2011

POINT OF OCCURANCE

Manhole  Clean Out  In-House Backup

Lift Station Name: None or None or None

If Manhole; Give Mini-system # E10

Map Page # F-20

Manhole # Old E814 New F20-25

Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 1:15 AM  PM

End Date: 3/9/2011 Time: 1:50 AM  PM

Duration 35 Min. hours/minutes Est. Flow Rate: 50 gpm Estimated Total Flow: 1750 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71" in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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. Address was incorrect on the 24 hr notification. 470 Oak Ridge Turnpike is the correct address. INITIAL NOTICE HAD 480,

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes  No

Name of surface water: Tributary to 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, Derrick Goins

Report completed by Alex Lewis Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review W. J. Cund Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # E13A Map Page # G-20 Manhole # F-702 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 10:28 AM  PM  End Date: 3/9/2011 Time: 3:07 AM  PM

Duration 4hrs,39min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 27,900 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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: Emies 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: Pat Mroczek, Thurston Nix

Report completed by Rick Elwin Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review By Cindy Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/10/11

FAXED

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CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5A Map Page # G15 Manhole # Old-G15-13, New-DN-1 *Red* Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 11:40 AM  PM  End Date: 3/9/2011 Time: 5:30 AM  PM

Duration 5hrs,50min. hours/minutes Est. Flow Rate: 300 gpm Estimated Total Flow: 105,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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, Derrick Goins

Report completed by *Nick Laurin* Title: *Operations & Maint. Manager* Date: *3/11/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & *Scott Jackson* Title: *Operations Manager* Date: *3-11-11*  
Notification to TDEC

Final Review *W. C. ...* Title: *Public Works Director* Date: *3/11/11*

Final Report Transmitted to TDEC By: *Kathy Stout* **FAILED** Date: *3/11/11*

CITY OF OAK RIDGE

REPORT DATE: 3/10/2011

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: 3/6/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W19 Map Page # H11 Manhole # Old-H11-3A New-H11-4 Force Main:

FLOW DATA

Start Date: 3/9/2011 Time: 11:35 AM  PM  End Date: 3/9/2011 Time: 2:36 AM  PM

Duration 3 hrs,1min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 18,100 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount 1.71 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roofs  Grease  Collapse  Other

Explain causes of overflow: 1.71" of rainfall. Ground still saturated from previous 2.44" of rainfall 3/6/2011

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, Denrick Goins

Report completed by Rick Lewis Title: Operations & Maint. Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/9/2011

After Review & Scott Johnson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout **AXED** Date: 3/11/11

CITY OF OAK RIDGE

REPORT DATE: 3/11/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 695 Melton Lake Dr.

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence: 3/9/2011

POINT OF OCCURANCE

Manhole  Clean Out  In-House Backup  Lift Station Name: Marina or None or None

If Manhole; Give Mini-system # E20 Map Page # L-24 Manhole # L24-1 Force Main:

FLOW DATA

Start Date: 3/10/2011 Time: 8:40 AM  PM  End Date: 3/10/2011 Time: 2:20 AM  PM

Duration 5hrs,40min. hours/minutes Est. Flow Rate: 100 gpm Estimated Total Flow: 34,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount .57 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: .57" of rainfall. Ground still saturated from previous 1.71", 3/9/2011 and 2.44" of rainfall 3/8/2011

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, Derrick Goins

Report completed by Rick Clavin Title: Operations & Maint Manager Date: 3/11/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/11/2011

After Review & Scott Jackson Title: Operations Manager Date: 3-11-11  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/11/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/11/11



CITY OF OAK RIDGE

REPORT DATE: 3/11/2011

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: 3/9/2011

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W5A Map Page # G15 Manhole # Old-G15-13 ~~New-DNS~~ *Del* Force Main:

FLOW DATA

Start Date: 3/10/2011 Time: 7:53 AM  PM  End Date: 3/10/2011 Time: 11:15 AM  PM

Duration 3hrs,22min. hours/minutes Est. Flow Rate: 250 gpm Estimated Total Flow: 50,500 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount .57 in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: .57" of rainfall. Ground still saturated from previous 1.71", 3/9/2011 and 2.44" of rainfall 3/6/2011

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, Derrick Goins

Report completed by *Rick Lewis* Title: *Operations & Maint. Manager* Date: *3/11/11*

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: David Patterson Date: 3/11/2011

After Review & *David Patterson* Title: *Operations Manager* Date: *3-11-11*  
Notification to TDEC

Final Review *[Signature]* Title: *Public Works Director* Date: *3/11/11*

Final Report Transmitted to TDEC By: *Kathy Stout* Title: *[Signature]* Date: *3/11/11*



CITY OF OAK RIDGE

REPORT DATE: 3/18/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: Scarborough Rd.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

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

If Manhole; Give Mini-system # W26 Map Page # R-14 Manhole # Force Main:

FLOW DATA

Start Date: 3/15/2011 Time: 12:30 AM  PM  End Date: 3/15/2011 Time: 6:30 AM  PM

Duration 6 hrs hours/minutes Est. Flow Rate: 250 gpm Estimated Total Flow: 90,000 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: Round break on castiron sewer force main. ( Exact location of occurance, Scarborough Rd. 560' South of Chesapeake Dr.)

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: Repaired the sewer force main.

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes  No  Name of surface water: Tributary leading to Clinch River.

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: Rick Irwin, Ken Glass, Trevor Gallaher, Tony Morris

Report completed by Rick Irwin Title: Operations & Maint. Manager Date: 3/18/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Rick Irwin Date: 3/15/2011

After Review & N/A Title: Operations Manager Date: \_\_\_\_\_  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/18/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/18/11



CITY OF OAK RIDGE

REPORT DATE: 3/21/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 102 E. Newkirk Ln

1<sup>st</sup> Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

Manhole  Clean Out  In-House Backup

Lift Station Name: None or None or None

If Manhole; Give Mini-system # E-2

Map Page # E15

Manhole #

Force Main:

FLOW DATA

Start Date: 3/21/2011 Time: 10:30 AM  PM

End Date: 3/21/2011 Time: 10:32 AM  PM

Duration 2 minutes hours/minutes Est. Flow Rate: 1 gpm Estimated Total Flow: 2 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in] Power Outage  Equipment Failure

Broken Sewer  Blocked line from Roots  Grease  Collapse  Other

Explain causes of overflow: City sewer crew was doing routine sewer cleaning. Water got into the house due to faulty wax ring underneath the toilet.

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: Homeowner will need to get a plumber to make repairs.

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) 1 residential

Other (describe) Water came in around the base of the toilet. Due to faulty wax ring.

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

Names of Responders: Anthony Morris, Mark Maple, Pat Mocheck

Report completed by Luke Laurin Title: Operations & Maint. Manager Date: 3/23/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification By: Tony Morris Date: 3/21/2011

After Review & N/A Title: Operations Manager Date: \_\_\_\_\_  
Notification to TDEC

Final Review [Signature] Title: Public Works Director Date: 3/23/11

Final Report Transmitted to TDEC By: Kathy Stout Date: 3/23/11

**FAXED**

CITY OF OAK RIDGE

REPORT DATE: 3/28/2011

SANITARY SEWER OVERFLOW FINAL REPORT

NPDES PERMIT # TN0024155

LOCATION DATA

LOCATION: 102 E. Genvea Ln.

1st Occurrence at this location? Y  N

If No, Date of Last Occurrence:

POINT OF OCCURANCE

Manhole  Clean Out  In-House Backup

Lift Station Name: None or None or None

If Manhole; Give Mini-system # E6

Map Page # E-18

Manhole # (New) E18-64 (Old) D-511 Force Main:

FLOW DATA

Start Date: 3/28/2011 Time: 6:00 AM  PM

End Date: 3/28/2011 Time: 6:05 AM  PM

Duration 5 min hours/minutes

Est. Flow Rate: 3 gpm

Estimated Total Flow: 15 gallons

CAUSES

(Check all that apply)

Rainfall  [Estimated amount in]

Power Outage

Equipment Failure

Broken Sewer

Blocked line from Roots

Grease

Collapse

Other

Explain causes of overflow: Roots blocking the sewer main.

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, Scott Whalen, Anthony Hooks

Report completed by Rich Clavin Title: Operations & Maint. Manager Date: 4/1/11

Reviewed by \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Initial TDEC Notification

By: Trevor Gallaher

Date: 3-29-11

After Review & Notification to TDEC

Scott Polson

Title: Operations Manager

Date: 4-1-11

Final Review

Scott Clavin

Title: Public Works Director

Date: 4/4/11

Final Report Transmitted to TDEC

By: Katharine J. Stout

Date: 4/4/11

FAXED

LOCATION: 135 Tyson Rd. LOCATION DATA 1st Occurrence at this location? Y [X] N [ ]

If No, Date of Last Occurrence:

POINT OF OCCURANCE

Manhole [ ] Clean Out [ ] In-House Backup [X] Lift Station Name: None or None or None
If Manhole; Give Mini-system # E6 Map Page # F-18 Manhole # Force Main: [ ]

FLOW DATA

Start Date: 3/30/2011 Time: 3:30 AM [ ] PM [X] End Date: 3/30/2011 Time: 3:30 AM [ ] PM [X]
Duration 1 min hours/minutes Est. Flow Rate: 1 gpm Estimated Total Flow: 1 gallons

CAUSES

(Check all that apply)

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

Explain causes of overflow: Water splashed out of toilet due to cleaning of the sewer main .

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: [X] Other:

WHERE DID DISCHARGE GO (Check all that apply)

Did flow run to surface water: Yes [ ] No [X] 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) Water splashed out of toilet due to cleaning of the sewer main.

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

Names of Responders: Brian Simmons, Trevor Gallaher, Scott Whalen

Report completed by Rick Clavin Title: Operations & Maint. Manager Date: 4/1/11

Reviewed by Title: Date:

Initial TDEC Notification By: Trevor Gallaher Date: 3/31/11

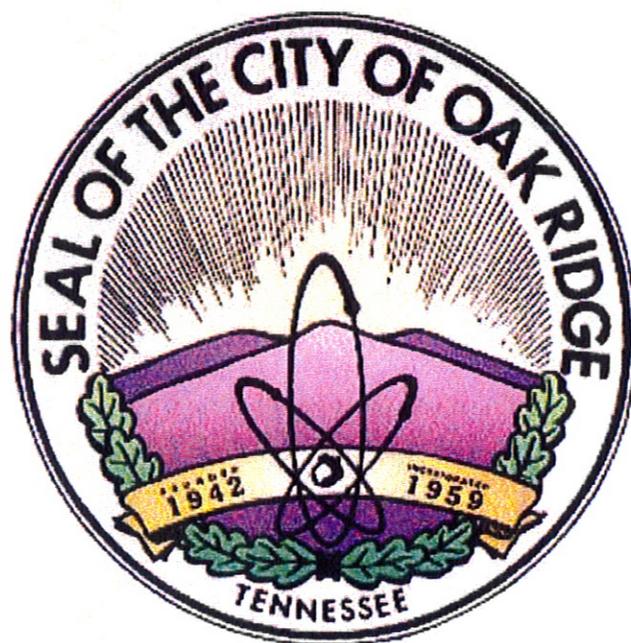
After Review & Notification to TDEC By: [Signature] Title: Operations Manager Date: 4-1-11

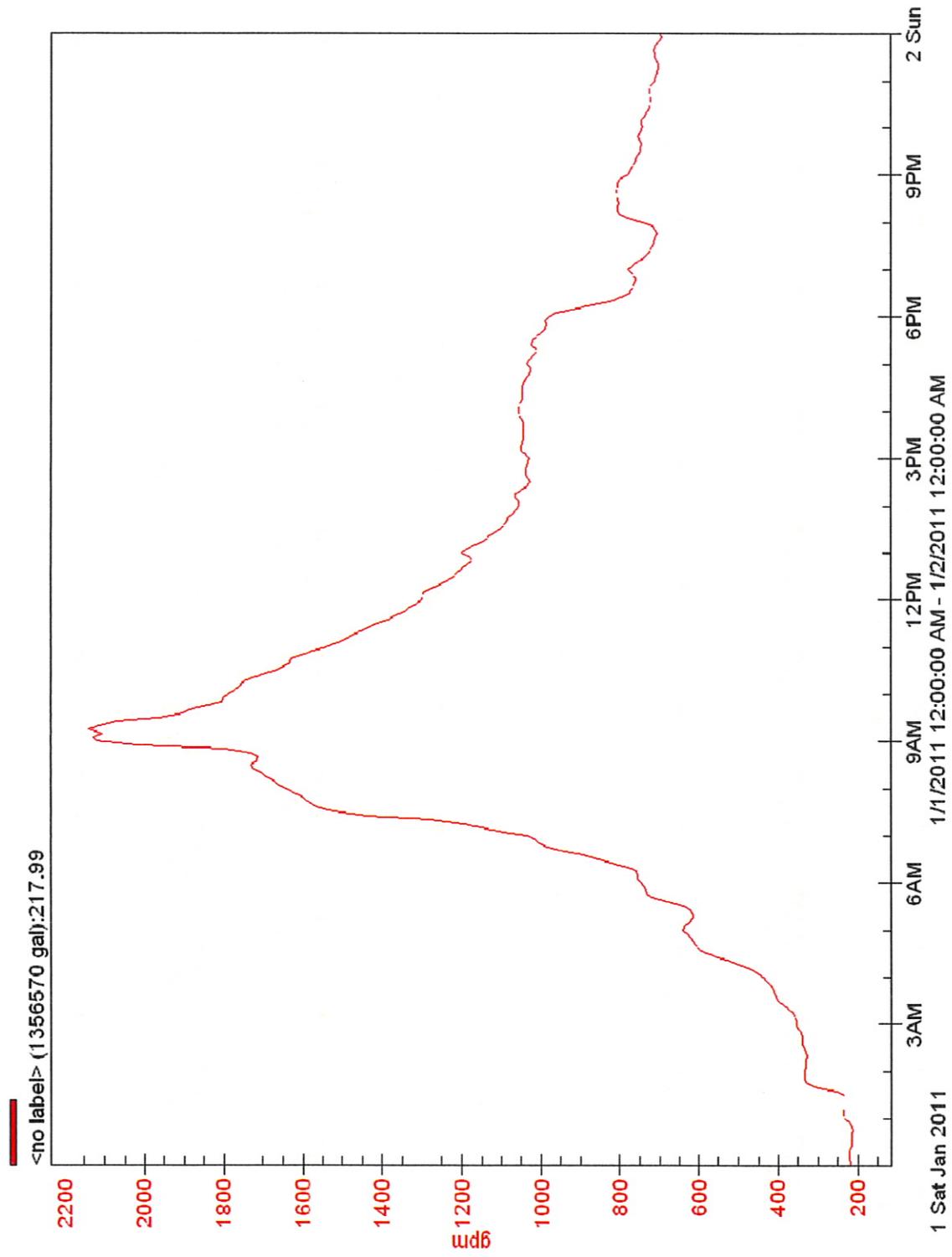
Final Review By: [Signature] Title: Public Works Director Date: 4/4/11

Final Report Transmitted to TDEC By: Katherine J Stout Date: 4/4/11

FAXED

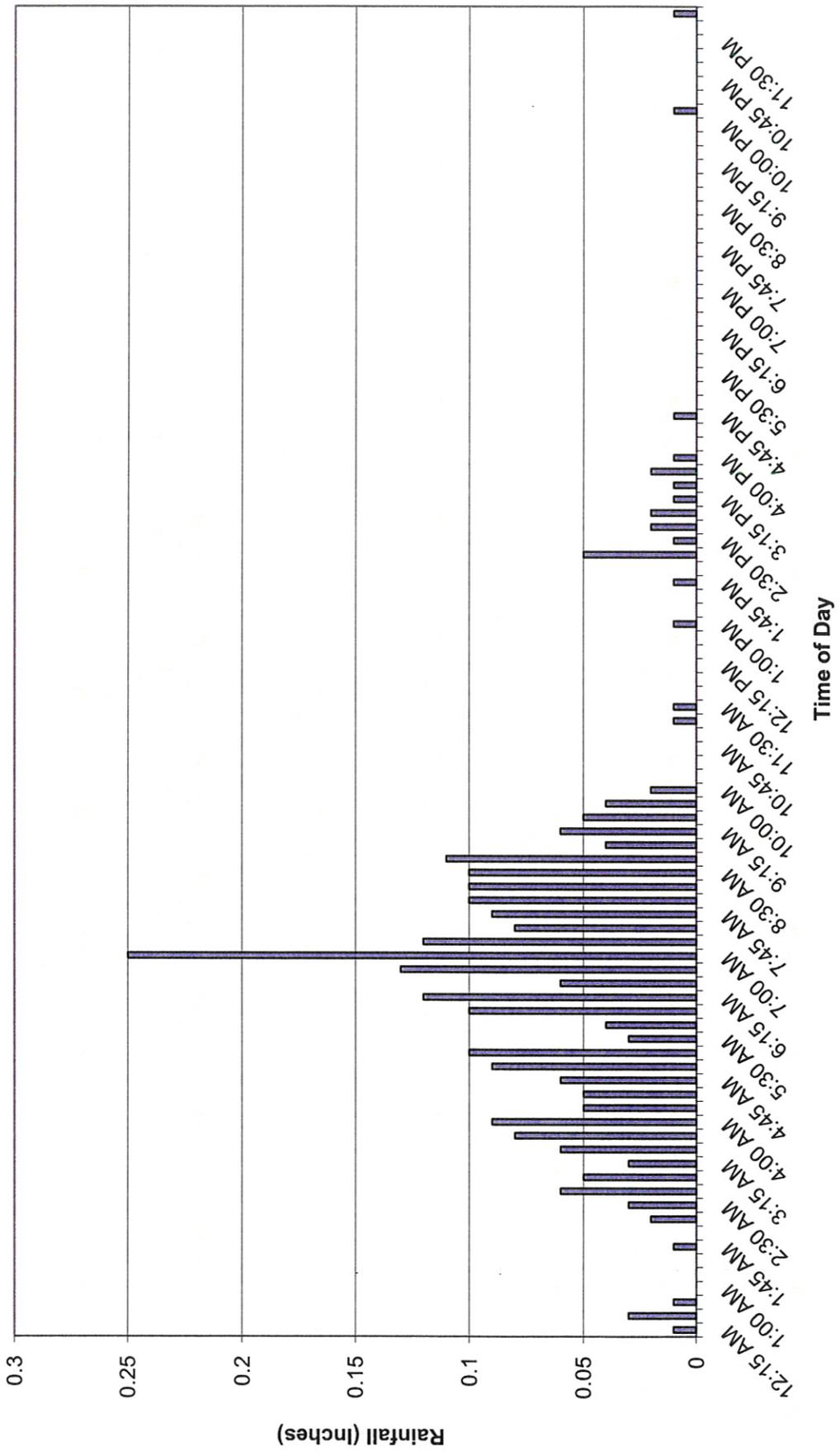
# APPENDIX B: FLOW METER GRAPH





<no label> (1356570 gal):217.99

**Y-12 Rainfall Received, January 1, 2011**  
**Total Rainfall 2.69 Inches**



**SWHISS 9422-18B**

UPDATING

Start Date/Time  
02/24/2011 12:00AM

End Date/Time  
2/25/2011 12:00AM

Flow Rate Units:

Date/Time of Last Reading:

Flow

End Time:

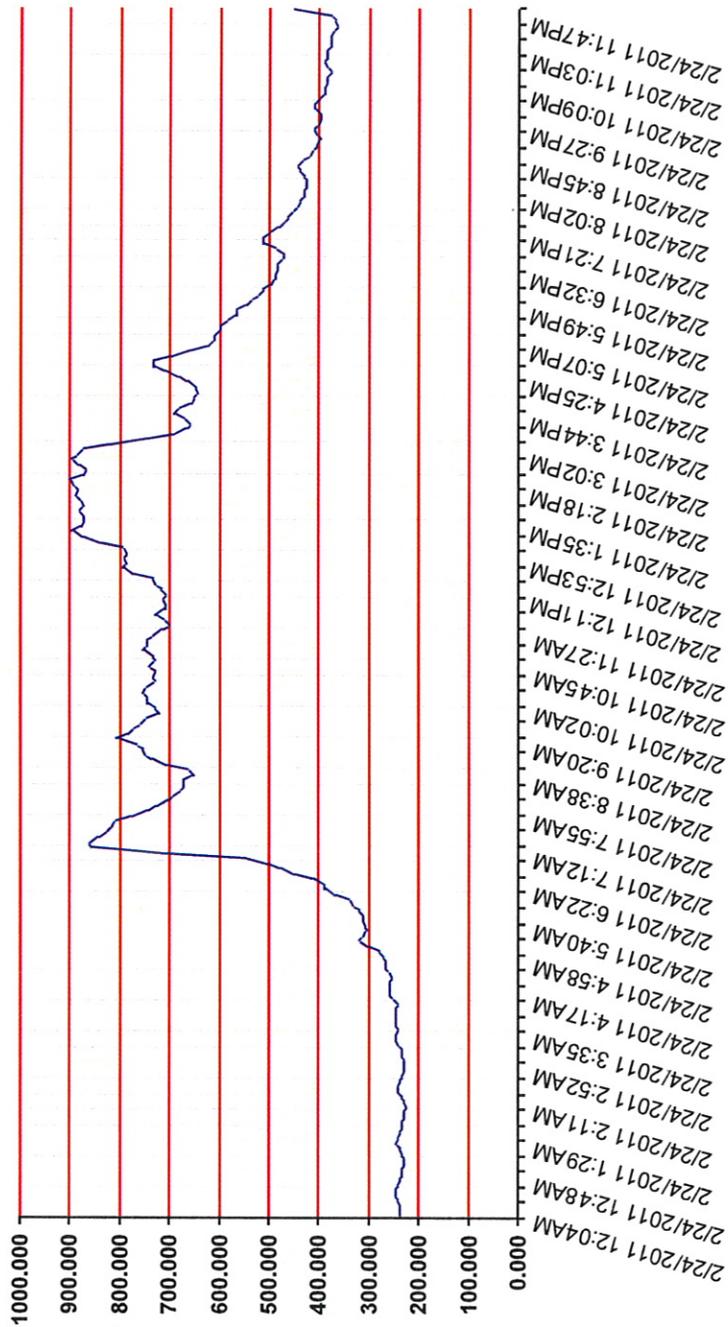
End Date:

Double click for calendar select

Total MG:

Flow Since

Flow  
(2 minute update)



**SWHISS 9422-18B**

UPDATING

Start Date/Time  
02/25/2011 12:00AM

End Date/Time  
2/26/2011 12:00AM

Flow Rate Units:

Date/Time of Last Reading: 2/28/2011 10:20:11 AM

Total MG:

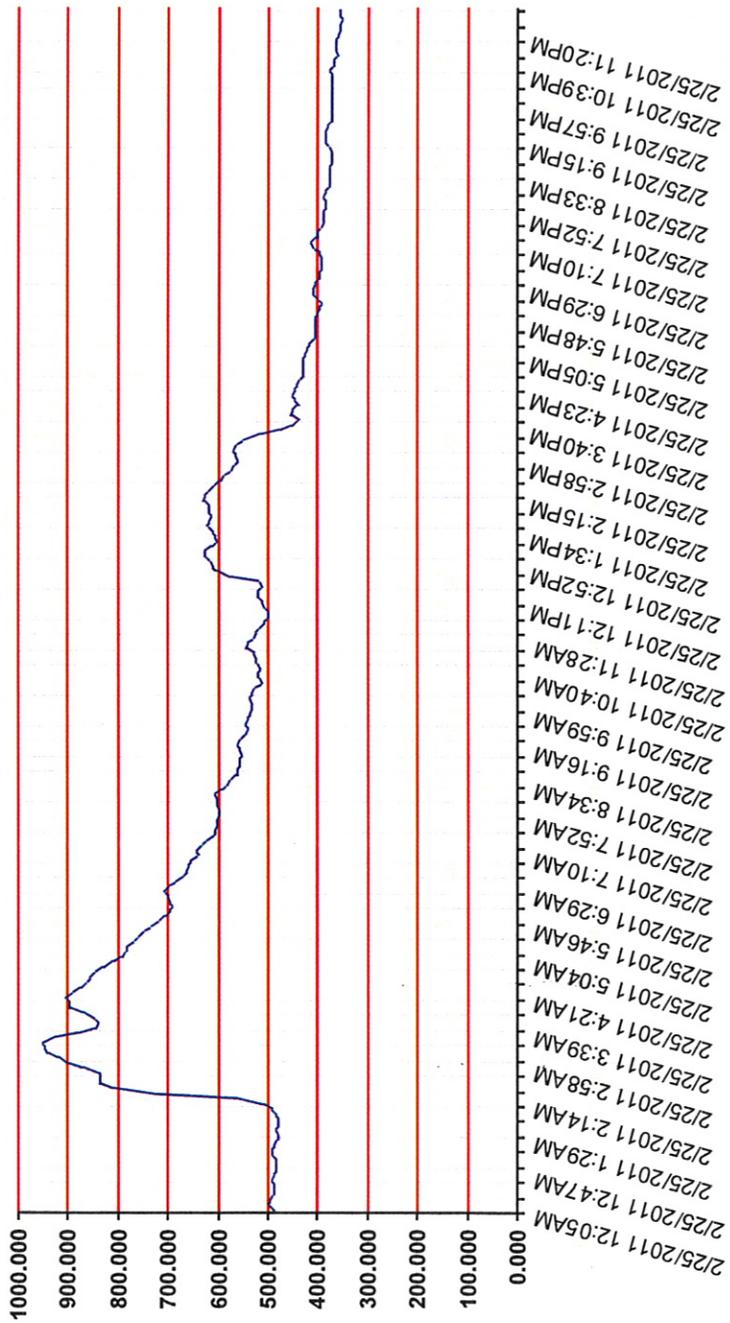
Flow

End Time:

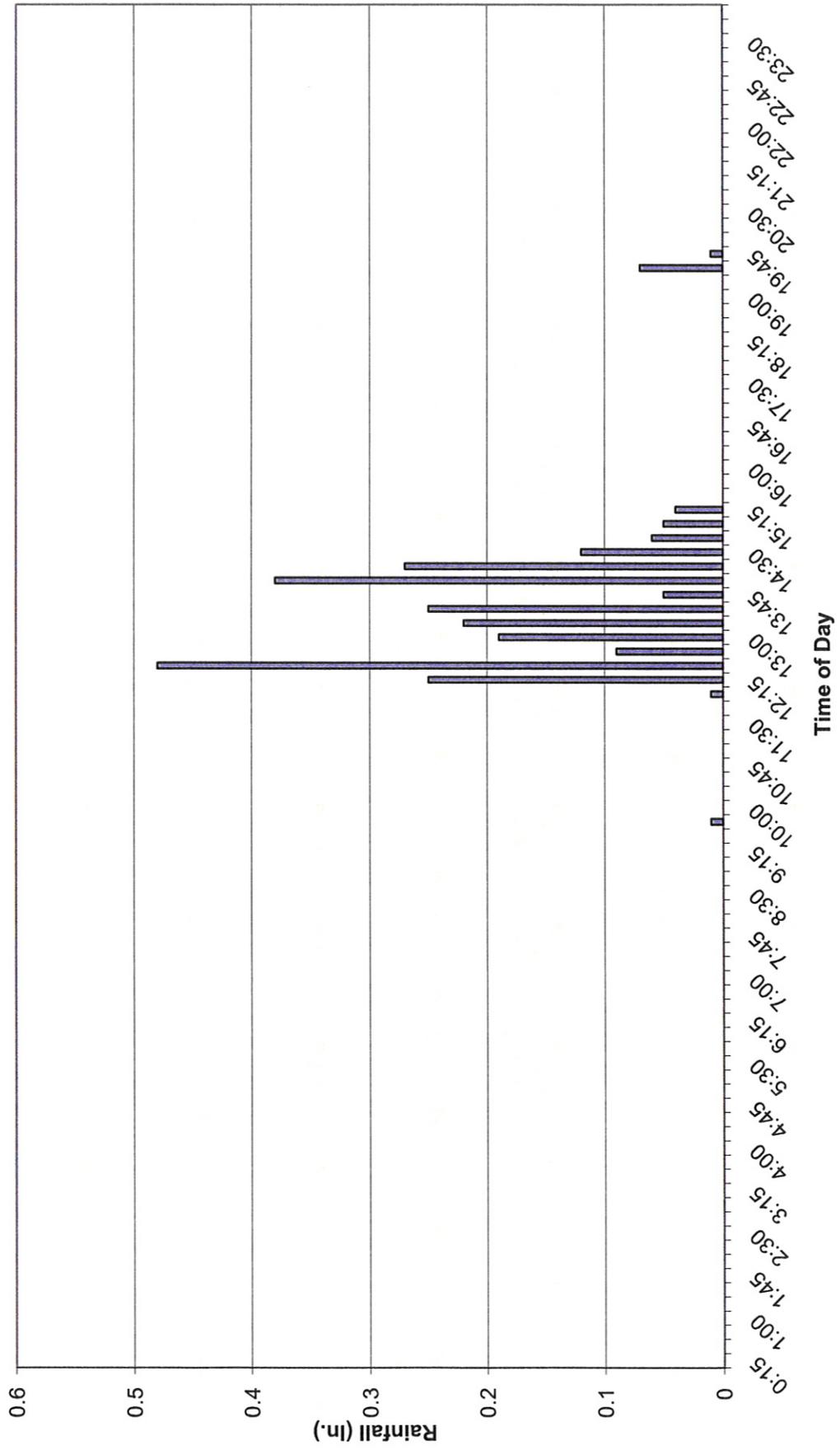
End Date:

Double click for calendar select

Flow  
(2 minute update)



**Y-12 Rainfall Received - February 28, 2011**  
**2.55 Inches Total**



Start Date/Time  
02/28/2011 12:00AM

End Date/Time  
3/01/2011 12:00AM

UPDATING

**SWHISS 9422-18E**

Total MG: 1.53485777273493

Flow Since Midnight

Flow Rate Units:

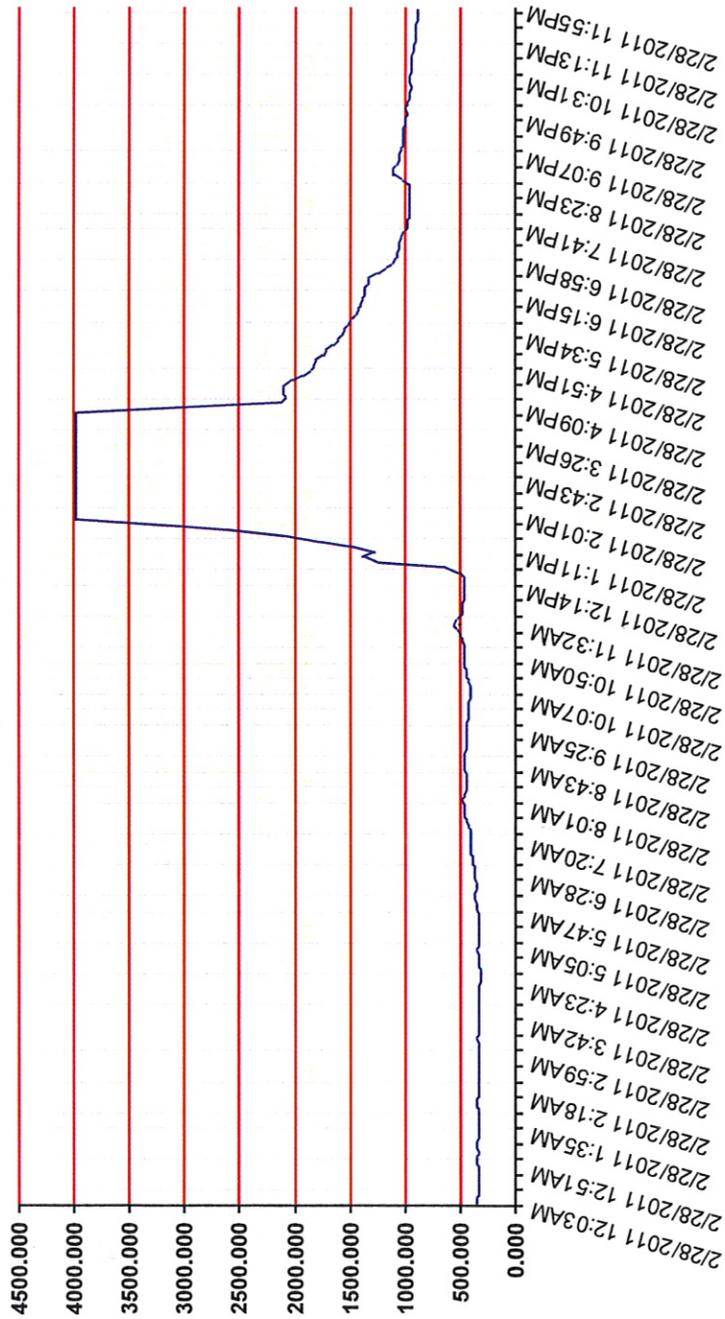
End Time:

Date/Time of Last Reading:

End Date:

Double click for calendar select

Flow  
(2 minute update)



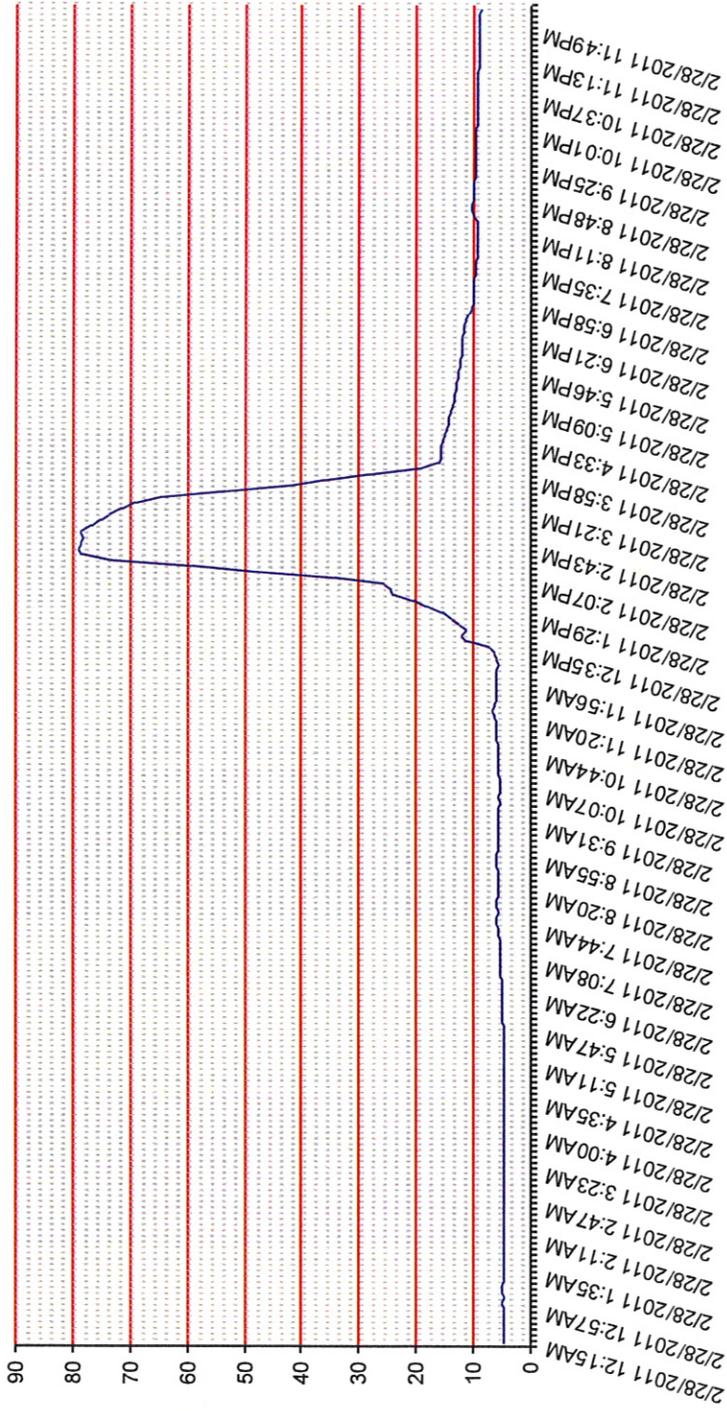
**SWHISS 9422-18B**

Start Date/Time  
2/28/2011 12:13AM

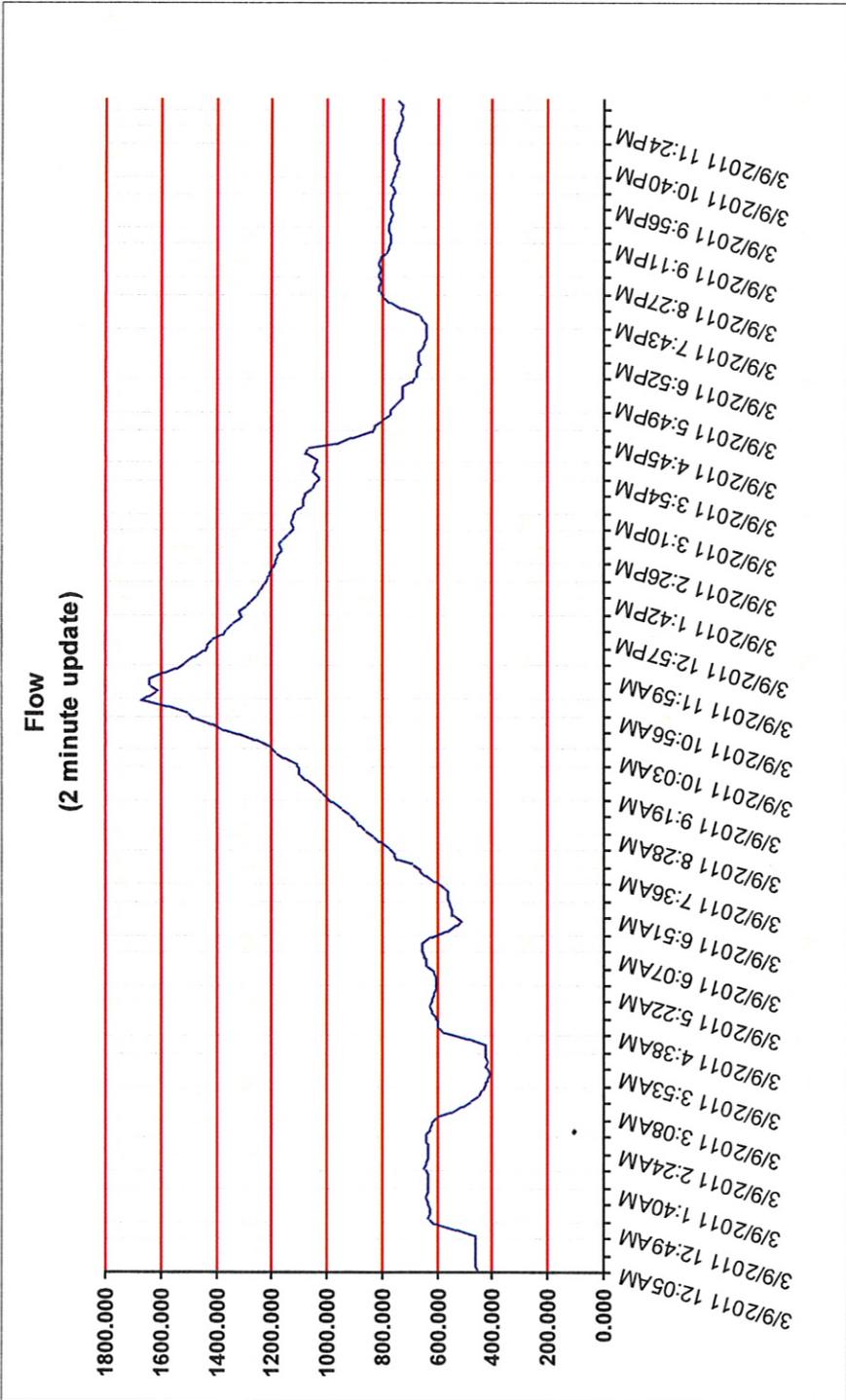
End Date/Time  
3/1/2011 12:13AM

(Updated once every 2 minutes)

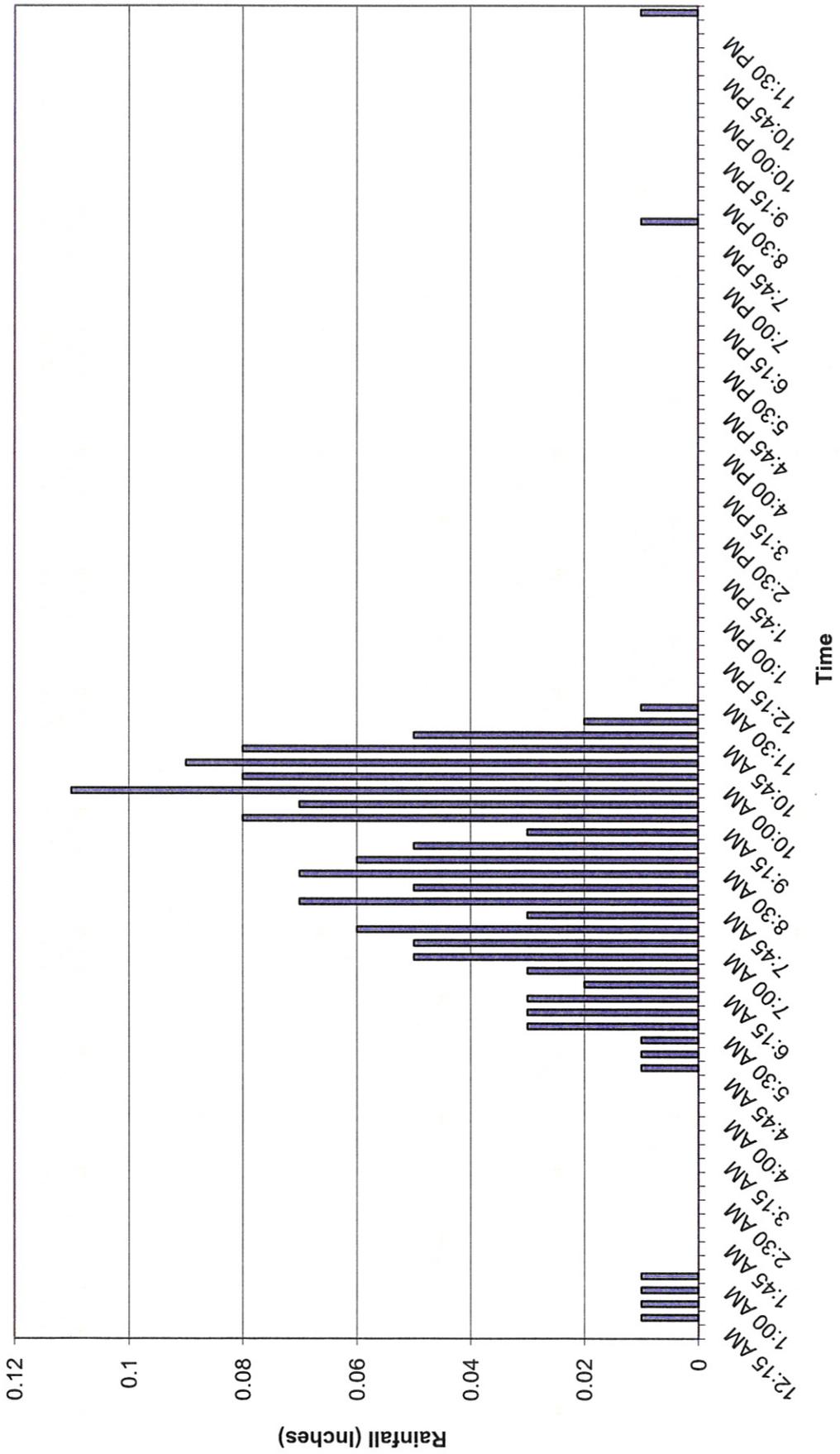
Level (inches)



**SWHISS 9422-18B**  
 UPDATING  
 Start Date/Time: 03/09/2011 12:00AM  
 End Date/Time: 3/10/2011 12:00AM  
 Date/Time of Last Reading: 3/10/2011 5:27:03 AM  
 Flow Rate Units:   
 Flow Since:   
 Flow:   
 Total MG:   
 End Time:   
 End Date:   
 Double click for calendar select



**Y-12 Rainfall Received - March 9, 2011**  
**Total Rainfall - 1.34 Inches**



Start Date/Time  
03/05/2011 12:00AM

End Date/Time  
3/06/2011 12:00AM

**SWHISS 9422-18B**

UPDATING

Total MG: 0.617353945029837

Flow Since  
M A M J J A S O N D

Flow Rate Units: GPM

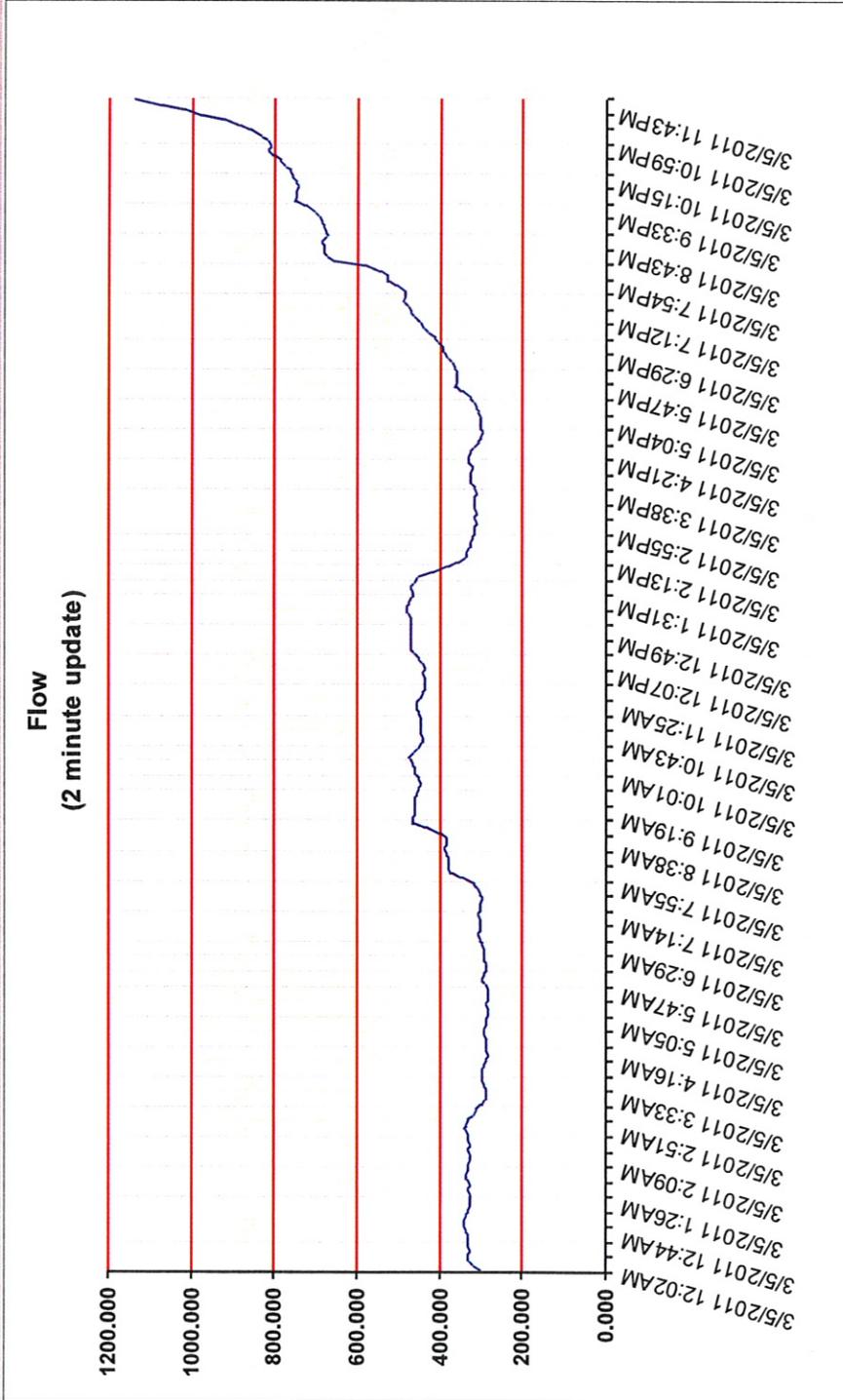
Flow  
T - - - - -

Date/Time of Last Reading: 3/7/2011 6:28:07 AM

End Time: 12:00 AM

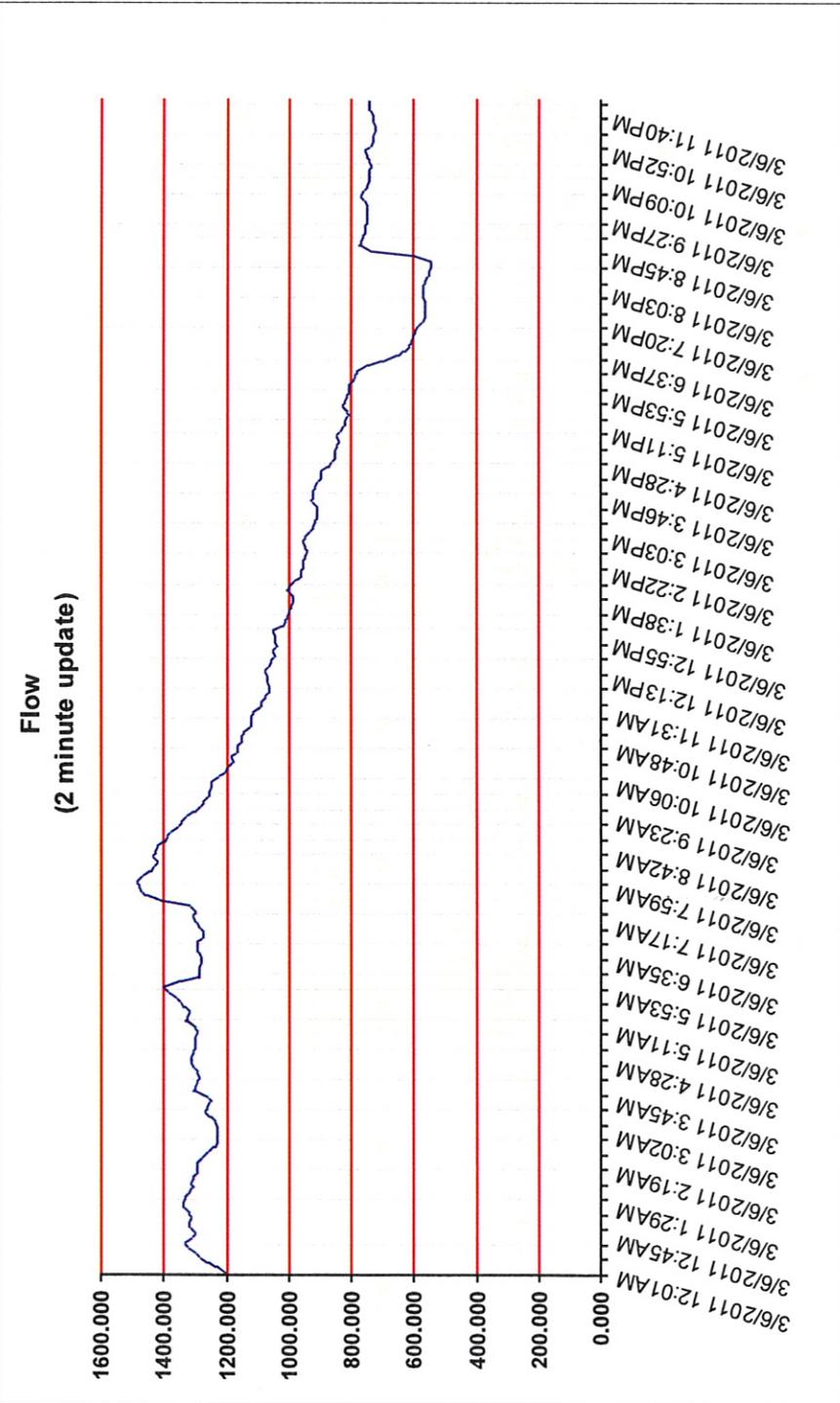
End Date: 3/6/2011

Double click for calendar select

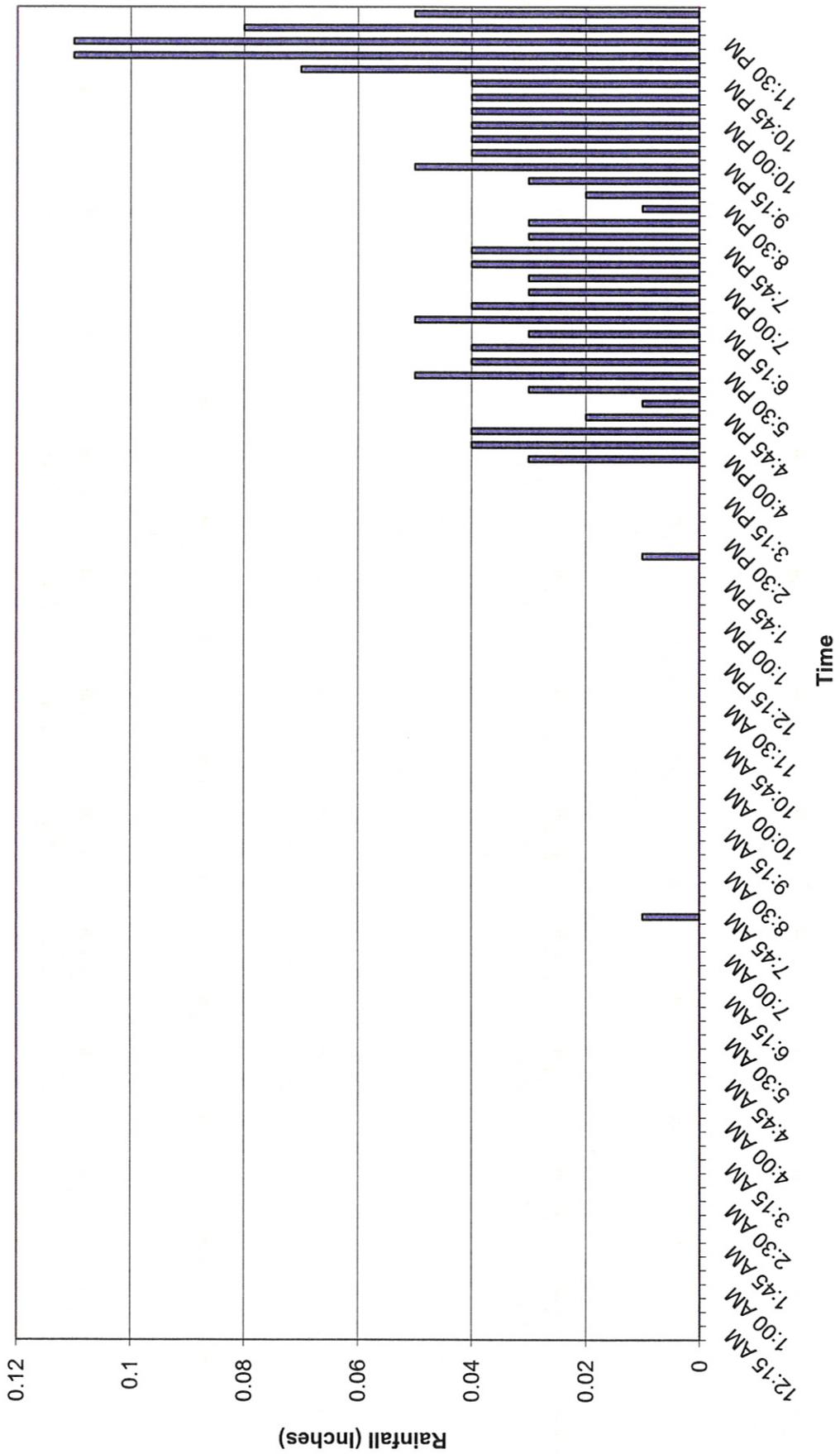


**SWHISS 9422-18B**  
**UPDATING**

**Total MG:**  **Flow Rate Units:**  **Flow Since:**  **Flow:**  **End Date:**  **End Time:**  **Date/Time of Last Reading:**  Double click for calendar select



**Y-12 Rainfall Received - March 5, 2011**  
**Total = 1.41 Inches**



**Y-12 Rainfall Received - March 10, 2011**  
**Total Rainfall = 0.57 Inches**

