

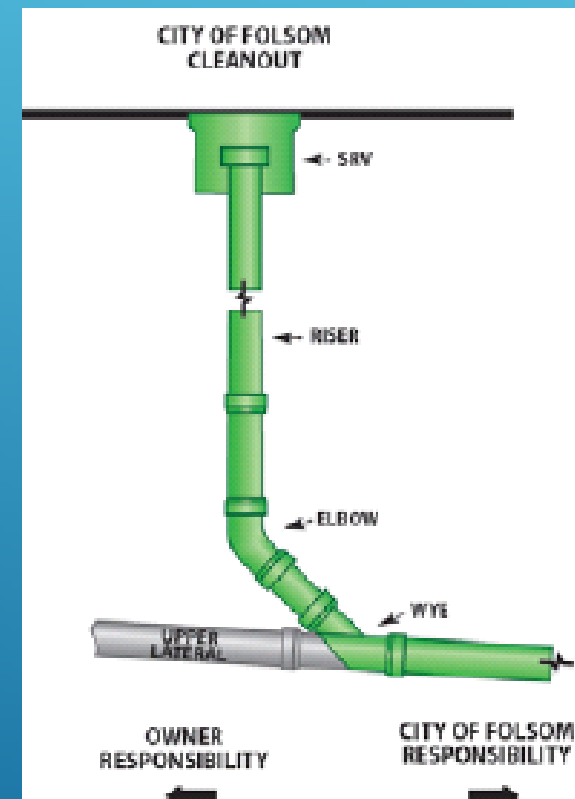
STATE QUESTIONNAIRE – IMPROVEMENTS

SSO Reduction

- Lower Laterals City Owned
- 90% of spills within the lower lateral
- Implemented a L.L. inspection program
 - Assess, Rehabilitate & Repair
 - Educate the Public
 - Reduce SSO's

Lessons Learned:

- Use Questionnaire Before Audit
- Take the Questionnaire Seriously
- Implement new policies, procedures and programs to reduce SSO's



STATE AUDIT – IMPROVEMENTS

FOG

- FSE Inspections
- Flyers Based on Grease Issue
- Updated Legal Authority
- Plan Check Review
- Educate Businesses and Residents

ATTENTION

Neighborhood Sewer Problem Detected Keep Household Drains Fat Free

3 Steps for Proper Disposal of Grease

Can It: Once cooled, pour leftover oils and grease into a sturdy container, like an empty coffee can or glass jar.

Scrape It: Before washing, scrape out fats, oils and grease residuals from pots, pans and dishes

Trash It: Put fatty and greasy food scraps in the garbage, not the drain.

Lessons Learned:

- Use State Audit as Constructive
- Take Action Early -Stay out of trouble.

Commercial FOG

- [Why a FOG Program](#)
- [Proper Disposal of Fats, Oils and Grease Best Management Practices \(BMP's\)](#)
- [Grease Removal Devices](#)
- [Grease Interceptor Maintenance](#)
- [Grease Trap Maintenance](#)
- [How To Recycle Kitchen Grease](#)
- [Selecting a Grease Hauler](#)
- [Requirements For New & Remodeled Food Service Establishments](#)
- [Dumpster & Recycling Containers](#)
- [Equipment Cleaning](#)
- [Grease Interceptor Cleaning Record Form](#)
- [Employee FOG Training Log](#)

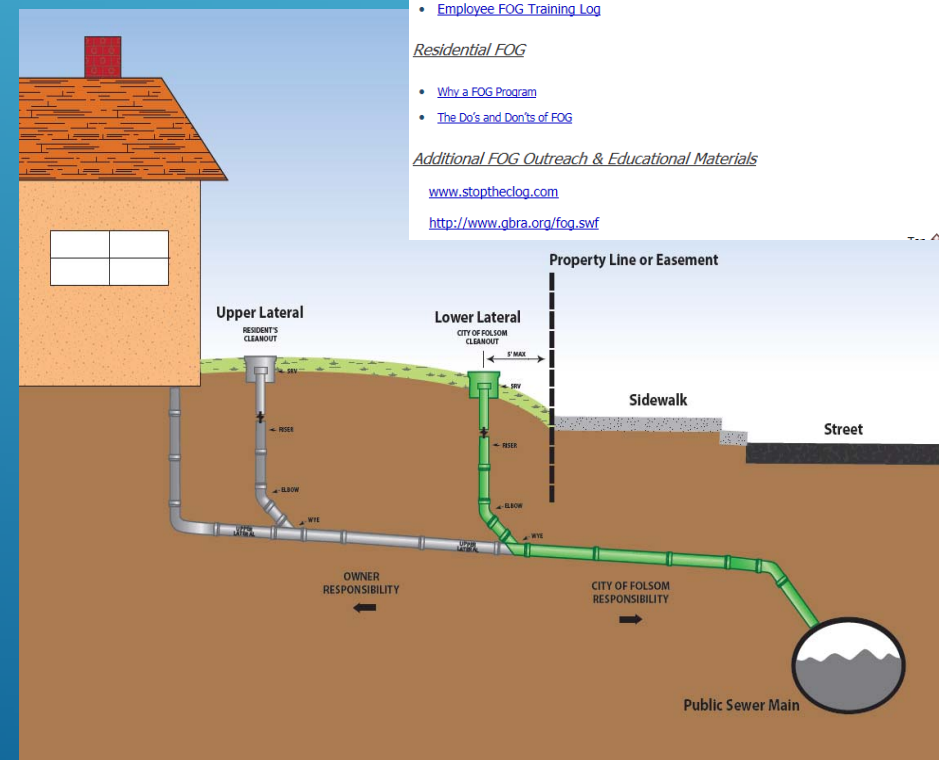
Residential FOG

- [Why a FOG Program](#)
- [The Do's and Don'ts of FOG](#)

Additional FOG Outreach & Educational Materials

www.stoptheclog.com

<http://www.gbra.org/fog.swf>



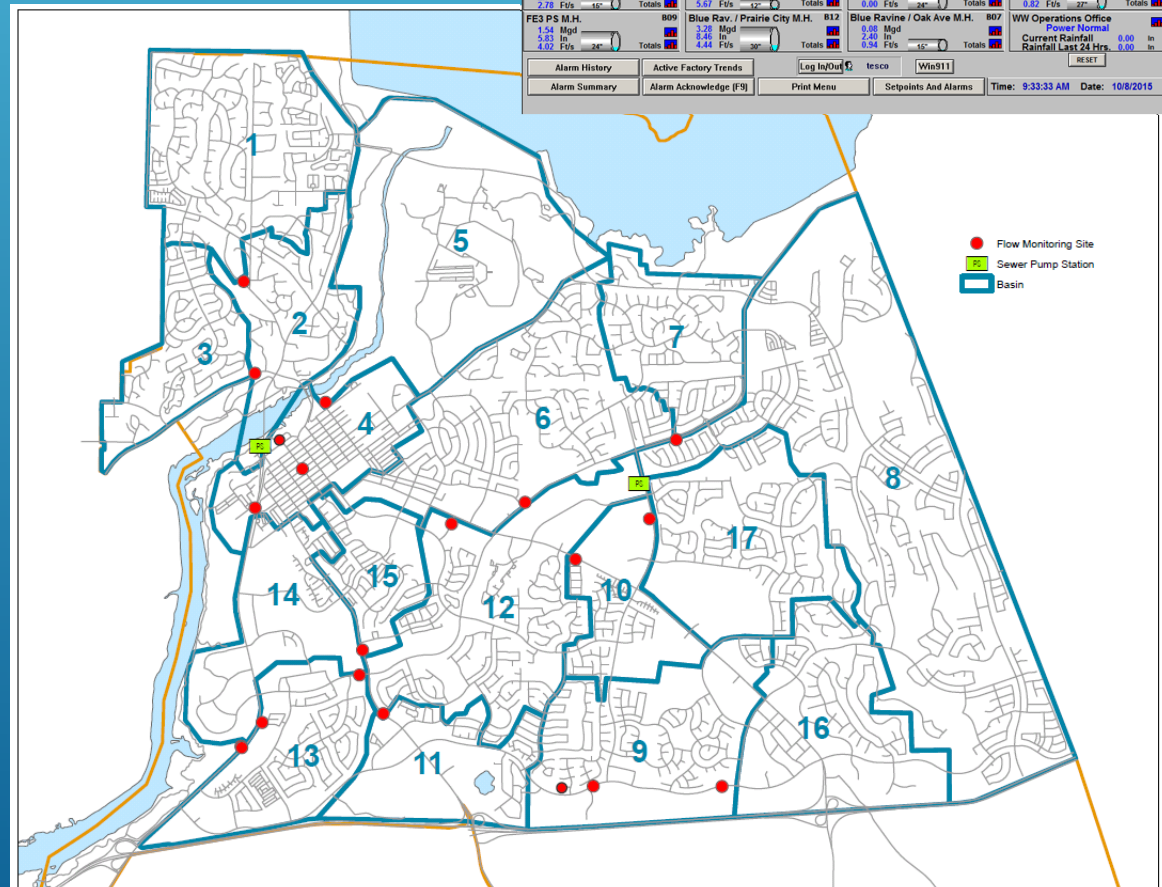
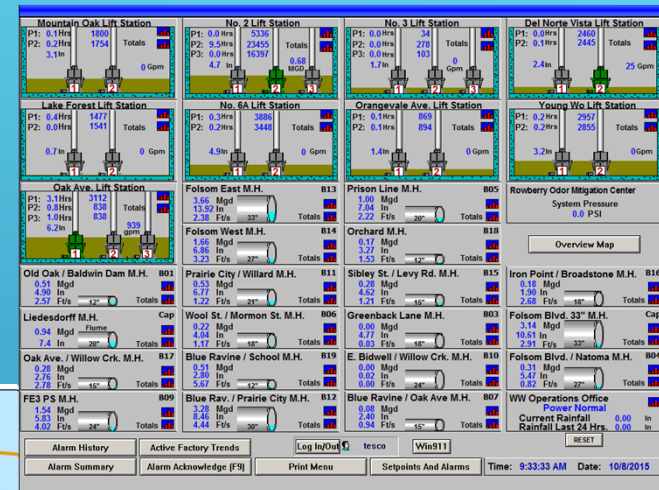
SELF - AUDIT – IMPROVEMENTS

Flow Monitoring & SCADA

- Assessed flow monitoring
- Improved on data quality
- Real time monitoring
- Integrated into SCADA
- Better Data for Capacity Studies
- Identify CIP's & Funding

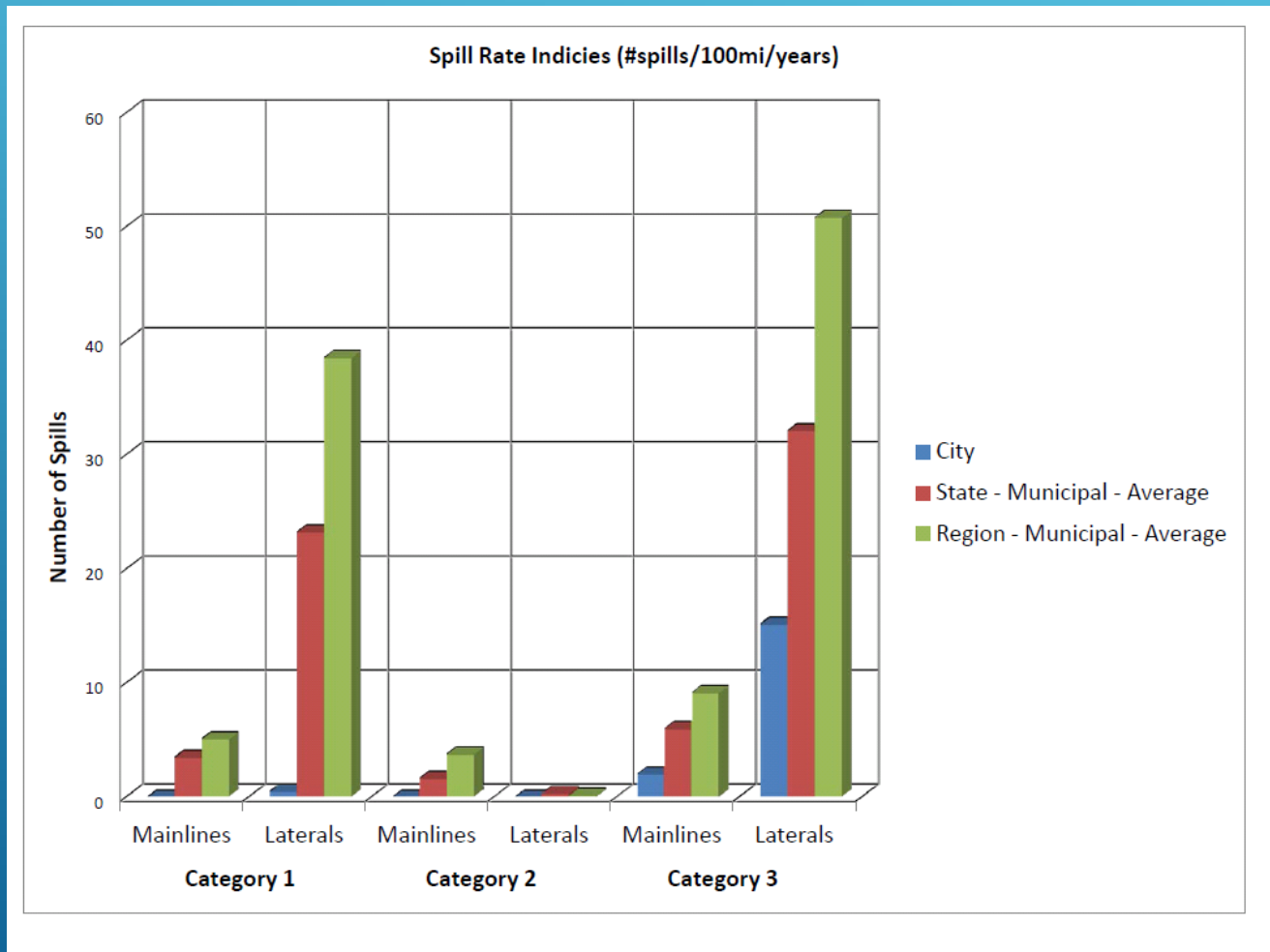
Lessons Learned:

- Self-Audits are invaluable
- Take them seriously
- Resolve areas of deficiencies



RESULTS OF BEING PROACTIVE

SSO's by Comparison



1. Slide 1 - State Questionnaire-Improvements
 - a. SSO Reduction
 - i. Sewer Laterals
 1. Honestly answering the questionnaire gave the City a fresh look at where we were deficient and where we needed to improve. One of the questions in the questionnaire was, "who owns the sewer lateral"? This question prompted us to look further into sewer lateral SSO's and sewer lateral infrastructure. What we found was that 90% of our spills were within the lower lateral. This prompted us to:
 - a. Implement a lower lateral inspection program
 - b. Assess, rehabilitate and repair any deficiencies within the lower lateral within a certain timeframe
 - c. After inspecting the laterals, if we noticed a lot of FOG in the laterals, the laterals were cleaned, however, we also began educating the individual homeowner by talking with them and leaving them with Best Management Practices to reduce FOG within the house.
 - d. It also prompted us to update our sewer ordinance to clearly define who owns the lower lateral and who owns the upper lateral.
 - ii. Legal Authority
 1. Honestly answering the questionnaire also prompted us to update our Sewer Ordinance. This included:
 - a. Establish requirements for Backflow Prevention Devices (13.08.090)
 - b. Establish requirements for Non-Permanent Discharges (13.08.100)
 - c. Establish requirements for Prohibited Activities (13.08.110)
 - d. Update provisions for Prohibited Discharges (13.08.120)
 - e. Establish requirements for Prohibited Discharge Locations (13.08.130)
 - f. Establish requirements for Maintenance Responsibilities (13.08.140)
 - g. Establish requirements for Easement Access (13.08.150)
 - h. Establish requirements for Private Sewer Laterals (13.08.160)
2. Slide 2 - State Audit - Improvements
 - a. By being a part of the unannounced State Audit, it allowed the City to improve upon its FOG inspection program. The improvements included:
 - i. Inspecting all FSE's within a 2 year timeframe
 - ii. Revising our Sewer Ordinance to include the following:

1. Update provisions for Grease Control Device requirements
 2. Update provisions for applicants applying for a conditional waiver to install a Grease Control Device (13.03.100)
 - iii. Revise the Plan Check Review Process, Establish Guidelines and work more closely with the Community Development and Building Department for approval of GCD's.
 - iv. Educate Businesses and Residents
 1. City's website has both residential and non-residential FOG articles
 2. House to house talks and pamphlets with Best Management Practices on how to reduce FOG
3. Slide 3 – Self-Audit
 - a. Performing the self-audit over 2011-2013 allowed us to determine that we needed to update our Flow Monitoring Equipment and SCADA system. The new system which is nearing completion includes:
 - i. New Flow monitoring equipment (at all 18 sites)
 - ii. Relocated 2 meter sites to an area that will better assess our flow data
 - iii. Constructed 1 new meter site for better quality data
 - iv. Replaced all meters at the remaining 15 sites
 - v. Updated our entire SCADA system have real time data and be able to more closely monitor our data and more quickly identify a problem.
 - vi. Once we have good rainfall data we plan on performing a Sewer Capacity Study (either FY 15-16 or FY 16-17).
4. Slide 4 – Results
 - a. The results of being proactive and honest about the compliance with the WDR will help reduces SSO's. Folsom has lower SSO's than the Region and the State for Category 1, 2 and 3 Spills and mainline vs. laterals.