

State Water Resources Control Board/ Regional Water Control Board Audit

August 2016



Agenda

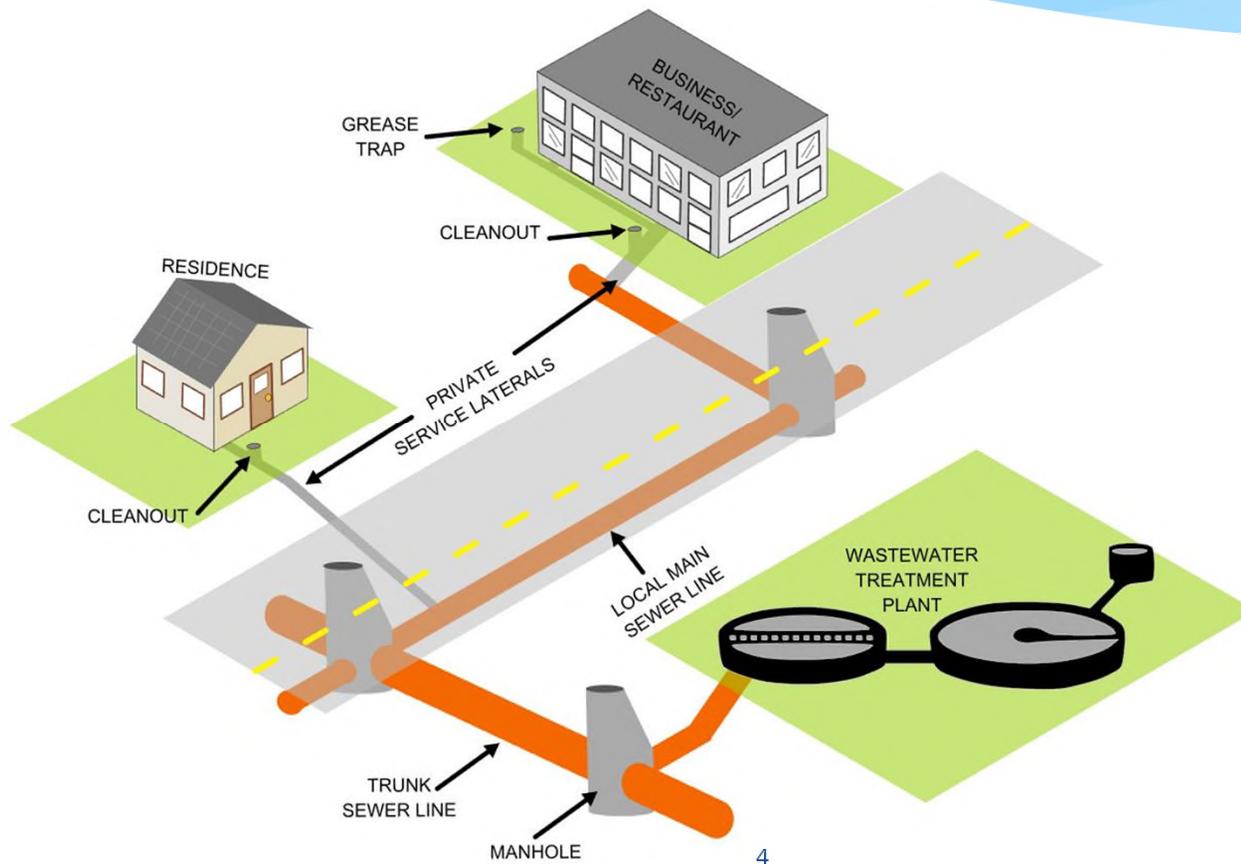
- * What is an SSO, WDR, SSMP and RWQCB?
- * What is the CSMD and what do I get for \$50.50?
- * Fats, Oils, Grease (FOG) Program
- * Beach Closures
- * Your Role & Responsibility
- * Public Education
- * Preparing for an Audit

Understanding the Alphabet Soup

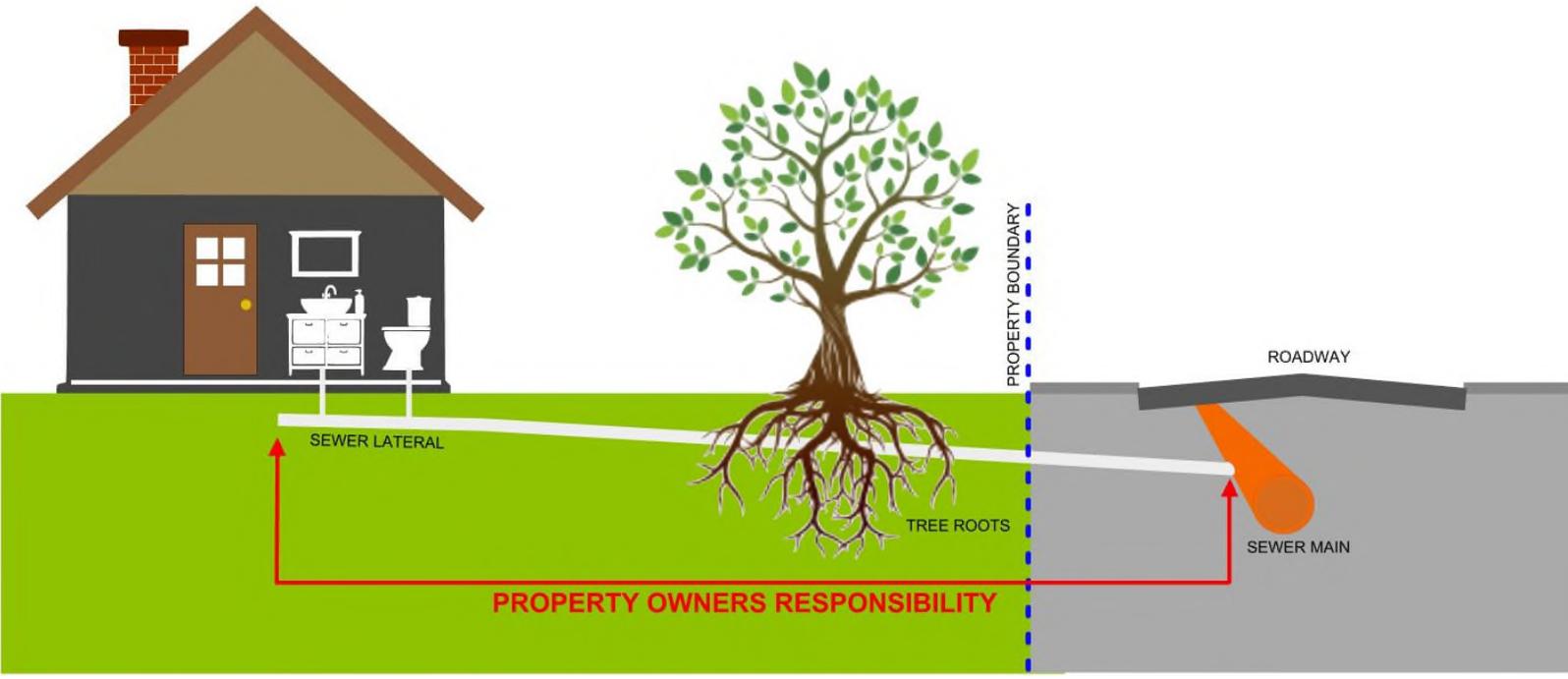
What is an SSO, WDR, SSMP and RWQCB?

Presenter: Nicholas Agbobu
Sewer Maintenance Division
Los Angeles County Public Works

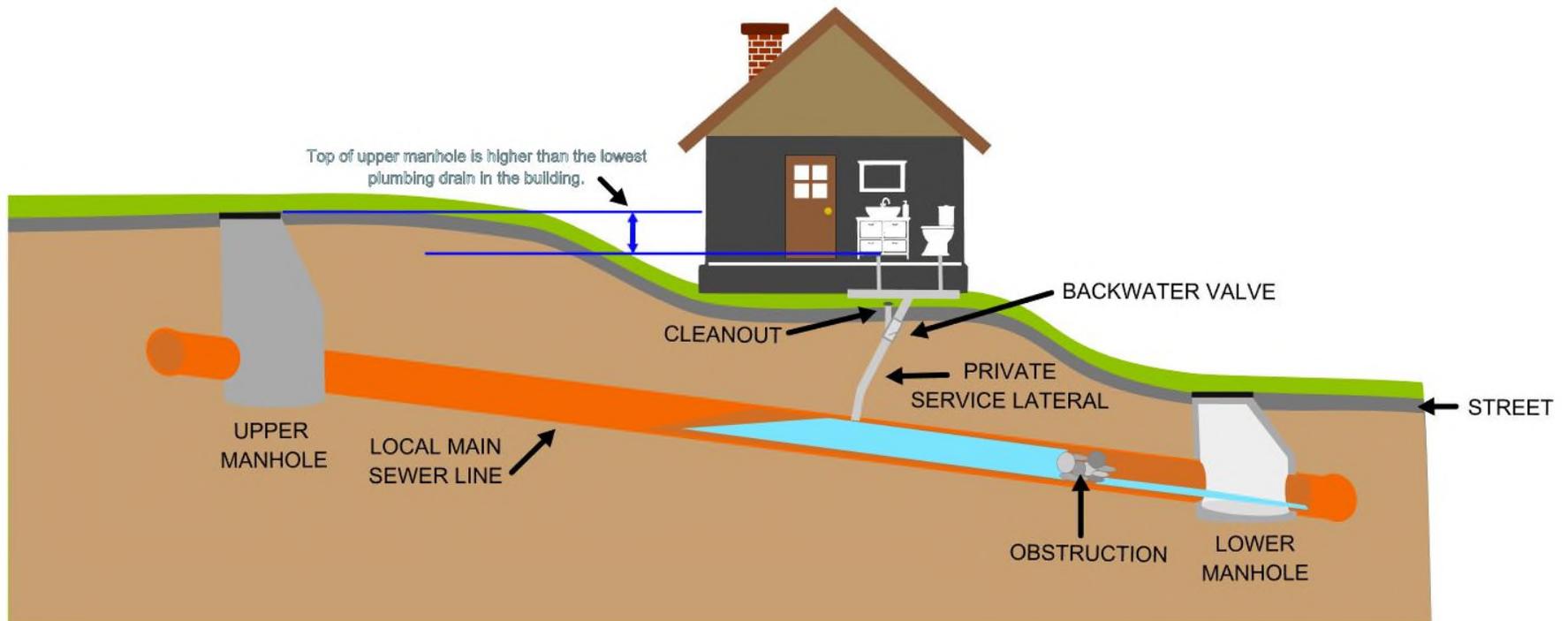
How a Sewer System Works



Sewer Laterals



Blockages / Floodouts / Backwater Valves



Other causes for Sewer System Issues

- * Blockage
 - * Fats, Oils, Grease
 - * Calcium Deposit
 - * Unflushables – Wipes, q-tips, cat litter, towels, etc.
- * Infiltration & Inflow
 - * Flow too much to handle
- * Land Movement
 - * Earth Quakes
 - * Landslides

Other causes for Sewer System Issues (Con't)

- * Damaged Pipes or Manholes
 - * Failure due to age & material
 - * Adjacent construction
 - * Illegal Connections
 - * Acts of Vandalism
- * Sag in the System
- * Pump Station malfunction

State Water Resources Control Board/ Regional Water Control Board Audit

- * May 2, 2006: WDR and MRP Adopted
 - * (Order No. 2006-0003)
- * August 6, 2013: Amended MRP Adopted
 - * (Order No. WQ2013-0058-EXEC)
- * September 9, 2013: Effective date of MRP

Changes in the WDR/MRP

Introduction of an additional SSO Category.

Establishment of Water Monitoring Threshold (Category 1 SSO $\geq 50,000$ gallons).

Uploading of SSMP to City's website and CIWQS.

Commencement of Inspection and Enforcement Actions.

Purpose of the WDR

Eliminate Sanitary Sewer Overflow (SSO)

- * Protect public health and environment
 - * Raw sewage contains disease causing pathogens
 - * Potential Diseases
 - * Eye, Ear, and Throat infections
 - * Hepatitis A
 - * Cholera, Diarrhea, and Stomach Flu
- * Prevent nuisance
 - * Beach Closures
 - * Odors
 - * Eyesore

Key WDR Provisions

Enrollee

- * Eliminate SSOs

In the event of SSO

- * Contain and mitigate impacts
- * Protect waters of U.S.
- * Timely reporting and documentation

Key WDR Provisions

Properly manage, operate, and maintain system

- * Well trained employees and contractors
- * Properly equipped workforce

Allocate adequate funding

- * Sewer rate structure that generates enough funds for O & M and Capital Improvements

Employ proper design and construction

- * Hydraulic & Structural Design
- * Inspections by properly trained inspectors
- * Constructed per plans and specifications

Develop and Implement SSMP

- * Plans to ensure compliance with WDRs

SSMP Elements

Goals

Organization

- * Chain of command
- * Organizational Chart
- * Positions and Phone Numbers

Legal Authority

- * Ordinances, CMC, etc.

SSMP Elements

Operation and Maintenance

- * Proactive approach
- * Adequate funding
- * Well trained workforce
- * Proper equipment
- * Up-to-date map of system
- * Efficient work order tracking

SSMP Elements

Design and Construction

- * Standards

Overflow Emergency Response

- * Timeliness
- * Reporting
- * Documentation

SSMP Elements

Fats, Oils, and Grease (FOG)

- * FOG Ordinance
- * Public Education on proper FOG disposal methods

System Evaluation, Capacity Assurance

- * Plans to ensure sewer capacity availability

Monitoring, Measurement and Program Modification

- * Continuously review and modify SSMP

SSMP, Audit, and Certification

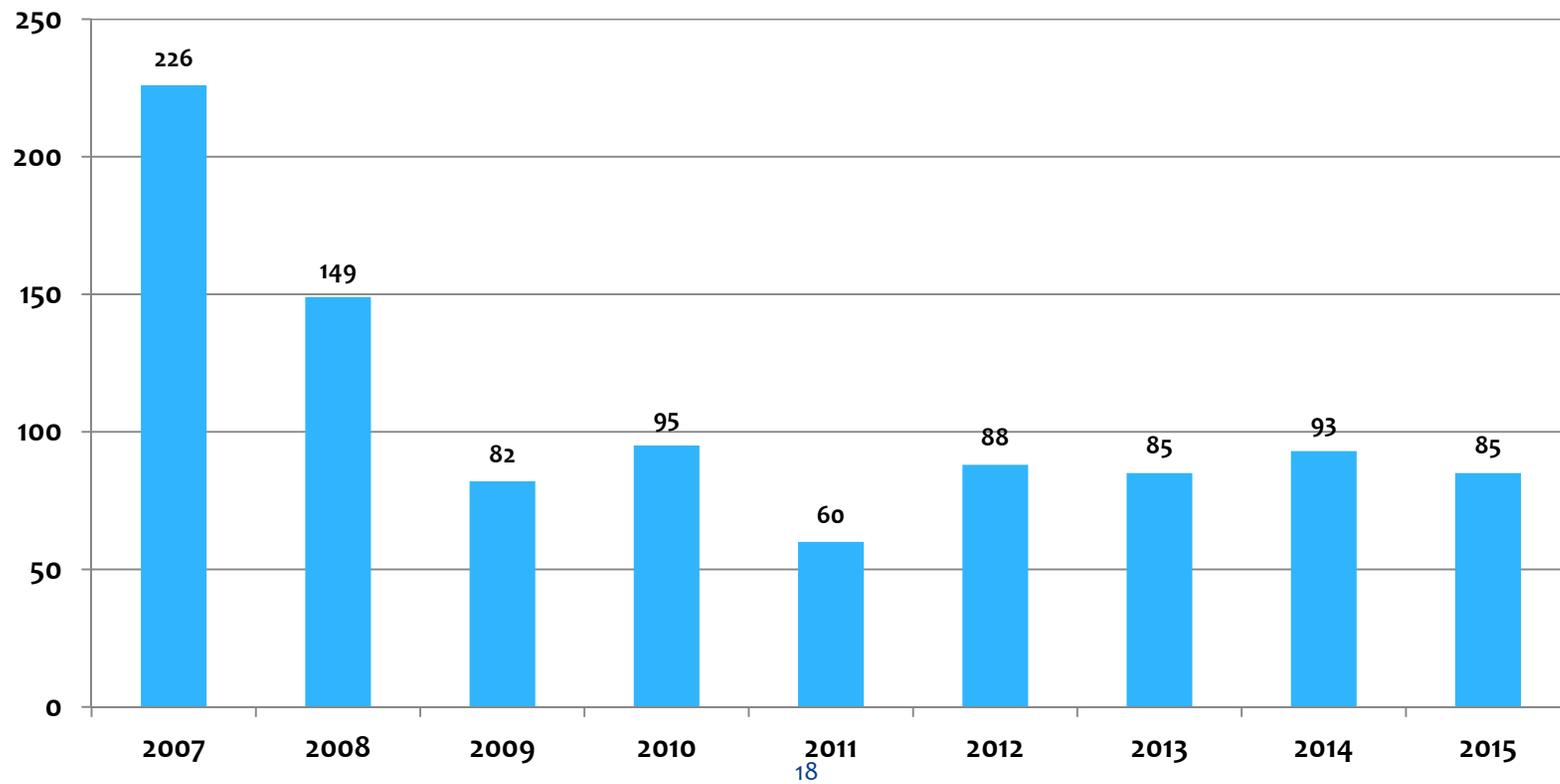
- * SSMP Certification & 5 year recertification
- * Self Audit every 2 years

Communication

- * Public Outreach

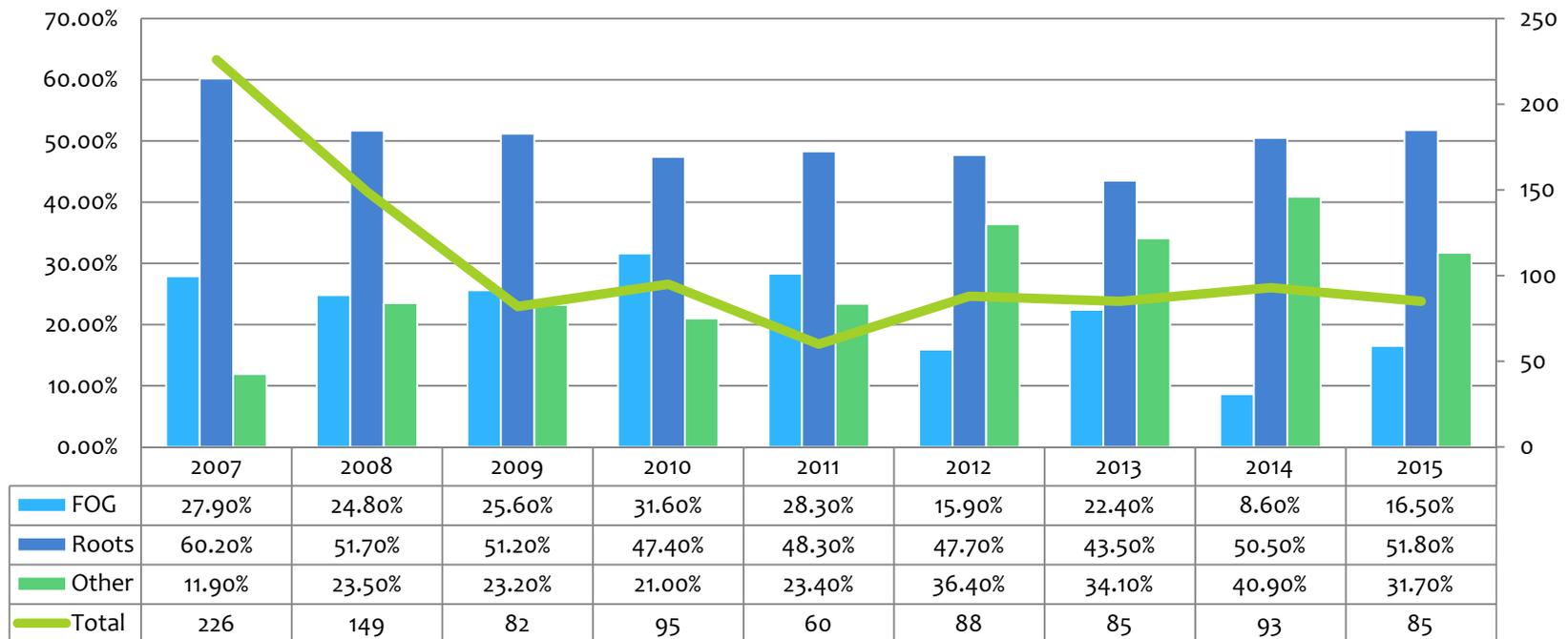
District-Wide SSO

2007-2015



Percentage of Sanitary Sewer Overflows Causes (excludes privates)

Year 2007-2015



What is the CSMD and what do I get for \$50.50?

Presenter: Robert Swartz
Sewer Maintenance Division
Los Angeles County Public Works

Services Provided by the CSMD

Preventive Maintenance

- * Service request regarding sewer odors, noisy manholes, insects, etc.
- * CCTV inspection
- * Regulatory requirements compliance
- * Operation, maintenance, and inspection of pump stations

Services Provided by the CSMD

Preventive Maintenance

- * Sewer manhole inspections
- * Sewer line cleaning
- * Sewer line point repairs
- * Sewer saddle installation

Services Provided by the CSMD

24 Hour Emergency Response and Service Request

- * 800-675-HELP (4357)
- * Sanitary Sewer Overflows
- * Sanitary Sewer Stoppages or Backups
- * Pump Station Malfunction

Claims and Litigation

Services Provided by the CSMD

Accumulative Capital Outlay and Condition Assessment

- * Sewer line and pump station repair/rehabilitation/replacement
- * Closed-Circuit Television Condition Assessment Program
- * GIS Mapping
- * Plan Review for Maintenance Needs
- * Private Contract (PC)/ New Sewer Acceptance Review

Budget

- * CSMD Annual Charge Rate - \$50.50 per sewage unit
- * Annual Budget (Fiscal Year 2016-17) - \$73 Million

Services Provided By Other Agencies

Wastewater Treatment

- * **County Sanitation District of Los Angeles County**
 - * Approximately 99% of sewage generated within the CSMD are collected by the LACSD for treatment and disposal
- * **City of Los Angeles**
 - * Wastewater collected in the Marina & Aneta Zone is treated at the Hyperion Treatment Plant
- * **Las Virgenes Municipal Water District**
 - * Some of the remaining 1% is treated at their facilities

Industrial Waste/FOG Program

- * Environmental Program Division
- * County Sanitation District
- * Cities

When F.O.G isn't just June gloom

Fats, Oils, and Grease

Presenter: Corey Mayne
Environmental Programs Division
Los Angeles County Public Works

Beach Closures

Presenter: Nick Brakband & Becky Valenti
Los Angeles County Public Health Department

Your Role & Responsibility

Presenter: Martin Moreno
Sewer Maintenance Division
Los Angeles County Public Works

Assets

- * Assets are owned by the City
 - * Manholes
 - * Sewer Lines
 - * Pump Stations
- * City is the permittee for WDR
 - * Have at least one or two Legally Responsible Officials (LRO)
 - * Be aware of regulatory compliance deadlines

Capacity

- * City must monitor the capacity of the lines
- * Sewer upsizing
 - * Capacity Studies for New Developments
 - * Zone Change

Design & Construction Standards

- * Plumbing & Sewer Codes to enforce Standards
- * FOG Plan
- * Inspection of new sewer construction projects
- * Plan Checking of proposed sewer lines
 - * Conforms to City's design Standards
 - * Structural
 - * Hydraulic
- * Forward CCTV Post Construction Inspection Videos to CSMD for review
- * Submitting As-Built Sewer Plans and Letter of Acceptance to CSMD for Annexation purposes

Sewer System Management Plan (SSMP) Update & Audits

- * Required update every 5 years
 - * SSMP must be Approved/Adopted by City Council
 - * Certified SSMP must be uploaded to the City's Website
 - * A link to the Certified SSMP must be uploaded to CIWQS
- * Biennial audits required
 - * Filed with the other SSMP Documents

SSO Reporting & Documentation

- * Log/Database of all reported SSO's
- * SSO reported to CSMD
- * Public Education for Residents

First Responder Training

- * Training to occur annually
- * Containment Procedures
- * Reporting and Logging Procedures

Public Education

Presenter: Konya Viventi
City of Lakewood

Preparing for an Audit

Presenter: Martin Moreno
Sewer Maintenance Division
Los Angeles County Public Works

Common Violations

- * SSO service calls
 - * Poor or no documentation
 - * Response time
 - * Failure to meet reporting and certification deadlines

- * FOG plan
- * Deficient O&M program
 - * Inspection and Condition Assessment Program
 - * Concerned about lack of SOPs for the Pump Stations

- * Sewer System Funding and Capital Improvement

- * City not implementing SSMP
 - * Incomplete SSMP
 - * Failure to upload to CIWQS and or City's website.
 - * Failure to conduct 2-yr. SSMP audit
 - * Failure to implement rehabilitation & replacement program

- * Deficient system evaluation and capacity assurance plan (SECAP)

State Water Board/ RWQCB Audit Process

Notice of Intent to inspect

- * Pre-inspection questionnaire
- * CIWQS data on record and more
- * Often on short notice
- * City employee as LRO
- * Notify CSMD immediately
- * Don't ask for time extension

State Water Board/ RWQCB Audit Process

Inspection of records and facilities

- * SSMP
- * Sewer system map
- * Biennial SSMP audit records
- * Sewer use ordinance and FOG Plan
- * SSO complaints documentation
- * Sewer rehabilitation/ replacement plan
- * Capacity assurance plan

State Water Board/ RWQCB Audit Process

Composition of Inspection Team

- * EPA
- * State Water Board
- * RWQCB

State Water Board/ RWQCB Audit Process

Office Visit by Inspectors

- * Meet with City and CSMD
- * Review of SSMP
- * Review of SSMP-Audit
- * Other related materials

State Water Board/ RWQCB Audit Process

Inspection of Facilities

- * Specific spill sites
- * Interview of field personnel
- * Pictures of site visited

State Water Board/ RWQCB Audit Process

Final Inspection Meeting

- * City officials
- * CSMD personnel
- * Inspectors

State Water Board/ RWQCB Audit Process

Notice of Violations

- * Timing unpredictable
- * Meeting with Water Board/RWQCB
- * CSMD draft response
- * City prepares response letter
- * Keep to deadline

State Water Resources Control Board Information

- * **General information:**

CIWQS Help Center
1-866-792-4977
www.waterboards.ca.gov

- * **To register for the first time on CIWQS:**

ciwqs.waterboards.ca.gov/ciwqs/newUser.jsp

- * **For existing CIWQS accounts to register another facility or role:**

ciwqs.waterboards.ca.gov

- * **SSO information page:**

www.swrcb.ca.gov/water_issues/programs/ssso

- * **WDR Permit Application:**

www.waterboards.ca.gov/publications_forms/forms/index.shtml