AGENDA
REGULAR WORKSHOP/MEETING OF THE
BOARD OF DIRECTORS

WEDNESDAY, NOVEMBER 2, 2022
10:00 A.M.

AGENCY HEADQUARTERS
BOARD ROOM
6075 KIMBALL AVENUE, BUILDING A
CHINO, CALIFORNIA 91708

VIEW THE MEETING LIVE ONLINE AT IEUA.ORG

TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 811 003 35#

PURSUANT TO AB361 AND RESOLUTION NO. 2022-10-1 ADOPTED BY THE IEUA BOARD OF
DIRECTORS ON OCTOBER 19, 2022, IEUA BOARD AND COMMITTEE MEETINGS WILL CONTINUE
TO BE CONDUCTED THROUGH TELECONFERENCE IN AN EFFORT TO PROTECT PUBLIC

The public may participate and provide public comment during the meeting by dialing the number
provided above. Comments may also be submitted by email to the Board Secretary/Office Manager
Denise Garzaro at dgarzaro@ieua.org prior to the completion of the Public Comment section of the
meeting. Comments will be distributed to the Board of Directors.

CALL TO ORDER OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF
DIRECTORS MEETING

FLAG SALUTE

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board;
however, no action may be taken on any item not appearing on the agenda unless the action is
otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons
wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to
e-mail the Board Secretary/Office Manager prior to the public comment section or request to address
the Board during the public comments section of the meeting. Comments will be limited to three minutes
per speaker. Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda
require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a
unanimous vote of those members present, that there is a need to take immediate action and that the
need for action came to the attention of the local agency subsequent to the agenda being posted.

*A Municipal Water District
1. WORKSHOP ITEM
   A. SEWER COLLECTION SYSTEM (POWERPOINT)

2. GENERAL MANAGER'S COMMENTS

3. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS

4. DIRECTORS' COMMENTS
   A. CONFERENCE REPORTS

   This is the time and place for the Members of the Board to report on prescheduled Committee/District Representative Assignment meetings, which were held since the last regular Board meeting, and/or any other items of interest.

5. CLOSED SESSION
   A. PURSUANT TO GOVERNMENT CODE SECTION 54956.9(d)(2)(e)1 CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION
      One Case
   B. PURSUANT TO GOVERNMENT CODE SECTIONS 54957 AND 54957.6 - PUBLIC EMPLOYEE PERFORMANCE EVALUATION
      1. Manager of Internal Audit
      2. General Manager
      3. Board Secretary/Office Manager

ADJOURN

Declaration of Posting

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency’s main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency’s website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or dgarzaro@ieua.org, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.
WORKSHOP
ITEM

1A
Sewer Collection System Workshop

Lucia Diaz, Manager of Facilities & Water System Programs
Daniel Dyer, Sewer Collections Supervisor
November 2, 2022
Sewer Overview
Sanitary Sewer Management Plan (SSMP)
Regional Facilities & Systems
Collection System Operators
Coordination Efforts
Technology Influences
Upcoming Challenges
Sewer Types Serving Different Purposes

- **Sanitary Sewers** – Used for conveyance of wastewater to treatment plants

- **Storm Sewers** – Used for conveyance of stormwater and local runoff to receiving waters

- **Combined Sewers** – Used for conveyance of both sanitary and storm sewers to treatment plants during dry weather
Sewer Types Serving Different Purposes

- IEUA service area has sanitary sewers
  - Regional System
    - Residential, commercial, and industrial wastewater
  - Non-Reclaimable Wastewater System
    - Industrial wastewater with high TDS
  - Collection System
    - Pipelines
    - Lift Stations
Statewide Sanitary Sewer System General Order (SSS-WDR)

- Adopted by the SWRCB in 2006
  - Order No. 2006-0003 SSO-WDR
  - Order No. WQ 2013-0058-EXEC amending MRP of SSO-WDR
  - New Draft Order is currently available for review
- It regulates publicly-owned sewer systems statewide
- Sets statewide requirements for the Sanitary Sewer Overflow (“SSO”) Reduction Program
- Prohibits discharges to waters of the US per Clean Water Act
- Requires each system owner to:
  - Develop and implement a Sanitary Sewer Management Plans (“SSMP”)
  - Perform critical system operation and maintenance
  - Publicly report spills from systems
Categories of SSO Notifications

• Category 1 SSO that enter surface water or storm drainpipe <1,000 gallons
  — Cal OES within 2 hours of becoming aware of discharge
  — RWQCB within 2 hours of becoming aware of discharge

• Category 2 SSO that do not enter surface water or storm drainpipe and/or is fully recovered > 1,000 gallons
  — No regulatory notification required

• Category 3 SSO – all other discharges
  — No regulatory notification required

• All notifications are submitted to SWRCB
CIWQS SSO Reporting Information

• Spill Appearance Points, most common
  — Gravity Mainline
  — Force Main
  — Manhole
  — Pump Station

• Spill Causes, most common
  — Debris - Construction; Rags; Wipes / Non-Disposables; Lateral
  — Collection System Maintenance Caused Spill / Damage
  — Construction Diversion Failure
  — Grease Deposition (FOG)
  — Operator Error
  — Pipe Structural Problem – Installation; Controls; Mechanical; Power
  — Root Intrusion
  — Siphon Failure
  — Vandalism
Sanitary Sewer Management Plan (SSMP)

• SSMP is a dynamic written document that details how a specific sewer collection system is designed, operated, maintained, repaired and funded with the goal of preventing Sanitary Sewer Overflows (SSO)

• Essentially the SSMP is an asset management program

• SSMP Elements (11)
  – Goals
  – Organization
  – Legal Authority
  – Overflow Emergency Response Plan
  – Operation and Maintenance Plan
  – FOG Control Program
  – Design and Performance Standards
  – System Capacity Assurance Plan
  – Monitoring, Measurement, and Program Modifications
  – SSMP Program Audits
  – Communication Program
IEUA SSMP Current Status

• Approved by IEUA Board of Directors
• Certified with SWRCB
• Published online on IEUA Website
  — https://www.ieua.org/about-us/ssmp/
• Last SSMP 5-Year Update completed in 2019
• Last Bi-Annual Audit completed in 2021
• New Draft Order is currently available for review
  — Adoption Hearing is December 2022
  — A new SSMP will be completed in 2023
IEUA Historical SSO’s

Historical SSO Averages (10/3/2022)

- **HIST AVG**: 1.92
- **10 YR AVG**: 1.60
- **5 YR AVG**: 1.80
- **2 YR AVG**: 1.50
IEUA Spill Rate Comparison to Industry

Spill Rate Indice (Spills/100 miles/yr)

- **CAT 1: Surface Waters**
  - IEUA: 0.15
  - State Municipal (public) Average: 1.67
  - Regional Municipal Average: 0.53

- **CAT 2: >1,000 gal**
  - IEUA: 0.41
  - State Municipal (public) Average: 0.76
  - Regional Municipal Average: 0.35

- **CAT 3: < 1,000 gal**
  - IEUA: 0.22
  - State Municipal (public) Average: 3.24
  - Regional Municipal Average: 0.74
Recent SSO Events

• Category 2 SSO associated with the Juniper Avenue line for NRWS - July 6, 2022
• Category 2 SSO occurred at El Prado Road RP-5 Primary Sludge line - July 19, 2022
SSO After-Action

- What do we do?
- Repairs
- Inspection of any repairs
- After-Action Reporting
- Post-event discussion with Senior Leadership
Operational Challenges

• Increase in Fats, Oils, and Grease (FOG) & Ragging
Pump & Lift Stations

- Prado Lift Station
- Montclair Lift Station
- Regional Plant No. 2
- San Bernardino Lift Station
- Philly Lift Station
Collection Team
IEUA Sewer Collections Crew
Internal Coordination is Essential to Success

- Engineering
- Sewer Collections
- Source Control
- Environmental Compliance
- External Affairs
Asset Management

- CCTV Inspections
- Engineering Projects
- Coordination with Cities on manhole covers
- Condition Assessment Project
Mutual Aid Partners

- The Agreement
- Quarterly Meetings
- Regional Training
- Emergency Response Support
Mutual Aid Coordination Improves Response, Knowledge, and Relationships

• Sewer Collections Team hosted the first ever Multi-Agency Sanitary Sewer Overflow Drill.
• Total of six Agencies/Cities
• Training consisted of multiple SSO simulations and bypass support.
• Hosted first meeting between member Agencies for the Sewer Collections and Environmental Compliance teams.
Regional Messaging FOG & Rags

**Inland Empire Utilities Agency**

Published by Hootsuite • April 8

FOG (fats, oils, and greases) and wipes clog pipes! Make sure to keep those items and any napkins, tissues, or paper towels in the trash and out of our sewer systems. #noiwipesinthepipes #swipeclogpipes #FOG #sewersonsmart #ieuwater

**Inland Empire Utilities Agency**

Published by Hootsuite • July 14

Our Collections Crew reminds us to be sewersonsmart by keeping FOG (fats, oils, and greases) and "flushable" wipes out of our sewer systems! Instead, we should collect, cool, and dispose of all wipes in the trash can. Toilet paper should be the only item flushed down the drain. #themoreyouknow #NoWipesInThePipes #NoFOGDownTheDrain #ieuwater

**Inland Empire Utilities Agency**

Published by Hootsuite • September 8

Make sure toilet paper is the only item being flushed down your drain. Improper disposal of non-flushable items can lead to huge inefficiencies in sewer and city infrastructure. Plus, our Collections team will thank you! #themoreyouknow #sewersonsmart #NoWipesInThePipes #ieuwater

**Inland Empire Utilities Agency**

Published by Hootsuite • August 16

Meet our activists! Proper disposal of wipes and FOG helps keep our pipelines clean. Avoiding these items helps keep your sewer system in good condition and saves money for the city. #ieuwater
Technology Supports Data Collection and Monitoring

- Geographic Information System (GIS)
  - IEUA Infrastructure Mapping
  - Mutual Aid Partner’s System Mapping
  - Inspection Data
  - Cleaning Data
  - SmartCovers
  - SSO Mapping
Dashboards and Reports

Sewage Spill Overflow

CCTV Inspection
Inspection Dashboard

Brine Sewer System (BSS) Condition Assessment Dashboard

Purpose:
Use this application to compare the cleaning status with the inspection status.

How-to-use:
Use the left map to navigate. The right map will automatically sync up.

Legend:
Blue = Clean
Orange = Inspected
Black = Not clean/inspected
SmartCover Units

• 25 units in the system
• Hydrogen Sulfide Pilot Program
• Upcoming Flow Study
• Averted four potential SSO’s
SSO Mapping

Fairfield Ranch Road SSO Report July 19, 2020

42,000
gallons discharged

41,000
gallons were recovered

1,000
gallons were not recovered (Cat 2 spill)
Challenges: Proposed Advanced Clean Fleet Regulation

- Vehicle Unit Purchases
  - Replacement of CCTV Van before 2024
  - New Vactor Truck purchase before 2024
Challenges: SB 1157 Reduction GPCD

- Possible Effects on Wastewater Collection
  - Low Flow Effects
    - Increased solids concentration
    - Blockages in pipes and lift stations
    - Increased hydrogen sulfide production
    - Increased generation of orders, corrosion

- Responses
  - Increased labor
  - Increased chemical & energy usage
  - Additional equipment needs
  - Increased repair and replacements

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Collections Hard At Work!
Questions