# East Bay Communities Wet Weather Consent Decree

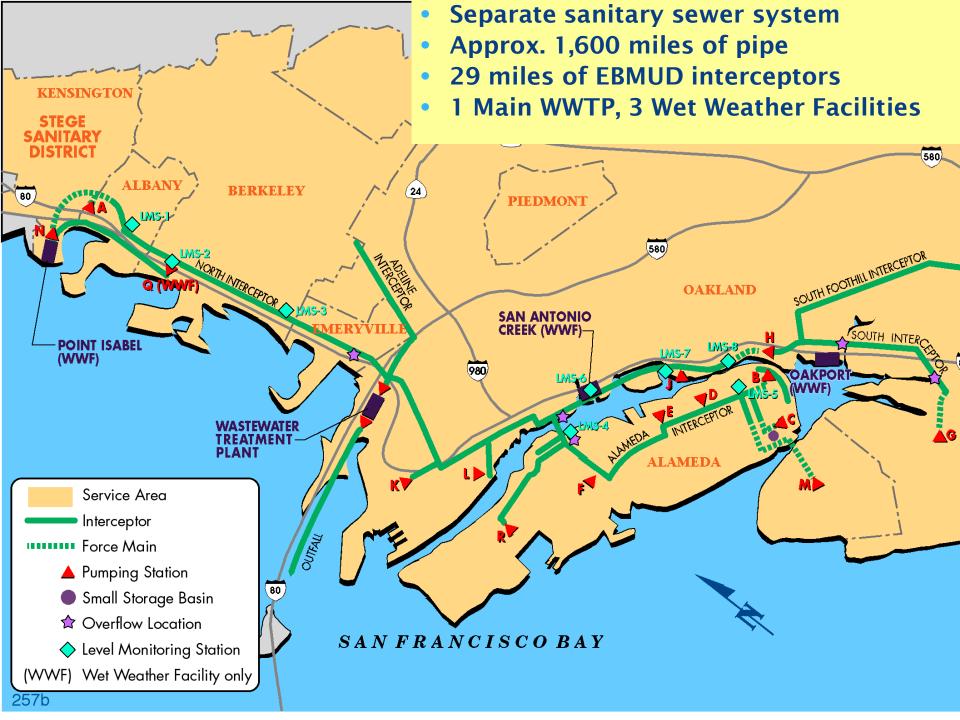
BACWA Collection System Committee October 2, 2014

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#### Overview

- Background
- Consent Decree Overview
  - Settlement Framework
  - EBMUD Requirements
  - Satellite Requirements
  - Plaintiff Expenses & Civil Penalties
  - Penalties
- Positive Aspects and Risks
- Next Steps

- "East Bay"
- EBMUD: Regional Wastewater Treatment Plant, Interceptor System and Wet Weather Facilities (WWFs)
- Satellite Agencies: Cities of Alameda, Albany, Berkeley, Emeryville, Oakland, and Piedmont, and Stege Sanitary District.
- Satellites Agencies own collection system



- 1980s: SSES for each agency
- Developed Compliance Plans
  - Capacity Improvements
  - I/I Reduction
  - Cost-Effective Solution included 3 wet weather treatment facilities (WWFs)
- Some improvements were grant-funded
- EBMUD & Satellites met requirements through extensive capital work

- <u>2007</u>: State Board remanded NPDES permit for WWF discharges
  - Clarified that WWFs must meet secondary and toxic water quality standards or eliminate discharges
- EBMUD NPDES Permit now prohibits discharge from the Wet Weather Facilities
- Satellites' NPDES Permits now prohibit causing or contributing to WWF discharges

- 2009: EBMUD Stipulated Order entered
- 2011: Satellite Stipulated Order entered
- 2014: Regional Consent Decree lodged
  - 3 Plaintiffs, 8 Defendants, 2 Intervenors
  - Effective Date September 22, 2014
  - CD will replace Stipulated Orders

## Preparation for Battle

- EBMUD & Satellites joined to work together prior to CD negotiations
- EBMUD extensive background & literature search on I/I reduction
- Satellites –developed O&M and I/I reduction programs

#### Solution Framework

#### Inflow

Asset Mgmt (Interceptors and Mains)

Asset Mgmt (Manholes)

PSL Programs

Estimated I/I reduction resulting from work required by CD exceeds that required to eliminate WWF discharges

#### Settlement Framework

- 22-year term to eliminate WWF discharges under design storm conditions
- Reduce I/I from sewer mains, MHs, Private Sewer Laterals (PSLs), and inflow sources
  - Satellites invest in public sewers
  - Property owners maintain & replace PSLs
  - EBMUD implements PSL ordinance and inflow identification program
- Adaptive management process with two check-in points

#### Settlement Framework, continued

#### Check-ins at Year 8 and Year 16:

- Demonstrate reduction in modeled WWF discharges under design storm conditions
- Exceeding defined benchmark for each WWF triggers evaluation process and Revised Work Plan
- Potential additional work requirements

#### Discharge Compliance

- Timeline for modeled and actual WWF discharge elimination:
  - San Antonio Creek: 2027
  - Pt. Isabel: 2033
  - Oakport: 2035

### EBMUD Requirements

- Continue PSL ordinance implementation
- Continue Interceptor System inspection and maintenance
- Capacity improvement project at PS Q
- Urban Runoff Diversion Project
  - Mitigation for continued discharge on behalf of all defendants
- Regional Technical Support Program (RTSP)
  - \*\$2M/yr, replaces SO-required PSL Incentives
- Annual monitoring/modeling/reporting

#### Regional Technical Support Program

- EBMUD effort to identify sources of inflow and significant infiltration
  - Focused data analysis
  - Flow monitoring, CCTV, smoke testing, visual inspection, and other field investigation
- Satellites facilitate elimination of identified inflow sources in public and private systems
- Timeline to eliminate is dependent on designated priority

### Satellite Requirements

- PSL ordinance implementation
- Sewer main and manhole rehabilitation
- Inflow and rapid infiltration source reduction
- CCTV Inspection
- Cleaning
- FOG control
- Chemical root control
- Capacity monitoring (Stege and Oakland only)

# Alameda Specific Requirements

- Alameda to join Regional PSL Program
- Rehab 2.6 miles (2% of system) per year
- Rehab lower laterals with main
- Regional Technical Support response
- Respond to Acute Defects
- Clean system on 5 year cycle (10 year for grid)
- Hot spot cleaning
- Complete system by 2019 and then return frequencies set on condition - not to exceed 20 yr)
- Pump Station Renovation Plan

## Litigation Expenses

Intervenors \$ 210,000

State Water Board \$ 100,000

• Total Cost \$ 310,000

Litigation expenses shared by Defendants

#### Civil Penalties

- East Bay Municipal Utility District \$ 201,600
- City of Alameda
- City of Albany
- City of Berkeley
- City of Emeryville
- City of Oakland
- City of Piedmont
- Stege Sanitary District

- \$ 111,150
- \$ 42,038
- \$ 267,000
- \$ 1,870
- \$ 850,000
- \$ 41,038
- \$ 48,860

#### Positive Aspects of the CD

- \* Addresses all 3 sources of I/I (by those responsible for assets)
- \* Regulatory certainty and enforcement protection
- \* Adaptive management approach over an appropriate, very long-term time scale

### Positive Aspects of the CD

- Asset Management based solution
  - On-going
  - Long-term
  - Sustainable
- What most the East Bay satellites were already doing, but now a commitment

#### Risks Associated with CD

- Stipulated Penalties
  - Failure to complete deliverables/work
  - WWF Discharge after deadlines
- Rate of PSL turnover
- Ability to identify sources of inflow and rapid infiltration through the RTSP and eliminate them
- Effectiveness of I/I reduction work (public and private).
- Midcourse Check-ins
- Binding arbitration for disputes between defendants
- EPA determination of ultimate revised work requirements with limited opportunity for EBMUD/Satellites to appeal/challenge (Construction of storage?)

#### Next Steps

- Work with RWQCB on NPDES permit renewals
  - Adoption scheduled for November 12th
- EBMUD to develop initial CD deliverables:
  - RTSP Plan
  - Flow Model Calibration Plan
  - Urban Runoff Diversion Project Plan
  - PS Q Project Plan
  - PSL Public Outreach Plan
- Develop Regional Standards

#### Additional Information

- \* www.justice.gov/enrd
  - Click on "Proposed Consent Decrees"
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