Oakland Public Works Informational Sanitary Sewer Program Report

December 3, 2019

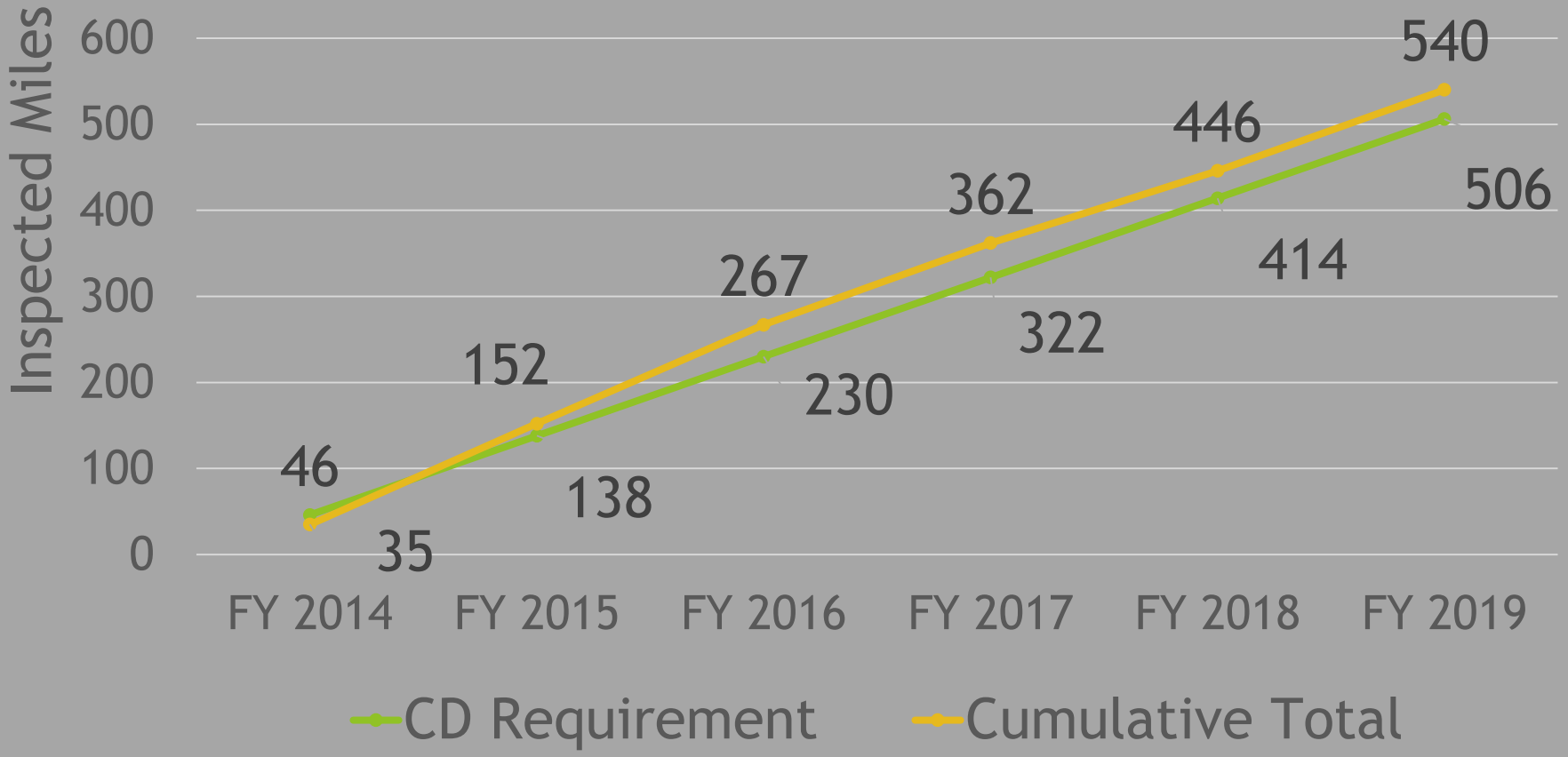
Presenter Jimmy Mach

Overview

- Annual Report FY 2019
  - Work Related to the Reduction of Sanitary Sewer Overflows (SSOs)
  - Work Related to the Reduction of Infiltration & Inflow (I/I)
- Regional Compliance Status of Consent Decree

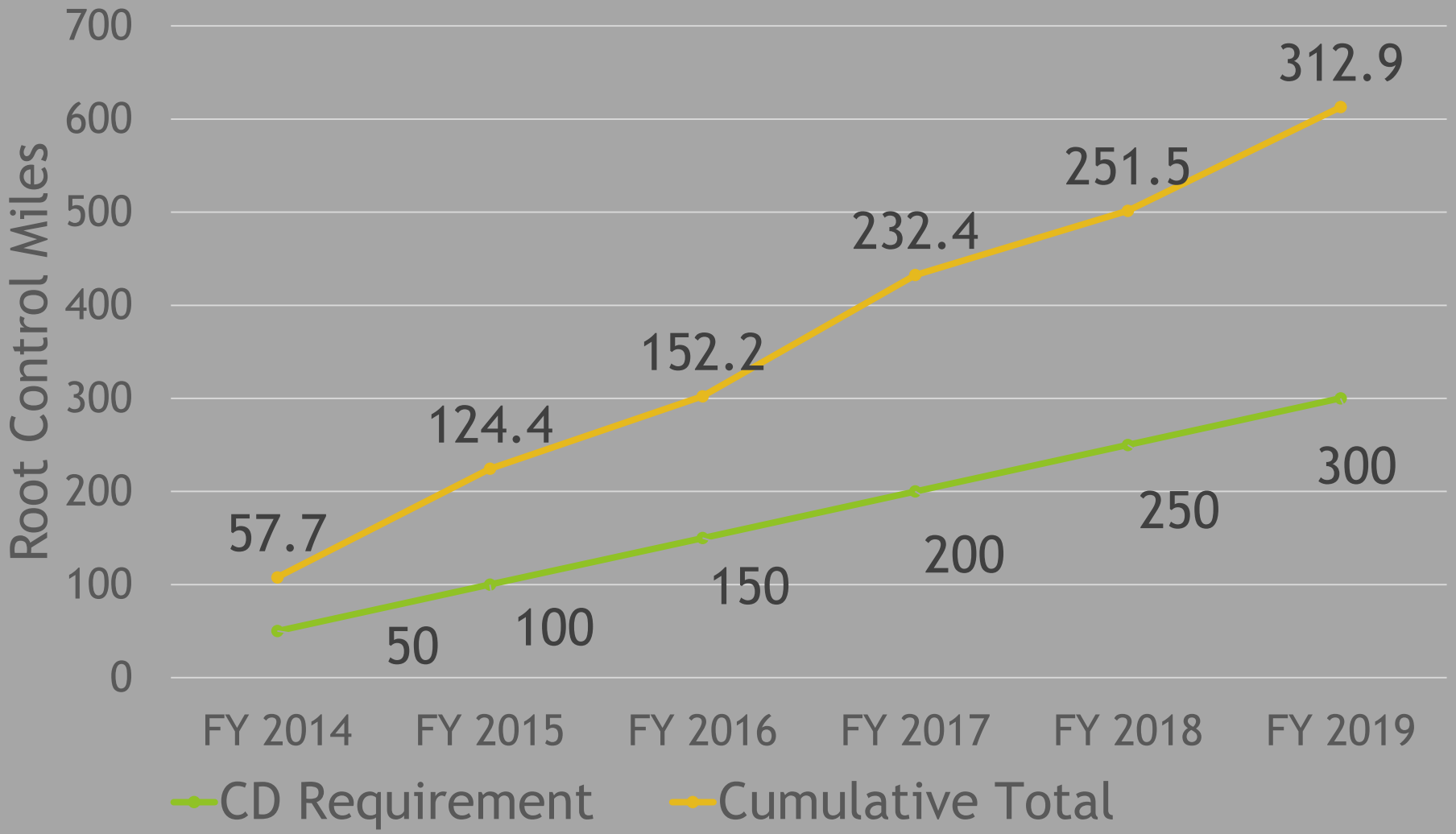
Reducing SSOs-Cleaning

- **Clean the entire sewer system by 2018 and 180 miles per year thereafter**

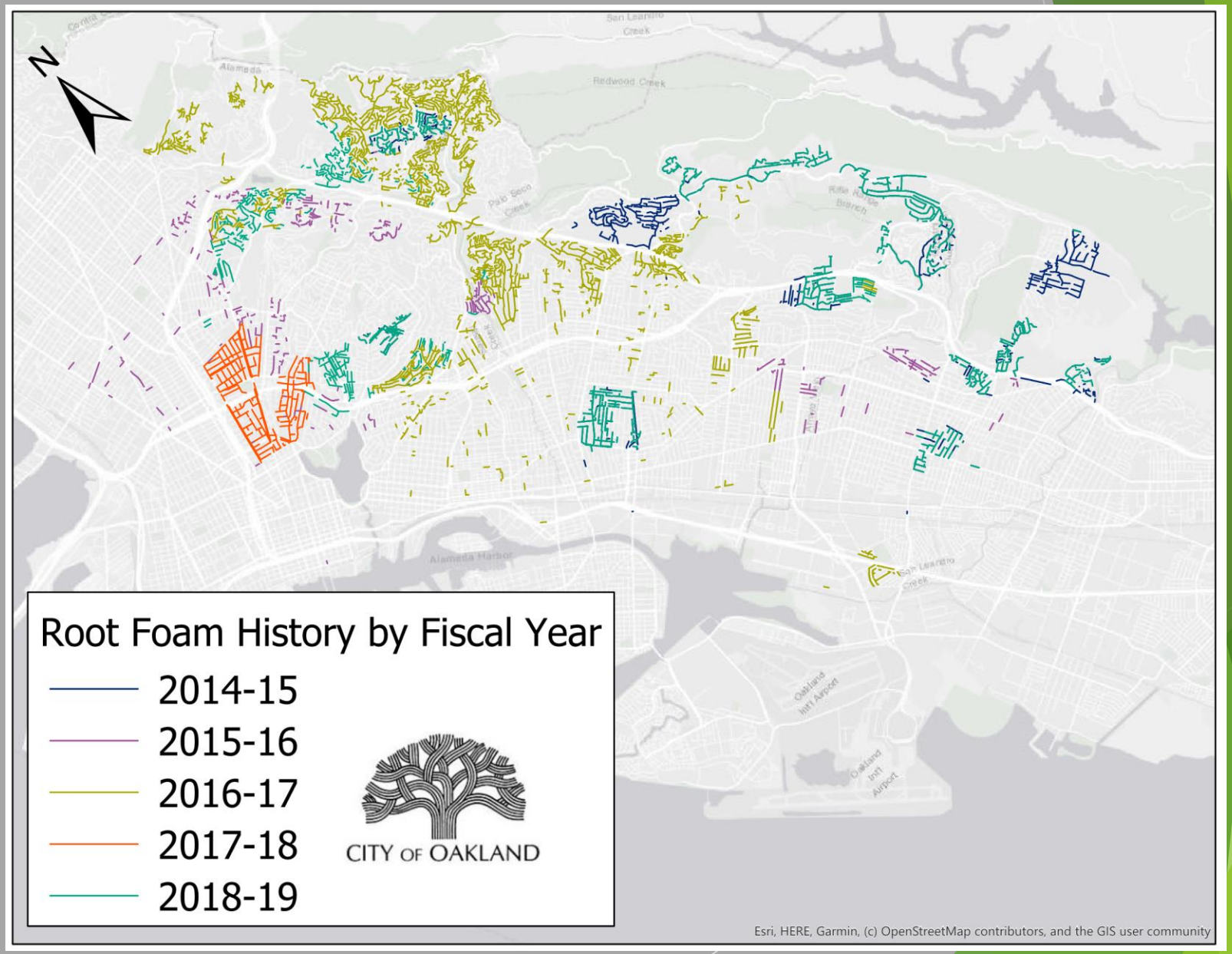


Reducing SSOs-Root Control

- Root foam 50 miles of sewer pipes per year



Reducing SSOs-Root Control



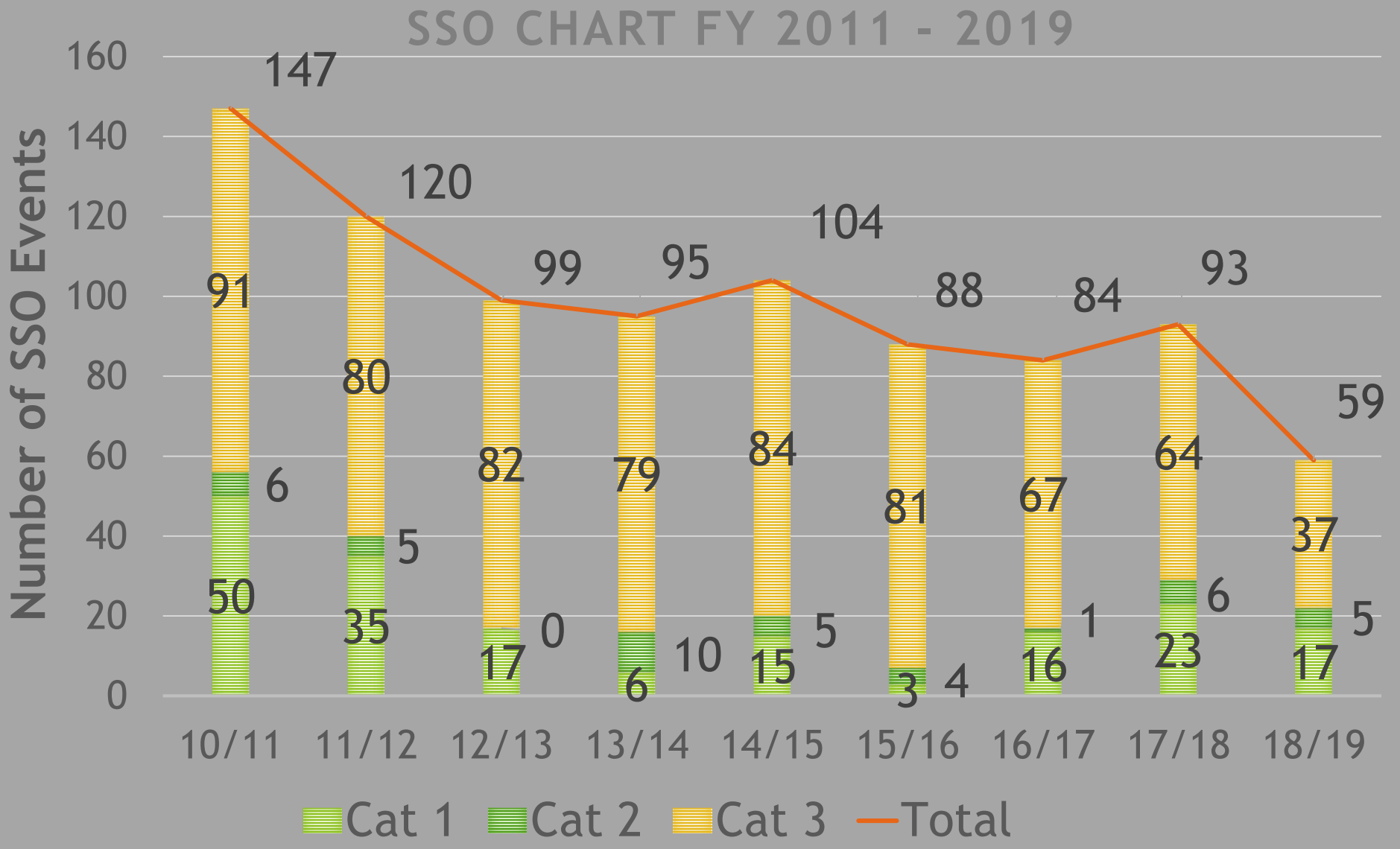
SSO Reduction - Capacity Assurance Monitoring

- 12 Locations per Consent Decree
- 7 Locations completed capacity improvements
- 5 Locations continually monitored

SSO Reduction – Category Terms

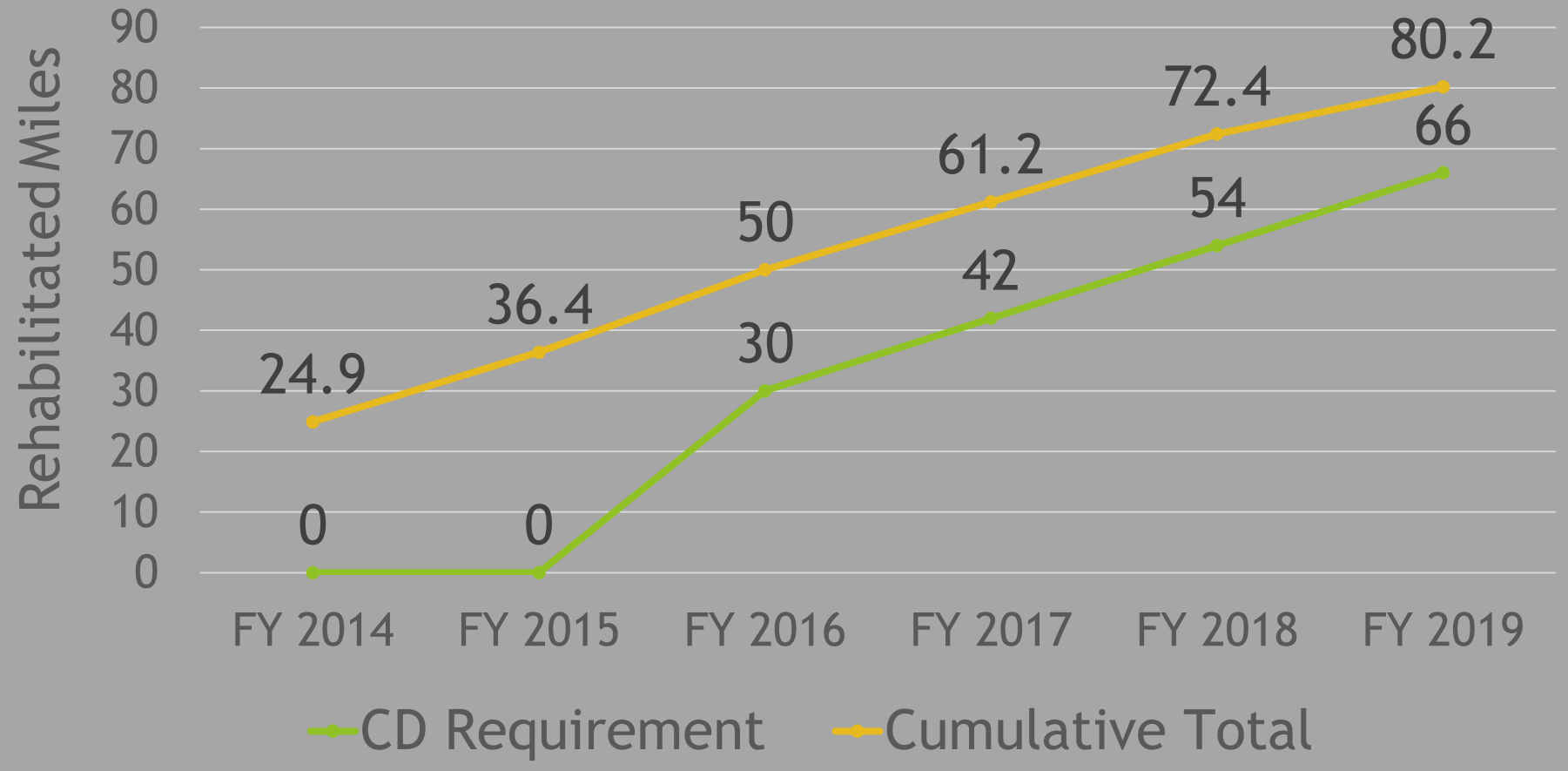
- **Cat 1 – Reached US Water**
- **Cat 2 – 1,000 gallons or greater not reached US Water**
- **Cat 3 – All other discharges of untreated or partially treated**

SSO Reduction – How Are We Doing?

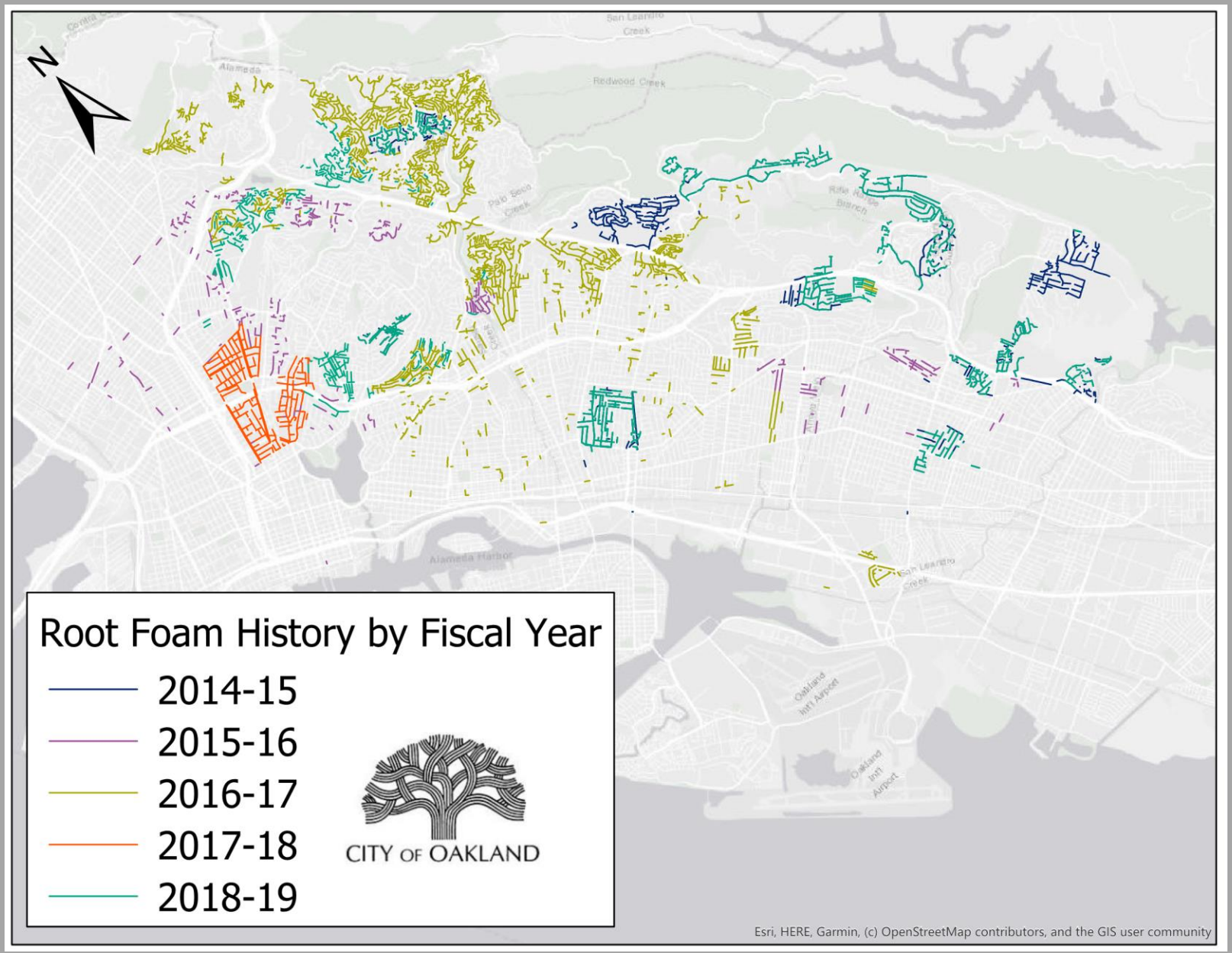


Reducing I/I – Sewer Main Rehabilitation

- Rehabilitate average of 12 miles of sewer pipes per year in targeted subbasins

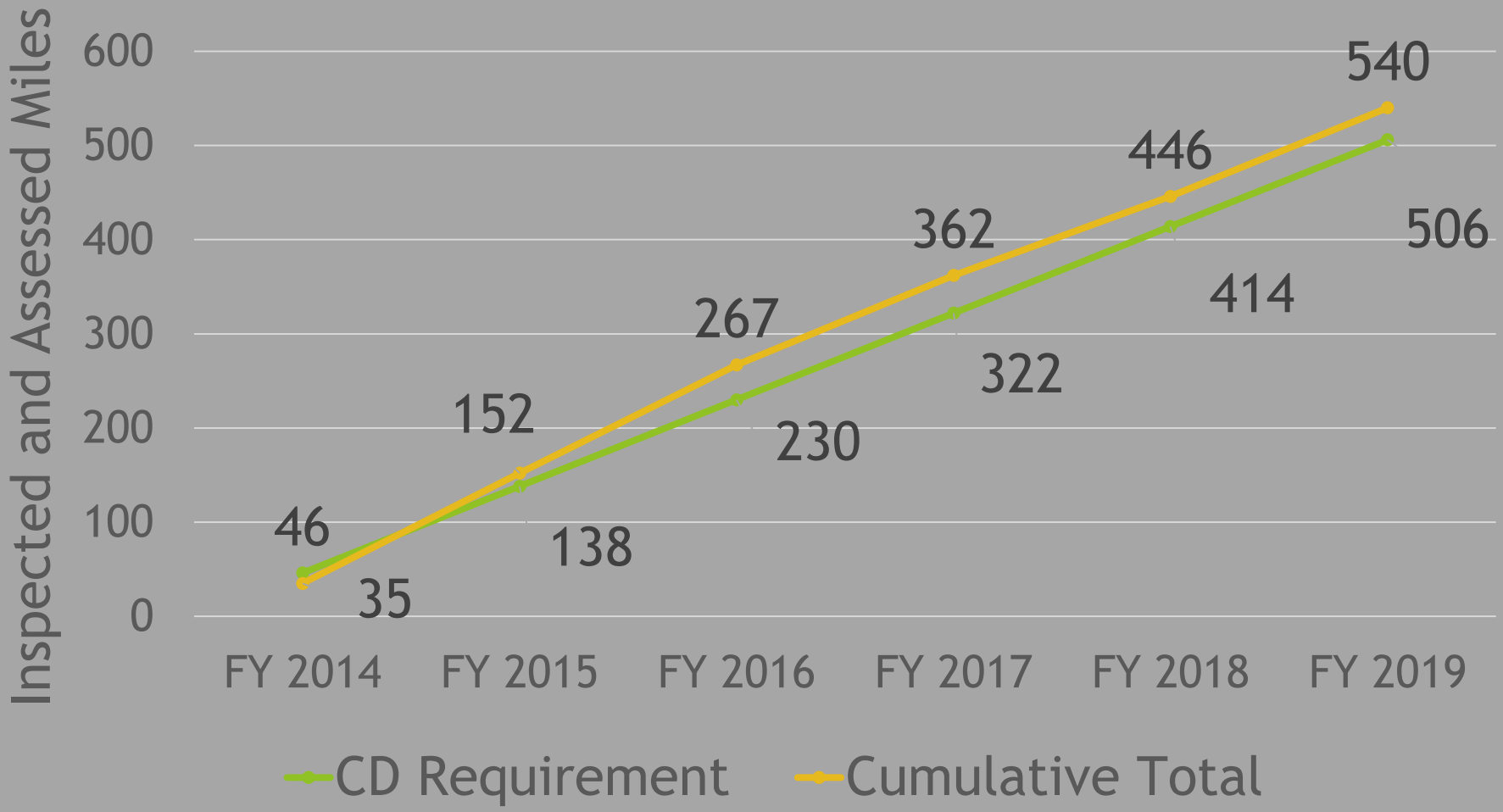


Reducing I/I – Sewer Main Rehabilitation

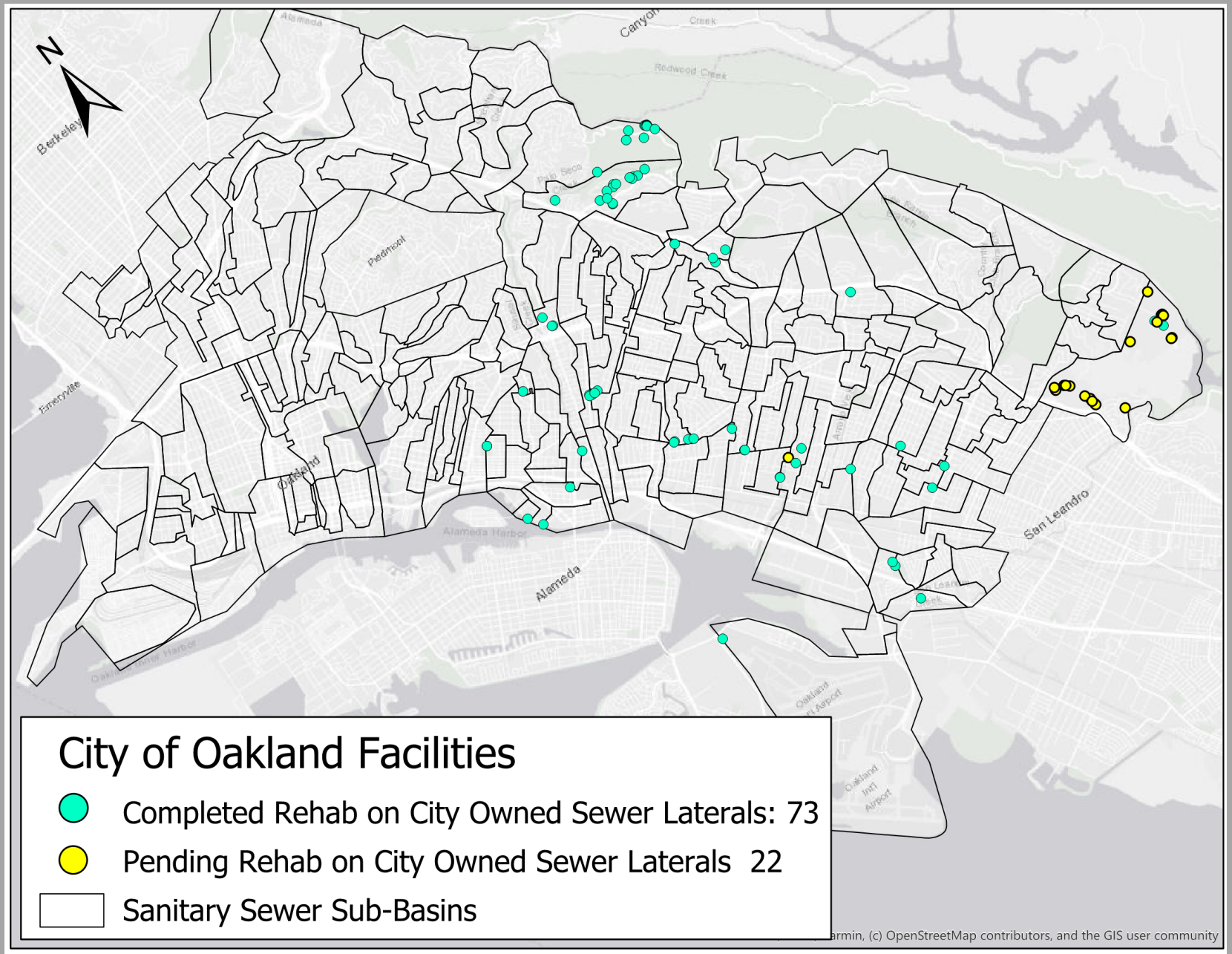


Reducing I/I – Sewer Main Inspections

- Inspect no less than 92 miles of total footage of sewer pipes per year



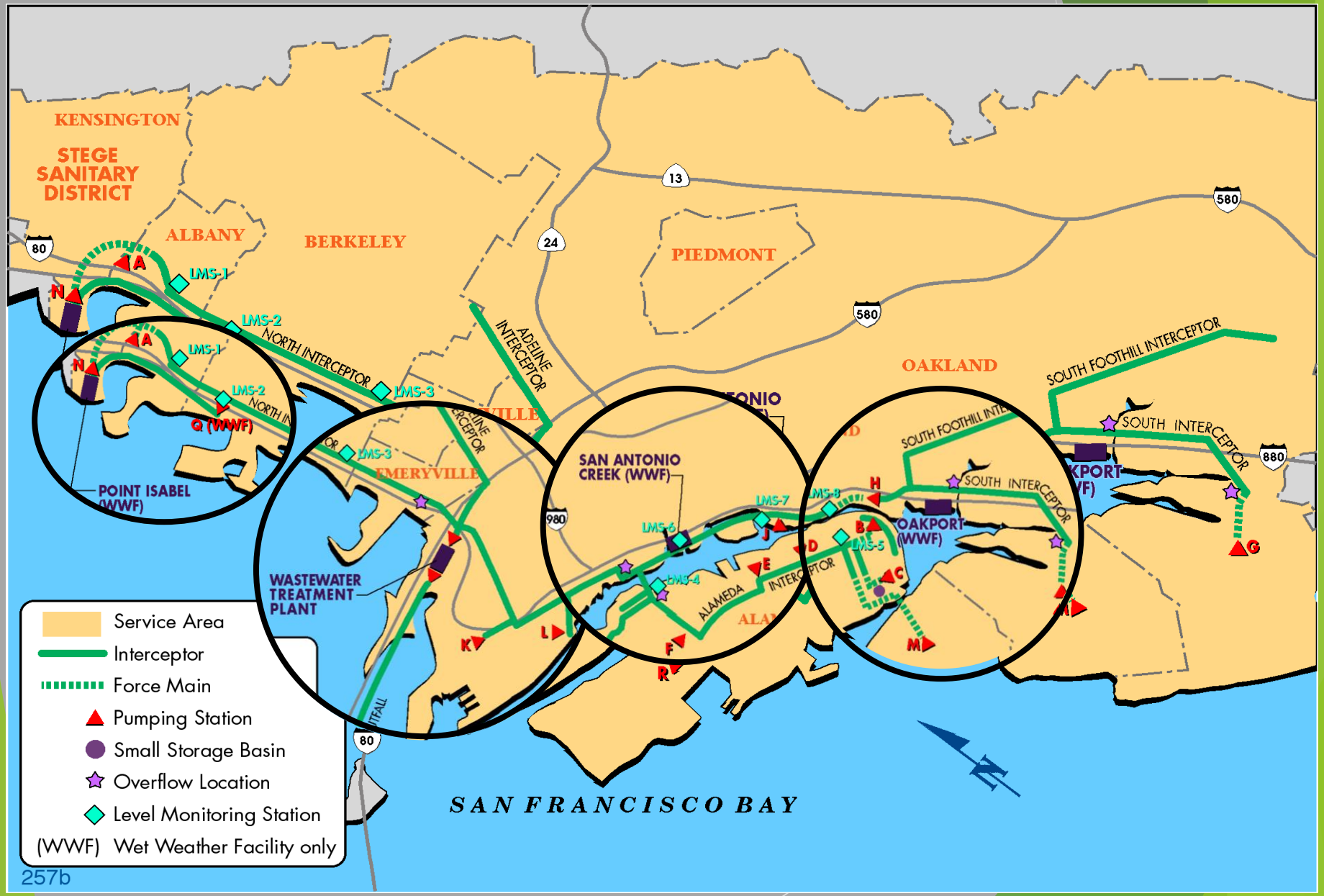
Reducing I/I – City-Owned Laterals



Reducing I/I – How Are We Measured Regionally?

- I/I Reductions are measured by the Output Ratio
- FY10 and FY11 Wet Seasons were used to establish a Baseline
- The predicted volume of discharge for the storm event at each WWF is known as the Baseline WWF Output
- This comparison of the annually calculated discharge volumes to the Baseline WWF Output is referred to as the Output Ratio

East Bay Collection



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Reducing I/I – How Are We Doing Regionally?

3-Year Average Output Ratios

- Point Isabel Wet Weather Facility
  - 100%
  - Target for FY18 70%
  - 0% by 2034

Reducing I/I – How Are We Doing Regionally?

3-Year Average Output Ratios

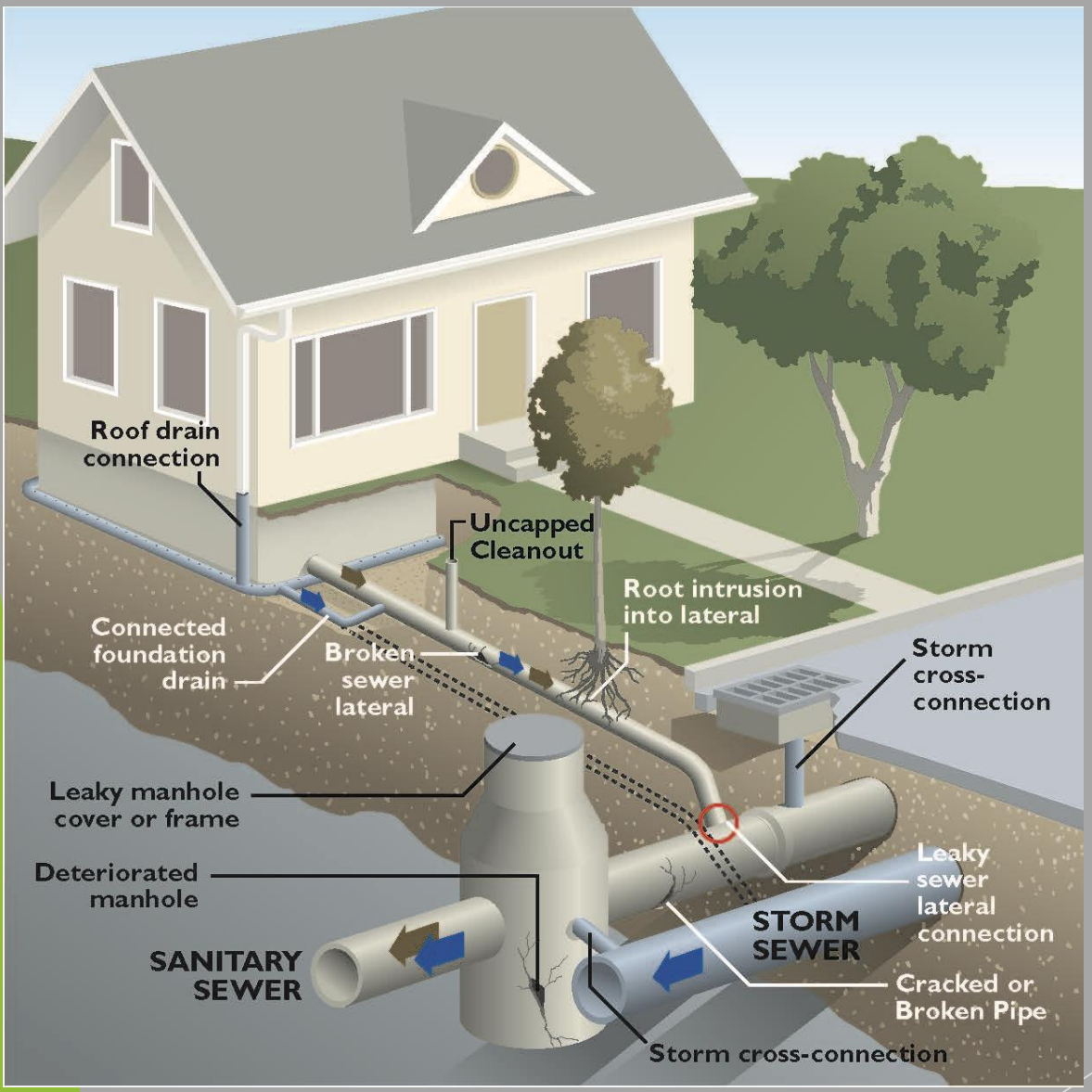
- Oakport Wet Weather Facility
  - 79%
  - Target for FY18 78%
  - 0% by 2036

Reducing I/I – How Are We Doing Regionally?

3-Year Average Output Ratios

- San Antonio Wet Weather Facility
  - 78%
  - Target for FY18 64%
  - 0% by 2028

Infiltration & Inflow Sources



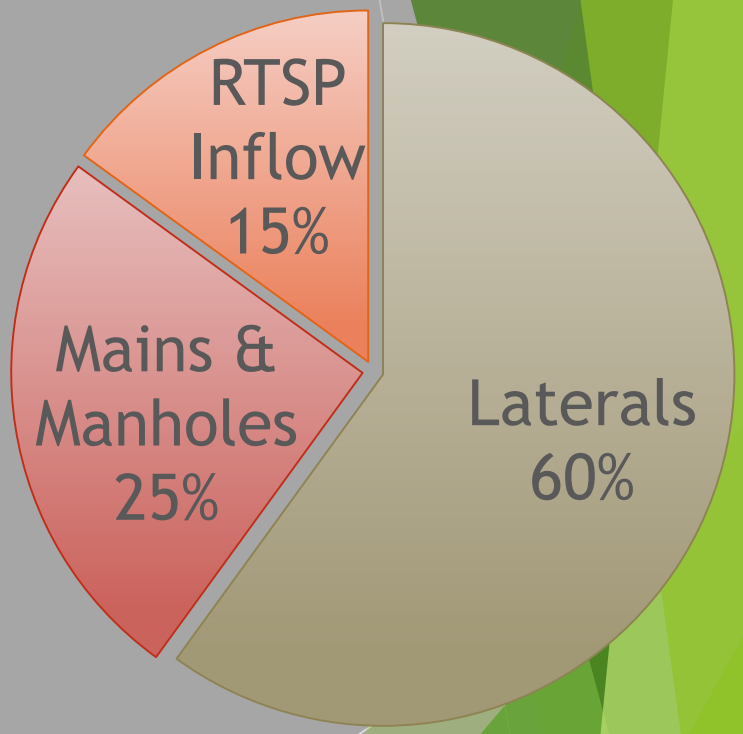


Image source: Capital Regional District, BC, Canada

Collaboration

- 7 Satellite Agencies, EBMUD, EPA, and RWQCB are working together for long-term improvements throughout the East bay region.
- Continually meet and monitor progress.
- Determine alternative work plans if necessary.