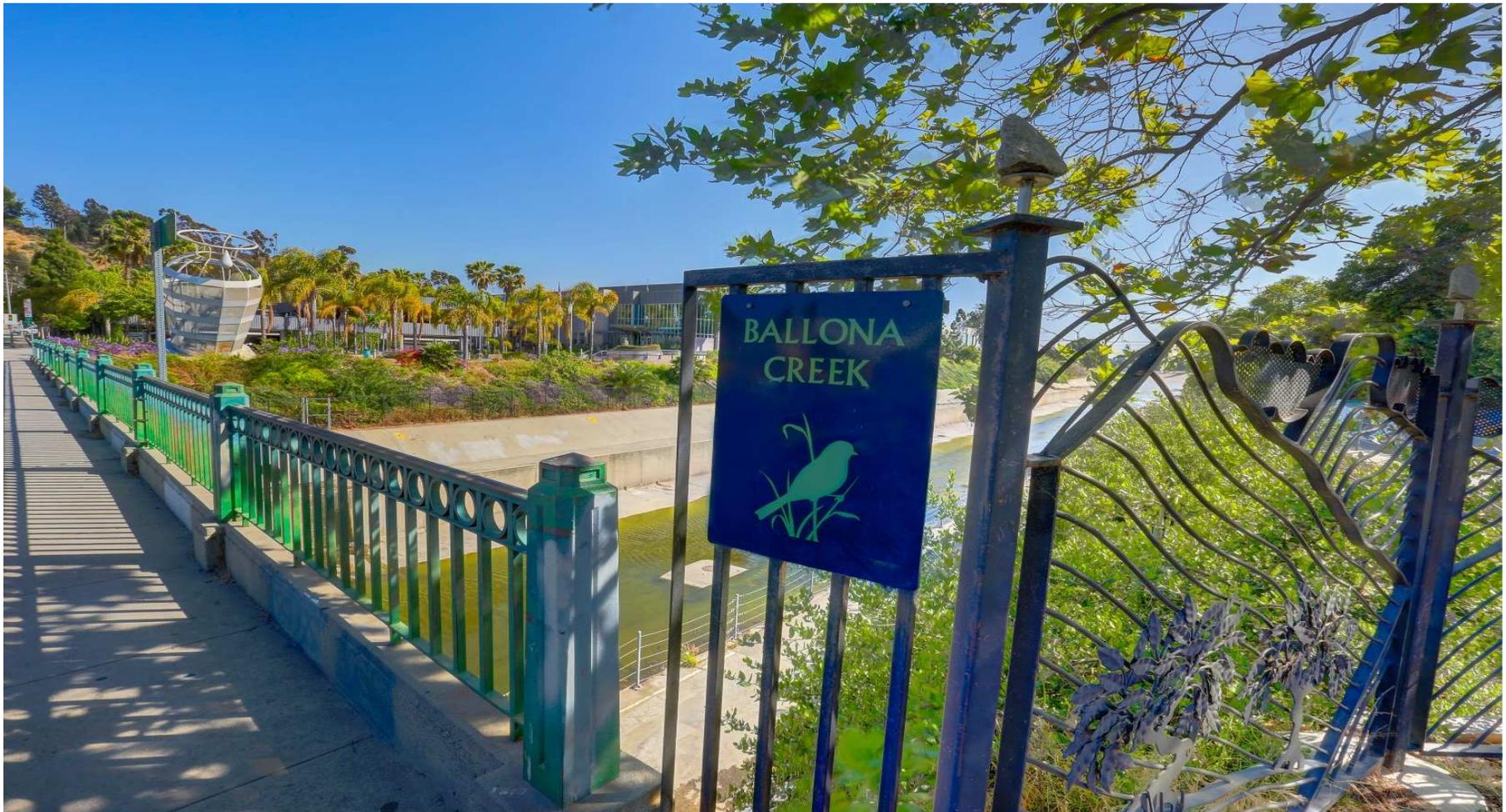


Ballona Creek Bacteria Total Maximum Daily Load & Water Quality Improvement Project

Santa Monica Bay Restoration Commission; June 15, 2017



Regulatory Framework



- **2007:** Effective date Ballona Creek Bacteria TMDL
- **2012:** Bacteria TMDL into MS4 Permit (enforceable)
- **2013:** 100% compliance milestone for dry weather
- **2015:** Issuance of Time Schedule Order by Regional Water Board for dry weather
- **2019:** Final compliance with TSO (dry weather)

Sources of dry weather runoff

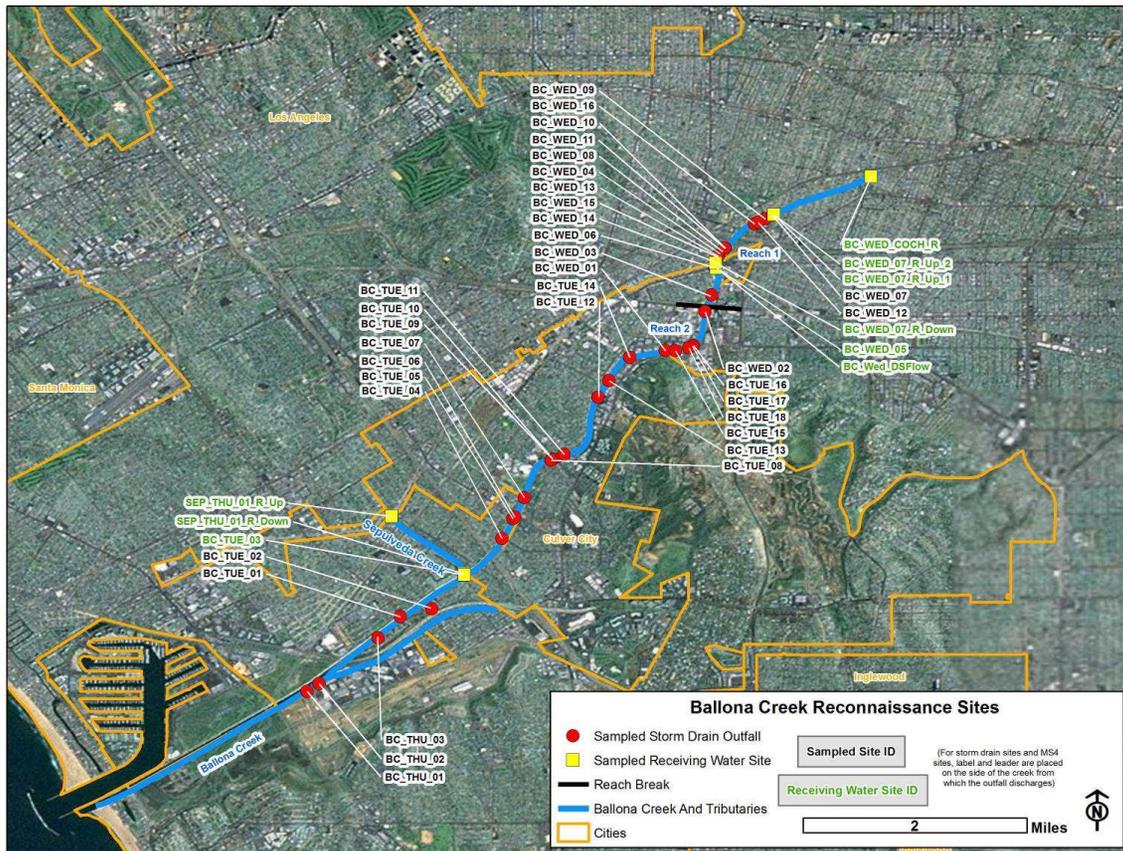
MS4 Permit prohibits non-stormwater discharges to MS4 but with several exceptions:

- Discharges authorized by other permits or EPA
- Emergency fire fighting activities
- Natural flows (springs, groundwater)
- Dewatering of lakes
- Landscape irrigation
- Dewatering of pools, spas, decorative fountains
- Non-commercial car washing
- Street/sidewalk washing

Dry weather flow in Ballona Creek is >95% from human activities (UCLA and SCCWRP, 2011)



Dry weather runoff discharges to Ballona Creek

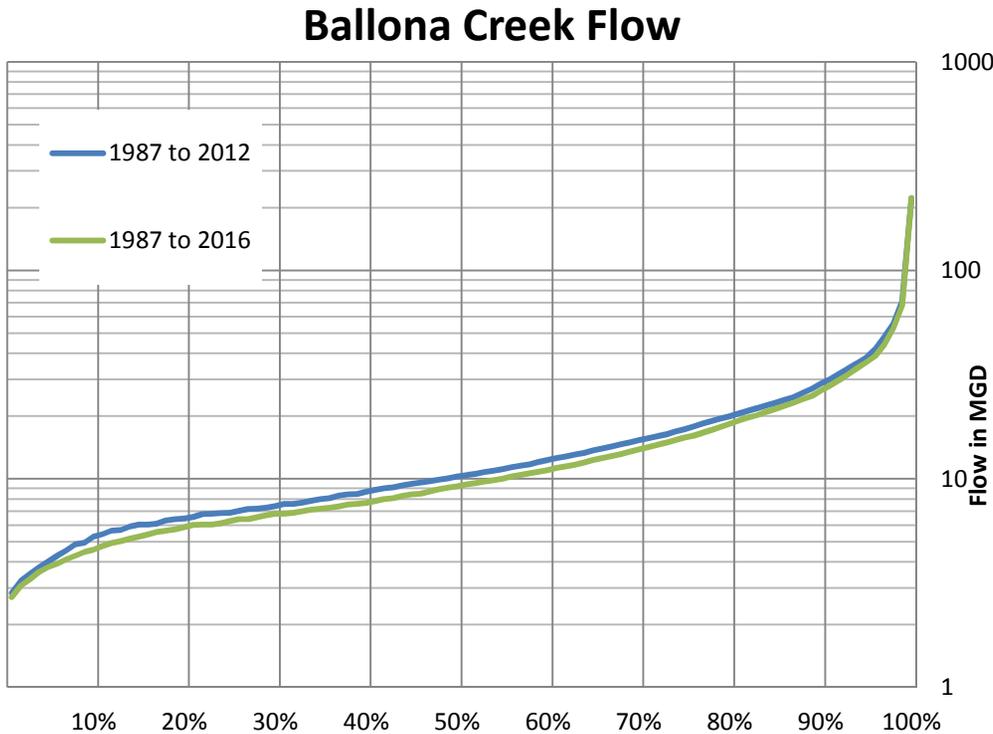


Outfalls:

- Total: ~250
- Flowing: ~40 to 50

Large number of outfalls favors a regional approach

Dry weather flow in Ballona Creek



Median dry weather flow:

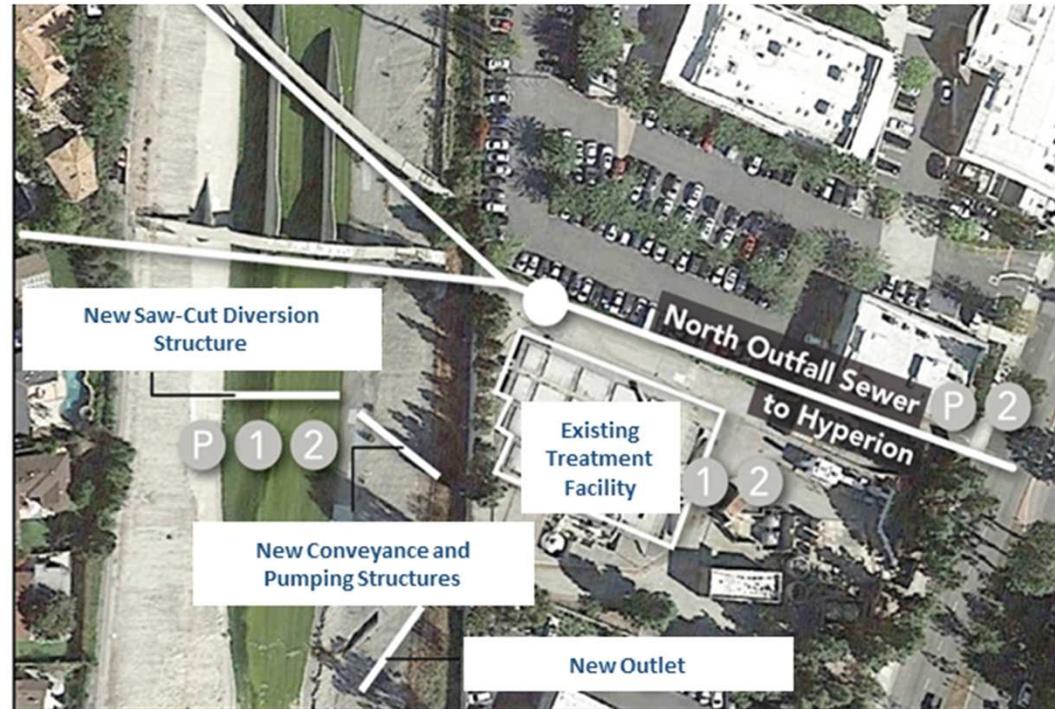
- 1987-2012: 10 MGD
- 2012-2016: 6 MGD
- Overall: 9 MGD

Design target: 29 MGD, being the 90th percentile flow

Proposed Low Flow Treatment Facility 1

At Ballona Creek mainstem:

- Retrofit of existing, but abandoned wastewater facility
- “Saw-cut” channel diversion
- UltraViolet disinfection of up to 6 MGD for release back to Ballona Creek
- Divert up to 23 MGD to Hyperion



Primary goal is to meet bacteria TMDL limits with the additional benefit of providing an alternative source of water for Hyperion

Proposed Low Flow Treatment Facility 2

At Sepulveda Channel:

- Construct new treatment facility adjacent to existing City sampling facility
- “Saw-cut” diversion channel
- UltraViolet disinfection of up to 1.3 MGD for release back to Sepulveda Channel



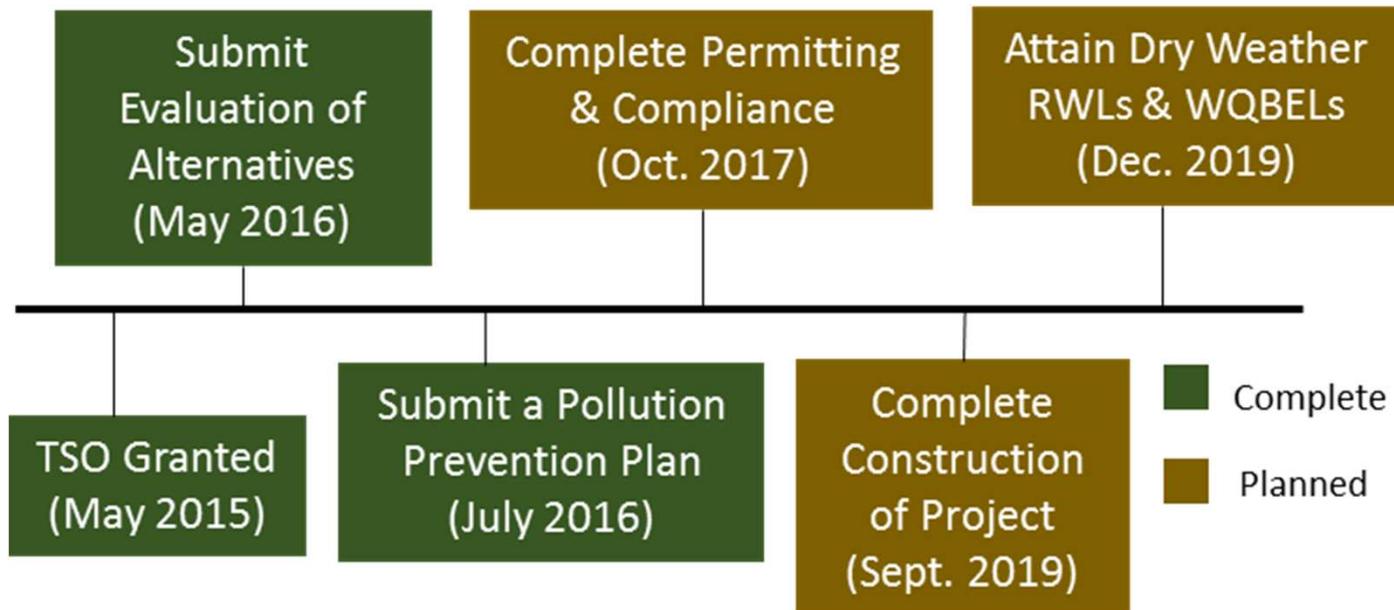
Proposed Mesmer Low Flow Diversion

At Centinela Creek:

- Convert existing wastewater pump station for diversion of runoff
- “Saw-cut” diversion channel
- Convey flow up to 0.97 MGD to Hyperion Water Reclamation Plant



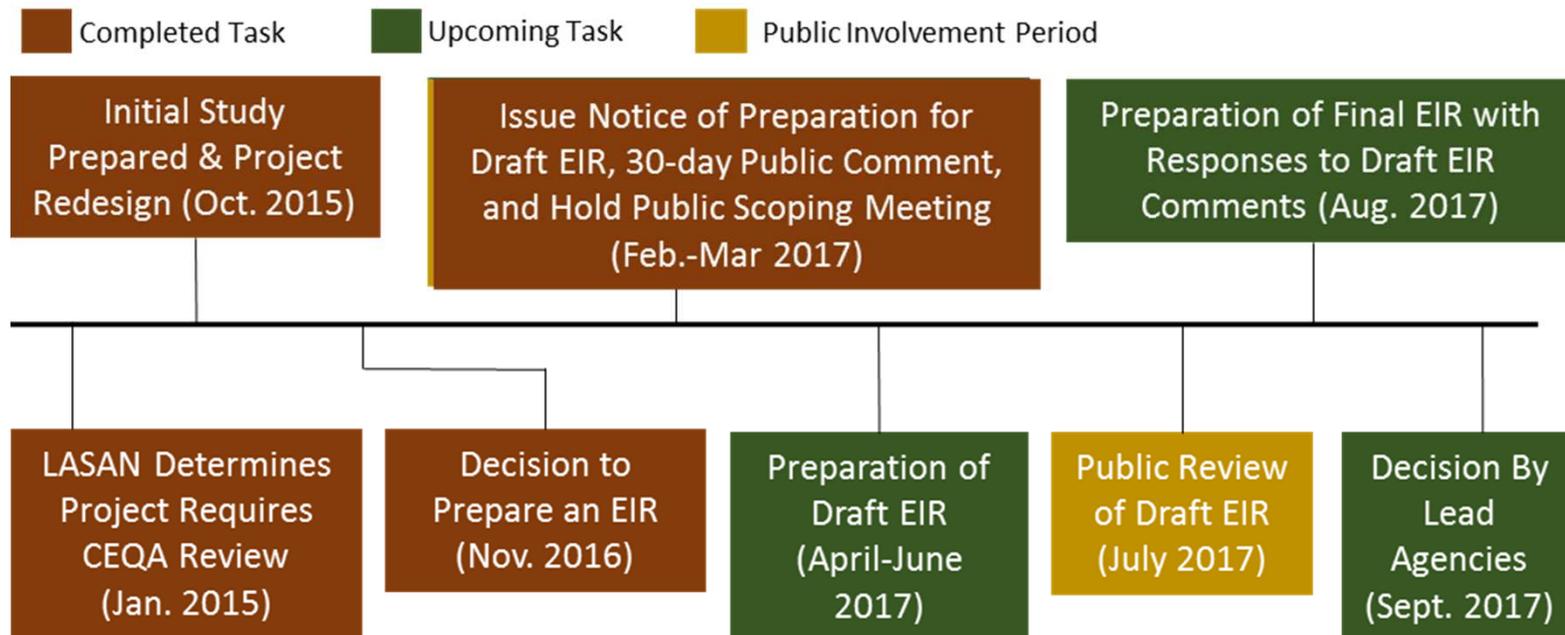
Project Overview



- CEQA/NEPA Compliance (Feb 2017- Oct 2017)
- Design and construction (Oct 2017 – Sep 2019)

Overview of CEQA/NEPA Process

- Initial Study: completed in 2015 to revise the Project design
- Environmental Impact Report: 2017, currently ongoing
- To meet the Time Schedule Order benchmarks, CEQA/NEPA process will be performed in less than a year



Public Outreach and Engagement

Organizations:

- Ballona Creek Renaissance
- Sierra Club
- Ballona Wetlands Trust
- Ballona Ecosystem and Education Project
- Ballona Institute
- Friends of Ballona Creek
- The Bay Foundation
- Heal the Bay
- LA Waterkeepers
- NRDC
- Surfrider Foundation
- Council for Watershed Health
- Santa Monica Bay Restoration Commission

Governmental:

- LA Council Districts 5, 6, 10, and 11
- LA Mayor's Office
- Neighborhood Councils (Westchester, Del Rey, West Adams)
- Del Rey Residents Association
- Culver City, Beverly Hills, Inglewood, West Hollywood
- LA County Public Works

Regulatory/permitting:

- Regional Water Quality Control Board
- State Water Resources Control Board
- CA Coastal Commission
- CA Fish & Wildlife
- US EPA
- US Army Corp of Engineers
- LA County Flood Control



Thank you



For info: lastormwater.org