



Council Motion 22-0528 Responding to the Urgent Water Drought

Energy, Climate Change, Environmental Justice, and River Committee

October 6, 2022

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LA Sanitation and Environment**



Water Recycling and Reuse: current status

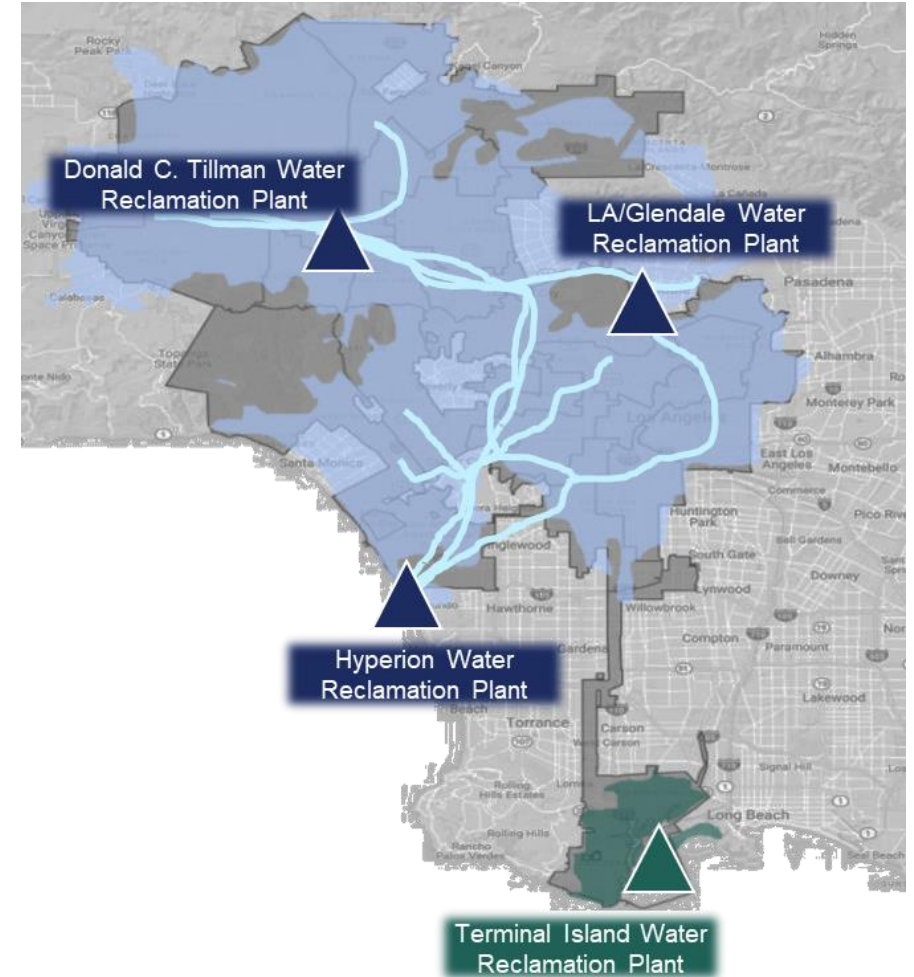
- Clean Water Program
 - Population: 4.7 million
 - Area: 600 square miles
 - Sewer system: 6,700 miles

Recycled Water Production 2020-2021



Water Reclamation Plant (WRP)	Flow In (mgd)	Water Reused* (mgd)
Hyperion WRP	248	73
Los Angeles - Glendale WRP	13	13
Donald C. Tillman WRP	28	28
Terminal Island WRP	12	5
Total	301	119

*water is used for potable offset, in-plant uses, Dominguez Gap, WBMWD, Japanese Garden, and more



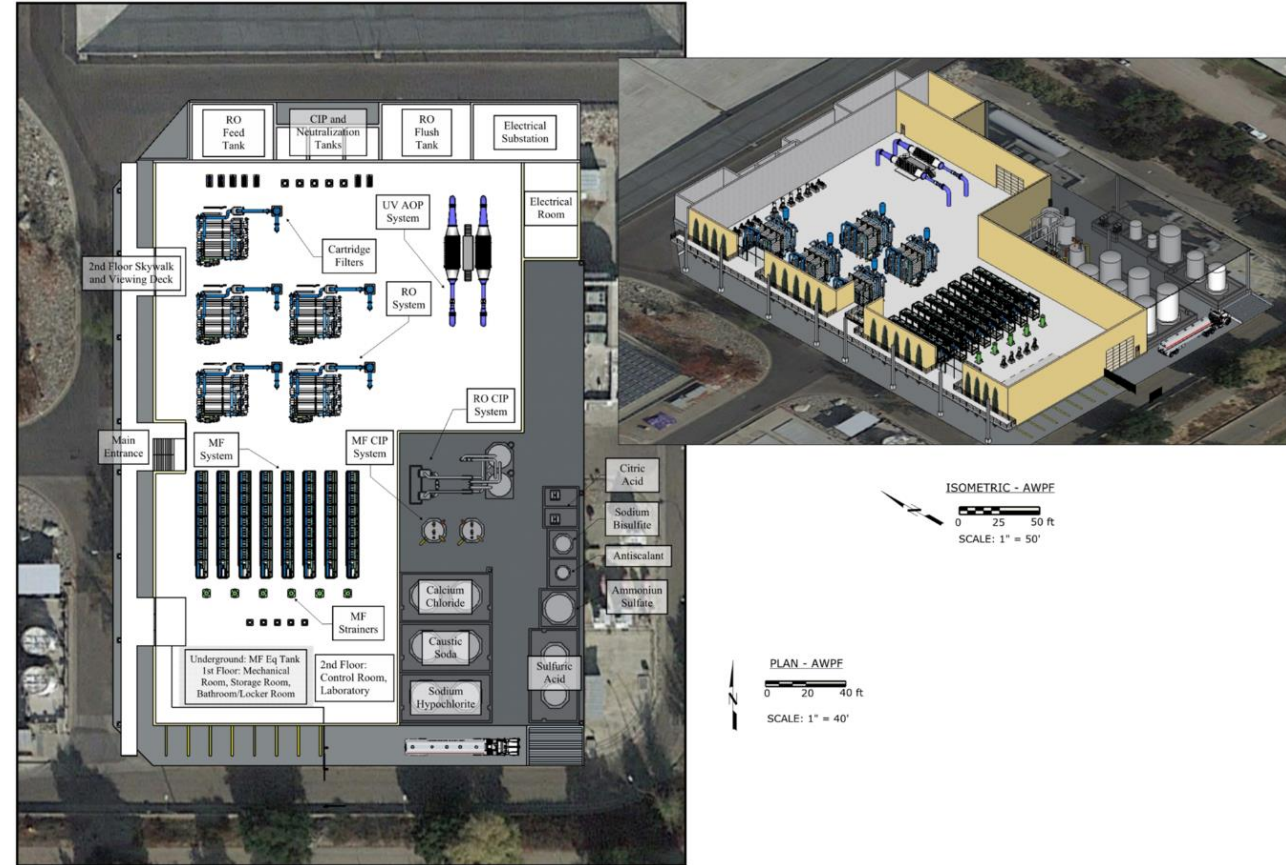
Terminal Island WRP: Advanced Water Purification Facility

- 100% Recycled Water
 - Phase 1: 6 MGD in 2006
 - Phase 2: 12 MGD in 2017
- Current status
 - Fully operational
 - 2021 CA WaterReuse Excellence Award
 - Dominguez Gap Seawater Barrier largest end use at 6 MGD
- Working on process optimization
 - Advanced Oxidation (AOP) effluent recirculation system
 - Replacement of microfiltration
 - Reverse Osmosis (RO) concentrate ammonia injection



Donald C. Tillman WRP: Advanced Water Purification Facility

- Project goals
 - 19.5 MGD design flow
 - Groundwater recharge in San Fernando Valley
- Project Partners
 - LASAN, LADWP
- Current status
 - Conceptual design completed
 - Design-build RFP issued and evaluated
- Next steps
 - Execution of MOA by LASAN and LADWP
 - Selection of design/builder
 - Contract award



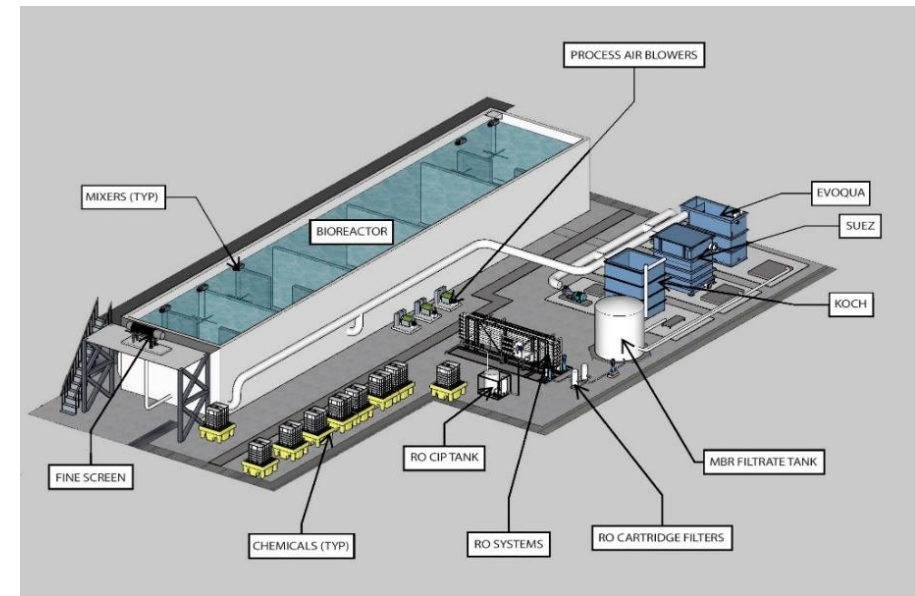
Los Angeles - Glendale WRP: Urban Waterway & Water Technology Center

- Project goals
 - Test and demonstrate advanced water purification processes for indirect and direct potable reuse
 - Provide community amenities
- Current status
 - Predesign complete
- Next steps
 - Permitting
 - Design completion
 - Construction



Hyperion WRP: Hyperion 2035 Program

- Program goals
 - Transform Hyperion to 100% water recycling for indirect and direct potable reuse
 - Leverage water recycling and Hyperion's resiliency efforts
- Current status
 - Pilot and demonstration projects with LADWP, LAWA, West Basin MWD: finalizing construction
 - Program Implementation Plan: predesign of advanced water purification processes at Hyperion
 - Program Management Plan: effective delivery of the Hyperion 2035 Program
 - Technical and Community Advisory Groups: ongoing workshops with 40+ organizations
 - CEQA: Joint Programmatic EIR with LADWP





Stormwater



Low Flow Diversion (LFD's): Urban Runoff for Recycling Efforts

- Dry weather diversions divert urban runoff to improve water quality and provide a reliable source of water for recycling efforts.

- 10 City LFD's Completed (9.6 MGD)

PROJECT TITLE	WATERSHED	Design Flow (MGD)
Marquez Avenue Low Flow Diversion	Santa Monica Bay	0.15
Bay Club Drive Low Flow Diversion Project	Santa Monica Bay	0.17
Temescal Canyon Low Flow Diversion	Santa Monica Bay	1
Palisades Park Low Flow Diversion Project	Santa Monica Bay	0.8
Santa Monica Low Flow Diversion Project	Santa Monica Bay	3.5
Thornton Avenue Low Flow Diversion Project	Santa Monica Bay	0.17
Venice Pavilion Low Flow Diversion Project	Santa Monica Bay	0.1
Imperial Highway	Santa Monica Bay	0.06
8th Street S.D. Low Flow Diversion	Los Angeles River	0.43
7th Street S.D. Low Flow Diversion	Los Angeles River	3.23

- 1 LFD's in Design (0.3M)

PROJECT TITLE	WATERSHED	Design Flow (MGD)
LA River LFD's (Compton Creek) #1	Los Angeles River	0.03

- 7 LFD's in construction (31.5 MGD)

PROJECT TITLE	WATERSHED	Design Flow (MGD)
Arroyo Seco Low Flow Diversion (Sycamore Grove Park, LFD#1, AS-15)	Los Angeles River	0.13
Arroyo Seco Low Flow Diversion (Hermon Dog Park, LFD#2, AS-21)	Los Angeles River	0.01
LA River LFD (Palmetto, LFD#1, R2-J)	Los Angeles River	0.43
LA River LFD (Mission Rd, LFD#2, R2-G)	Los Angeles River	0.34
LA River LFD (2nd St & Rose LFD#3, R2-02)	Los Angeles River	0.13
Ballona Creek Low Flow Treatment Facility (LFTF-1)	Ballona Creek	29
Sepulveda Channel Low Flow Treatment (LFTF-2)	Ballona Creek	1.3

- 10 LFD's Planned (0.5 MGD)

PROJECT TITLE	WATERSHED	Design Flow (MGD)
LA River LFD's (Compton Creek) #2	Los Angeles River	0.13
White Oak Avenue (LAR-E-021)	Los Angeles River	0.02
Reseda Boulevard (LAR-E-048)	Los Angeles River	0.02
Wilbur Avenue (LAR-E-058)	Los Angeles River	0.11
Tampa Avenue (LAR-E-065)	Los Angeles River	0.02
Haynes Street (LAR-E-077)	Los Angeles River	0.04
Winnetka Avenue (LAR-E-081)	Los Angeles River	0.01
De Soto Avenue (LAR-E-096)	Los Angeles River	0.06
De Soto Avenue (LAR-E-097)	Los Angeles River	0.01
Canoga Avenue (LAR-E-110)	Los Angeles River	0.05

Recently Completed Stormwater Capture Projects

Agnes Ave: Gentry Ave & Vanowen St (CD 2)



Before (2019)



After (2021)

Ben & Victory Blvd (near Goodland Ave) (CD 2)



*Before
(2019)*



*After
(2021)*

Argo Drain Sub-basin Facility (CD 11)



*Drainage area = 2,290 acres
Estimated Capture: ~ 1,176 AFY*



Safe Clean Water (Measure W) Efforts & Stormwater Capture Outlook

Regional Round 1 Projects

Project Title	Estimated Stormwater Capture (AF)	Anticipated Construction Completion Date
Valley Village Park Stormwater Capture Project, CD 2 (DWP)	99	6/2025
Fernangeles Park Stormwater Capture Project, CD 6 (DWP)	192	10/2025
Strathern Park North Stormwater Capture Project, CD 2 (DWP)	294	12/2025
Oro Vista Local Area Urban Flow Management Project, CD 7 (LASAN)	22	6/2026
Wilmington Q Street Local Urban Area Flow Management Project, CD 15 (LASAN)	17	9/2026
MacArthur Lake Stormwater Capture Project, CD 1 (LASAN)	5	10/2026
Lankershim Blvd Local Area Urban Flow Management Project CD 2 & 7 (LASAN)	52	10/2027
TOTAL	689	—

Regional Round 2 Projects

Project Title	Estimated Stormwater Capture (AF)	Anticipated Construction Completion Date
David M. Gonzales Recreation Center Stormwater Capture Project, CD 7 (DWP)	342	8/2025
Wilmington Neighborhood Greening Project, CD 15 (LASAN)	10	9/2026
Lincoln Park Neighborhood Project, CD 1 (LASAN)	46	3/2027
Valley Plaza (North) Park Stormwater Capture Project, CD 2 (DWP)	590	6/2028
TOTAL	988	—