



Mayor Eric Garcetti



# City of Los Angeles Hyperion Water Reclamation Plant 100% Water Recycling Program



May 22, 2019

# OUR COMMITMENT

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- ❑ **Mayor Eric Garcetti's Plan for 100% Water Recycling at Hyperion**
- ❑ **Mayor Eric Garcetti's Executive Directive No.5**  
(Emergency Drought Response)
- ❑ **Mayor Eric Garcetti's Executive Directive No.7**  
(Sustainable City Plan)
- ❑ **One Water LA 2040 Plan**
- ❑ **Los Angeles Green New Deal**



## OUR COMMITMENT

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- ❖ **Reduce Purchased Imported Water by 50% by 2024**
- ❖ **Source 70% of City's Water Supply Locally by 2035**
- ❖ **100% Full Advanced Treatment (FAT) Water Recycling at HWRP by 2035**



# LASAN WASTEWATER SYSTEM OVERVIEW

## ➤ Hyperion Service Area Information

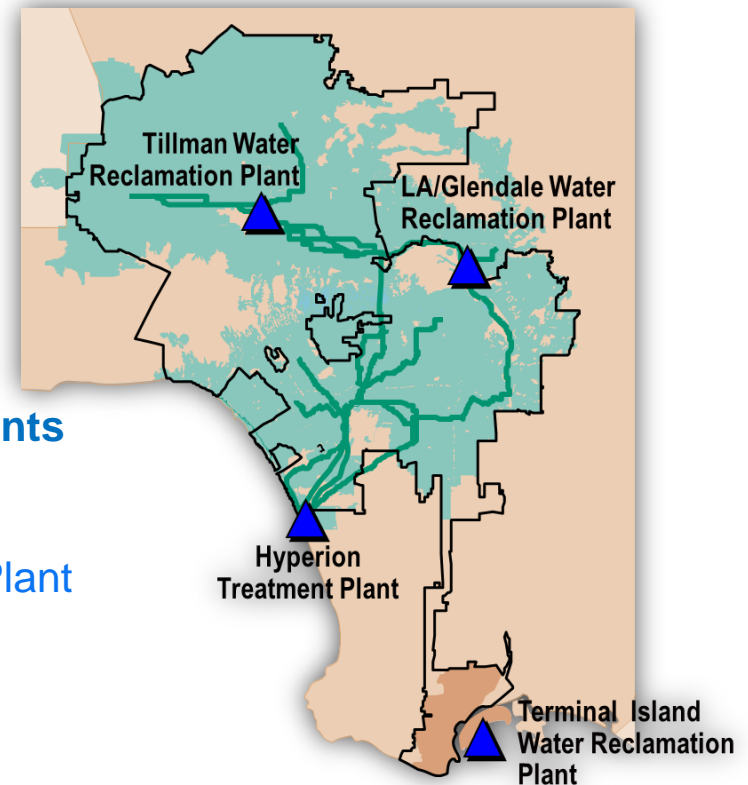
- Population served : 4,000,000
- Area served : 600 Square Miles
- Sewer System Length: 6,700 Miles
- Average System Flow: 306 MGD

## ➤ Hyperion Service Area: 3 Interconnected Plants

- Tillman Water Reclamation Plant
- Los Angeles Glendale Water Reclamation Plant
- Hyperion Water Reclamation Plant

## ➤ Terminal Island Service Area

- 100% of Flow is Recycled
- Average System Flow: 12 MGD



# LASAN WASTEWATER SYSTEM OVERVIEW

Plant	Treated Wastewater (MGD)	Recycled Water (MGD)	RECYCLED WATER AND BENEFICIAL USES %
<b>HWRP</b>	260	71	27% Recycled and Beneficially Used
<b>DCTWRP</b>	32	32	100% Recycled and Beneficially Used
<b>LAGWRP</b>	14	14	100% Recycled and Beneficially Used
<b>TIWRP</b>	12	12	100% Recycled with AWPf
<b>TOTAL</b>	<b>318</b>	<b>129</b>	

## Beneficial Reuse:

**HWRP:** In-Plant Water

**DCTWRP:** In-Plant Water, Japanese Garden, Balboa & Wildlife Lakes, LA River

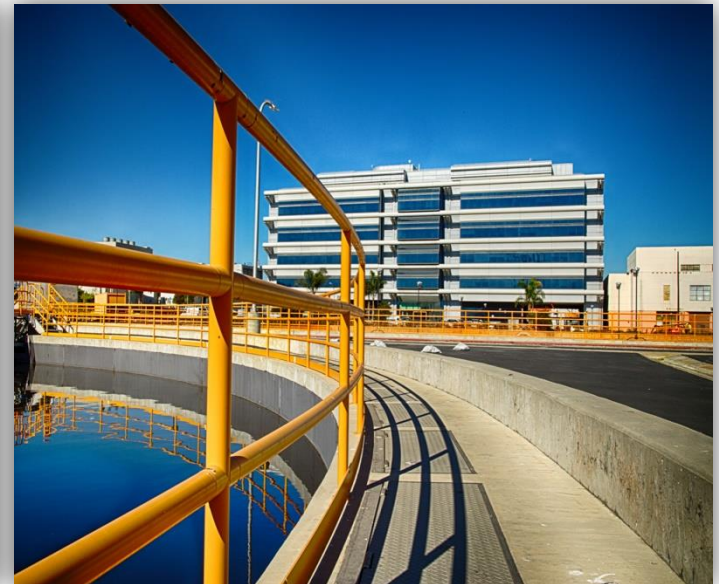
**LAGWRP:** In-Plant Water and LA River

**TIWRP:** In-Plant Water

AWPF : Advanced Water Purification Facility

## HWRP CURRENT WATER RECYCLING STATUS

- HWRP Internal Use – 36 MGD of Filtered Secondary Effluent
- West Basin Municipal Water District – 35 MGD of Secondary Effluent
- Total Recycled Water – 71 MGD



## 100% WATER RECYCLING PROGRAM

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Two major initiatives to meet Mayor Garcetti's Goals:

- Hyperion Advanced Water Purification Facility
- Hyperion Membrane Bioreactor Pilot Facility

Data obtained will be utilized for the transformation of Hyperion aligned with Mayor's vision of creating a sustainable and resilient water supply to reality.







# 100% WATER RECYCLING PROGRAM

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## Hyperion MBR Pilot Facility Project

- An important step towards the city's goal of sourcing its water from local supplies that are sustainable and resilient.
- A joint effort between the LASAN, LADWP, and WBMWD.
- Three Party MOA signed in January 2018



**MBR**



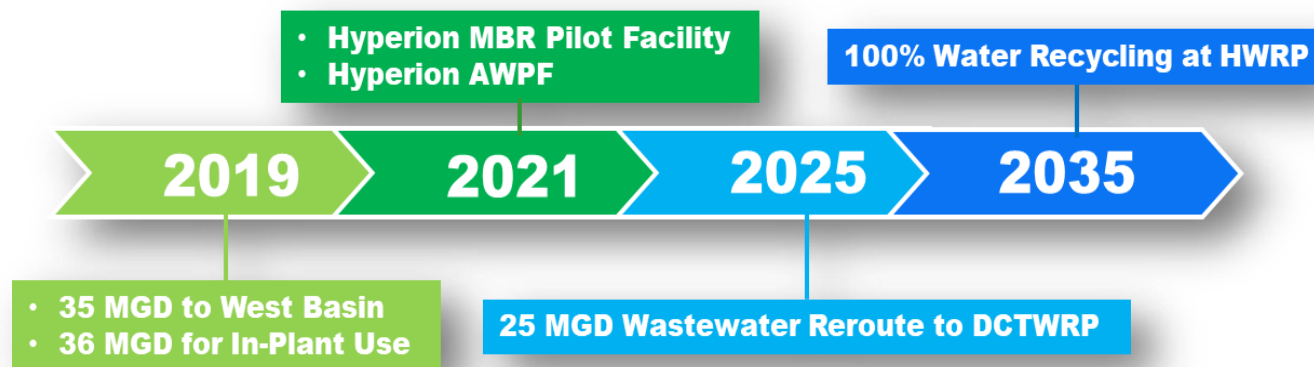
**RO**



**UV - AOP**

# 100% WATER RECYCLING PROGRAM

- Construct Hyperion MBR Pilot Facility by April 2021
- Construct Hyperion AWPf by December 2021
- Reroute up to 25 MGD of Hyperion tributary flows to DCTWRP to increase recycled water production at DCTWRP by 2025
- Complete Construction of Advanced Water Purification Facility for 100% Water Recycling by 2034 (Preliminary Estimate)
- Produce up to 174 MGD of advanced-treated recycled water by 2035



# QUESTION/COMMENTS

