Meeting Agenda
June 14, 2022
11:30 a.m. – 1:00 p.m.

Location: **Los Angeles Sanitation and Environment (LASAN)**
Hyperion Water Reclamation Plant
Environmental Learning Center
12000 Vista Del Mar
Playa Del Rey, CA 90293

For virtual participation, please register for the *Zoom meeting via the following link:*

https://us02web.zoom.us/meeting/register/tZwtdOqurTosHdet_7KssKL_fLiOhXRCrf7r

The mission of Los Angeles Chapter of the WateReuse Association is to enhance the resiliency and sustainability of Los Angeles County by increasing the safe, beneficial use of recycled water. Its objectives shall be to promote water reclamation and recycling as a sustainable supplemental source of water for the state; to work for the adoption of legislation and regulations that allow the safe use of recycled water; to facilitate the development of technology aimed at improving water recycling; to promote legislation that would increase funding for water recycling projects; to provide mutual assistance and support between and among Chapter members involved with water recycling projects; and to increase public awareness and understanding of related water problems and solutions.

Welcome, Introductions and Instructions…….....…….....…. 11:30 a.m.

1. Host presentation: Advanced Water Resiliency and Reliability at LASAN's Water Reclamation Plants *(Ryan Thiha, Charles Senaya/LASAN)*
2. Sponsor presentation: Hyperion 2035 and 100% Reuse *(Farzaneh Shabani/Carollo)*
3. Technical Topic: Viral Surrogates for Water Reuse *(Dr. Sunny Jiang/UC Irvine)*
4. Water Recycling Legislative/Regulatory Updates *(Raymond Jay)*
5. Regulatory Agency Update
6. California State Section Update *(Rafael Villegas)*
7. Chapter Updates *(Judi Miller)*
    a. February and April 2022 Member Meeting Summaries
    b. Volunteer Opportunities
    c. Emerging Professionals Committee Update *(Alex Waite)*: Member survey results
8. Membership Roundtable *(Fred Gerringer)*
9. Next Meetings
    - August 9, 2022 – Host: West Basin Municipal Water District; Sponsor: TBD
    - October 11, 2022 – TBD (Possible joint session with the OC Chapter)
10. Adjournment ……..…….. 1:00 p.m.
11. Membrane Bioreactor Pilot Facility Tour

Los Angeles Chapter Officers for 2020/2022

Fred Gerringer, President	626-319-1107	fgerringer@hazenandsawyer.com
Jared Lee, Vice President	626-379-8443	JLee@burbankca.gov
Judi Miller, Secretary/Treasurer	213-228-8236	judi.miller@jacobs.com
Rafael Villegas, Chapter Trustee	213-367-1289	rafael.villegas@ladwp.com
Raymond Jay, Past-President	213-217-5777	rjay@mwdh2o.com

Advanced Water Resiliency and Reliability at LASAN's Water Reclamation Plants

Ryan Thiha, Sr. Environmental Engineer, WESD
Charles Senaya, Sr. Environmental Engineer, WRID
Lance Thibodeaux, Environmental Engineer, TIWRD

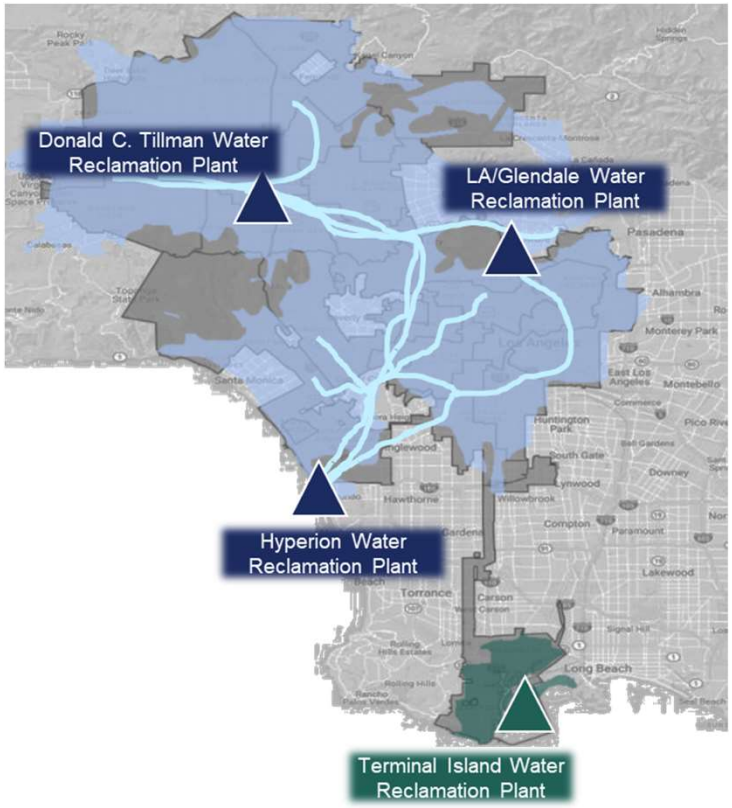
environment LASANITATION
CITY OF LOS ANGELES
zero waste • zero wasted water
100% WATER RECYCLING

Current Recycled Water Production

City of LA Service Area

- Population Served: 4,000,000
- Area served: 600 Square Miles
- Sewer System Length: 6,700 Miles

Hyperion WRP	260	71
Los Angeles-Glendale WRP	18	15
Donald C. Tillman WRP	43	32
Terminal Island WRP	12	12
	333	130

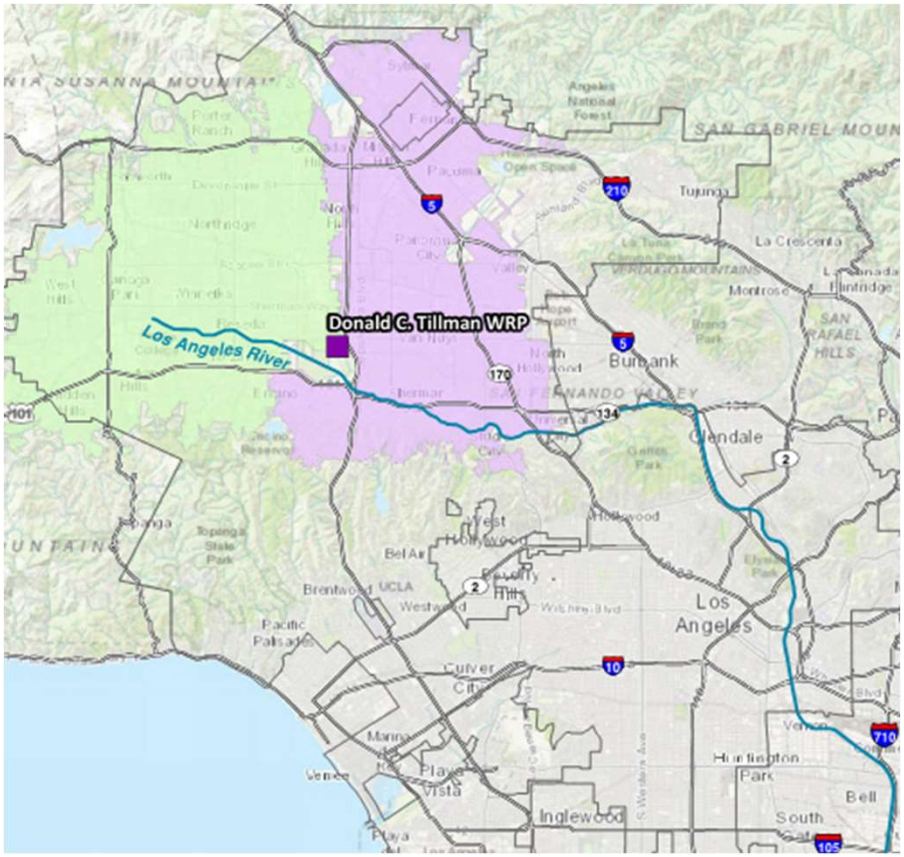


Donald C. Tillman and Los Angeles Glendale Water Reclamation Plant

Recycled Water Projects

Ryan Thiha, Sr. Environmental Engineer, LASAN-WESD

Donald C. Tillman Water Reclamation Plant (DCTWRP)



Los Angeles Groundwater Replenishment (LAGWR) Program

Overview

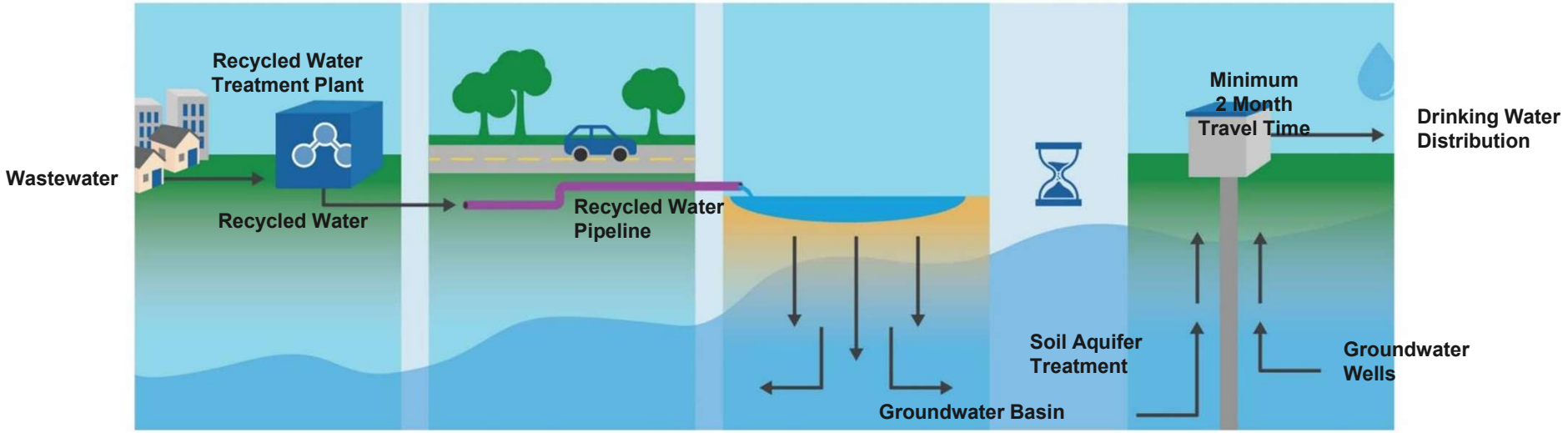
LAGWR Program

Overview

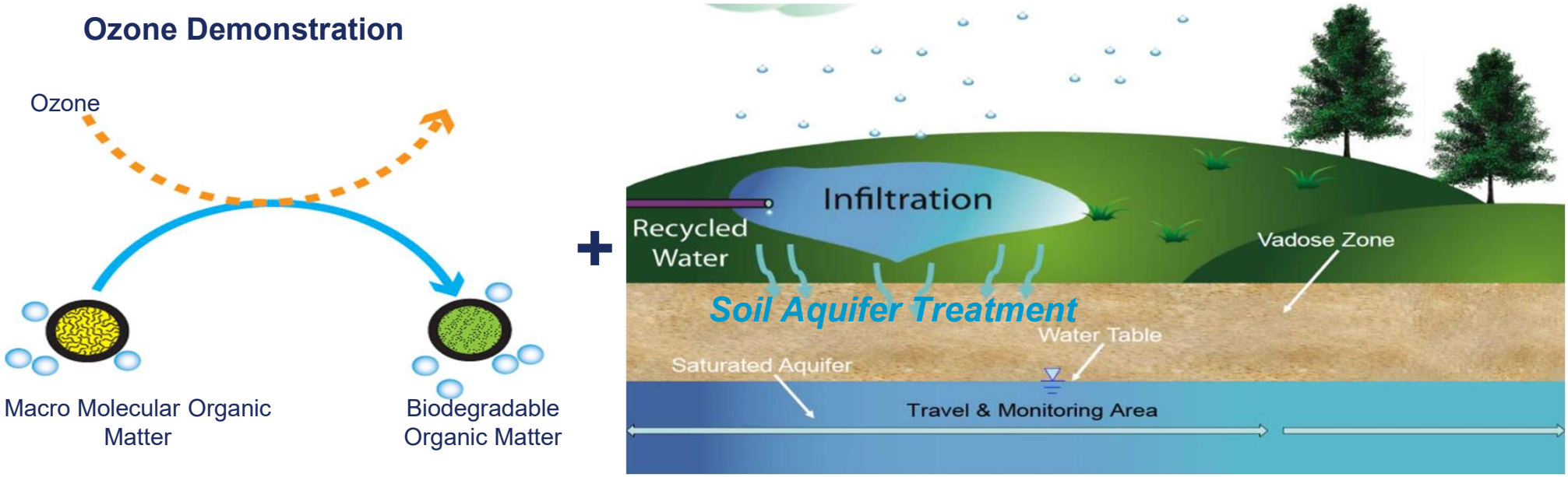
- Ozone Demonstration Project
  - 10 mgd
  - Spreading at Hansen Spreading Grounds
  - 2019-2024 (In-progress)
- Full-scale AWPF
  - 19 mgd
  - Full Advanced Treatment
  - Completion by 2026

LAGWR Program

Overview

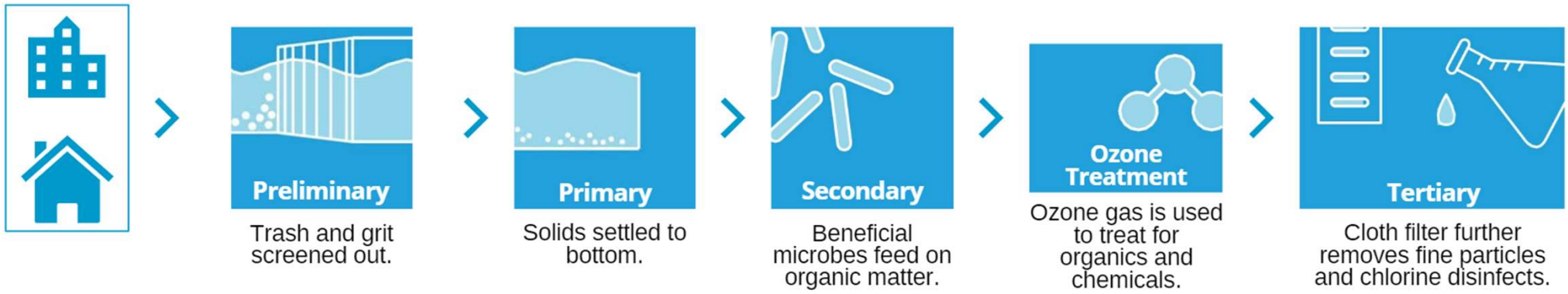


Initial Phase – Ozone Demonstration Project



LAGWR Program

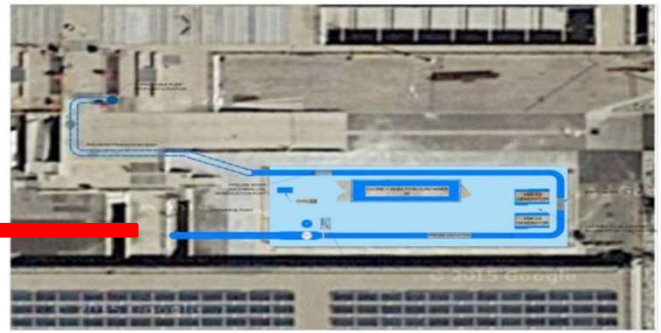
Initial Phase – Ozone Demonstration Project



LAGWR Program

Initial Phase – Ozone Demonstration Project

- Construction completed
- Start-up: Feb 2022
- Operational Testing: Mar - Aug 2022



LAGWR Program

Initial Phase – Ozone Demonstration Project

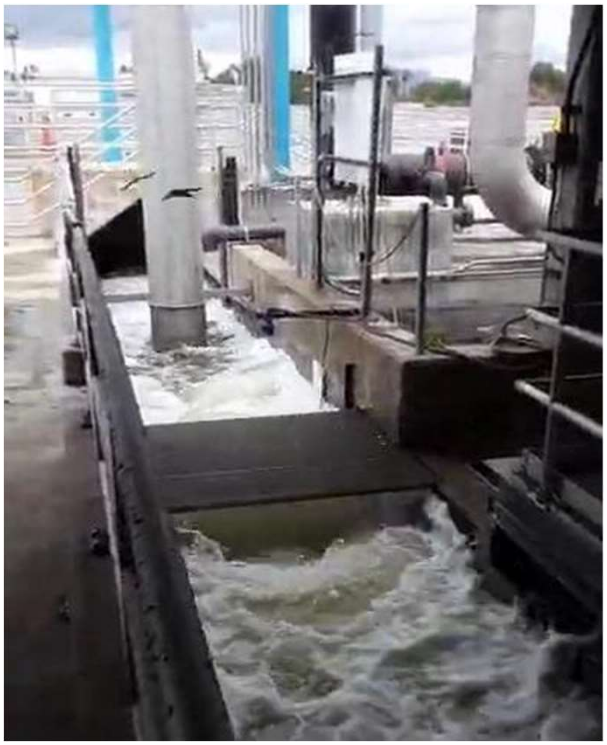
2019

2020

2021

LAGWR Program

Initial Phase – Ozone Demonstration Project



Project Startup Phase

DCTWRP

Advanced Water Purification Facility (AWPF)

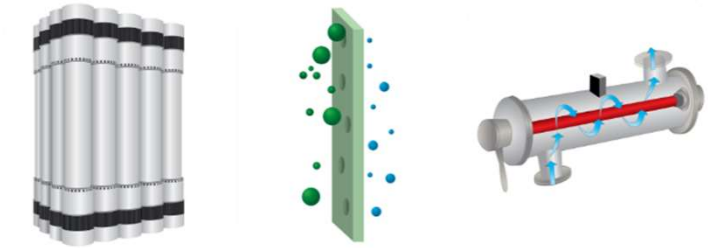
- The AWPF will be located next to the LADWP Balboa Pump Station at DCTWRP.
- Max ~19 MGD Facility
- Full Advanced Treatment

DCTWRP AWPF

Advanced Treatment Options

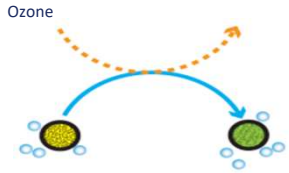
Full Advanced Treatment

Microfiltration

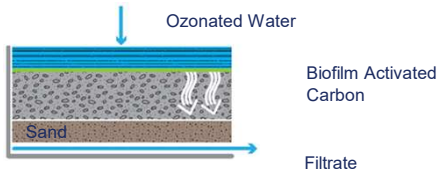


Alternative Advanced Treatment

Ozone



Biologically Activated Carbon



PFASs Compliance

Granular Activated Carbon

Ion Exchange

Other Selective Technologies

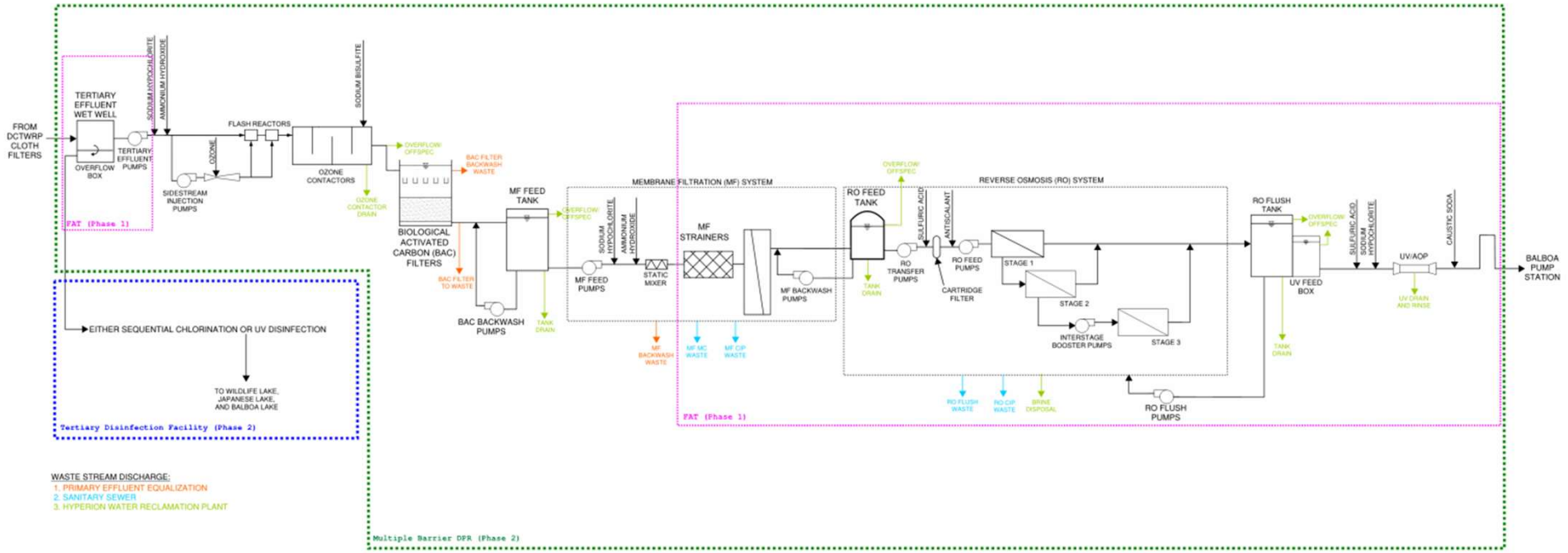
DCTWRP AWPF

Overview

- Full Advanced Treatment ($271M)
  - MF RO UV/AOP
- Modular design with 4 to 5 MGD increment
- 19 MGD with recirculated flow from Japanese Garden
- Improvements to existing systems required ($100M)
  - Rehabilitate inlet gates to maximize flow
  - Equalize diurnal flow by adding primary basins with foul air treatment
  - Rehabilitate and install new screw pumps
  - Install new power substation for AWPF

DCTWRP AWPF

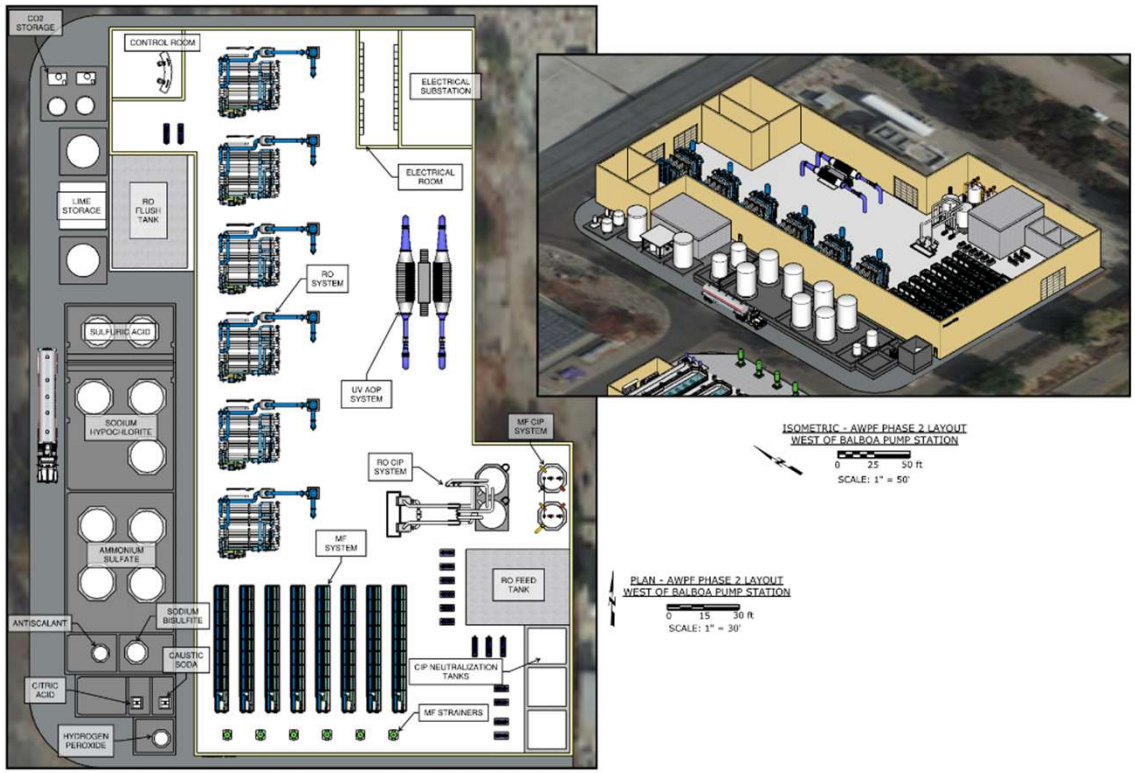
Treatment Process



DCT DC & AWPF INDICATIVE PROCESS FLOW DIAGRAM

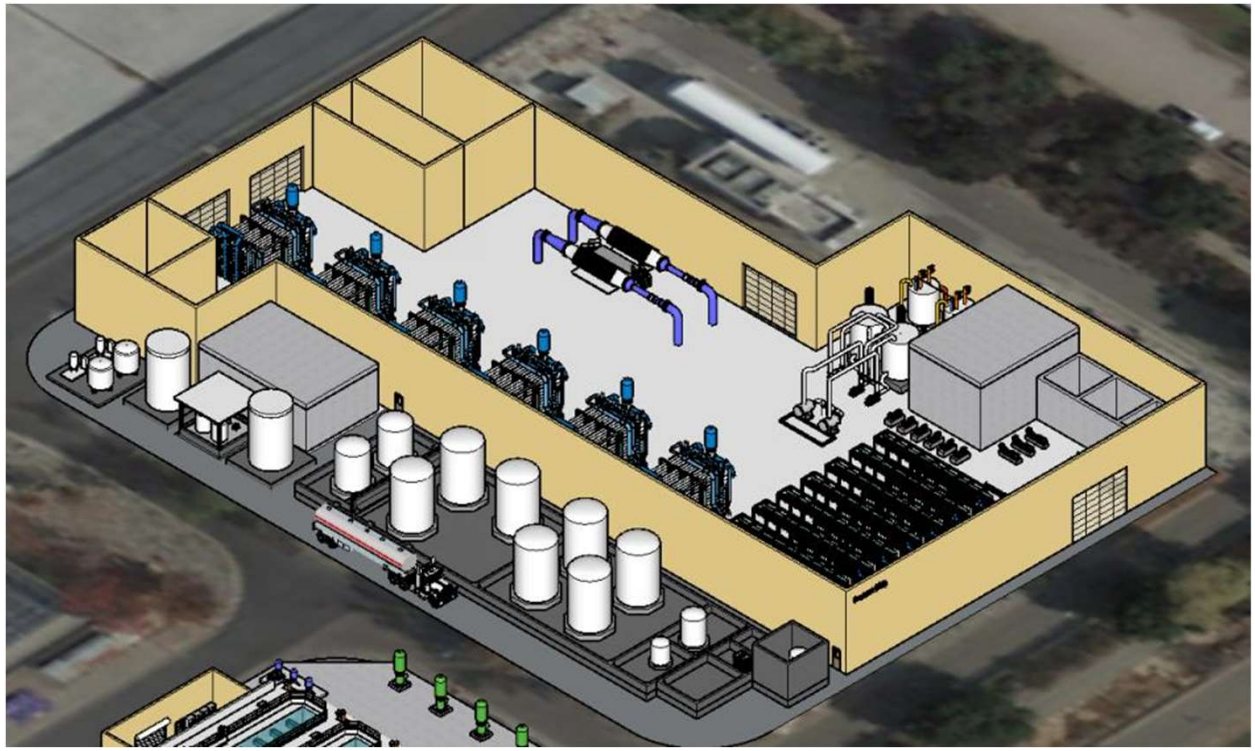
DCTWRP AWPF

Site Overview



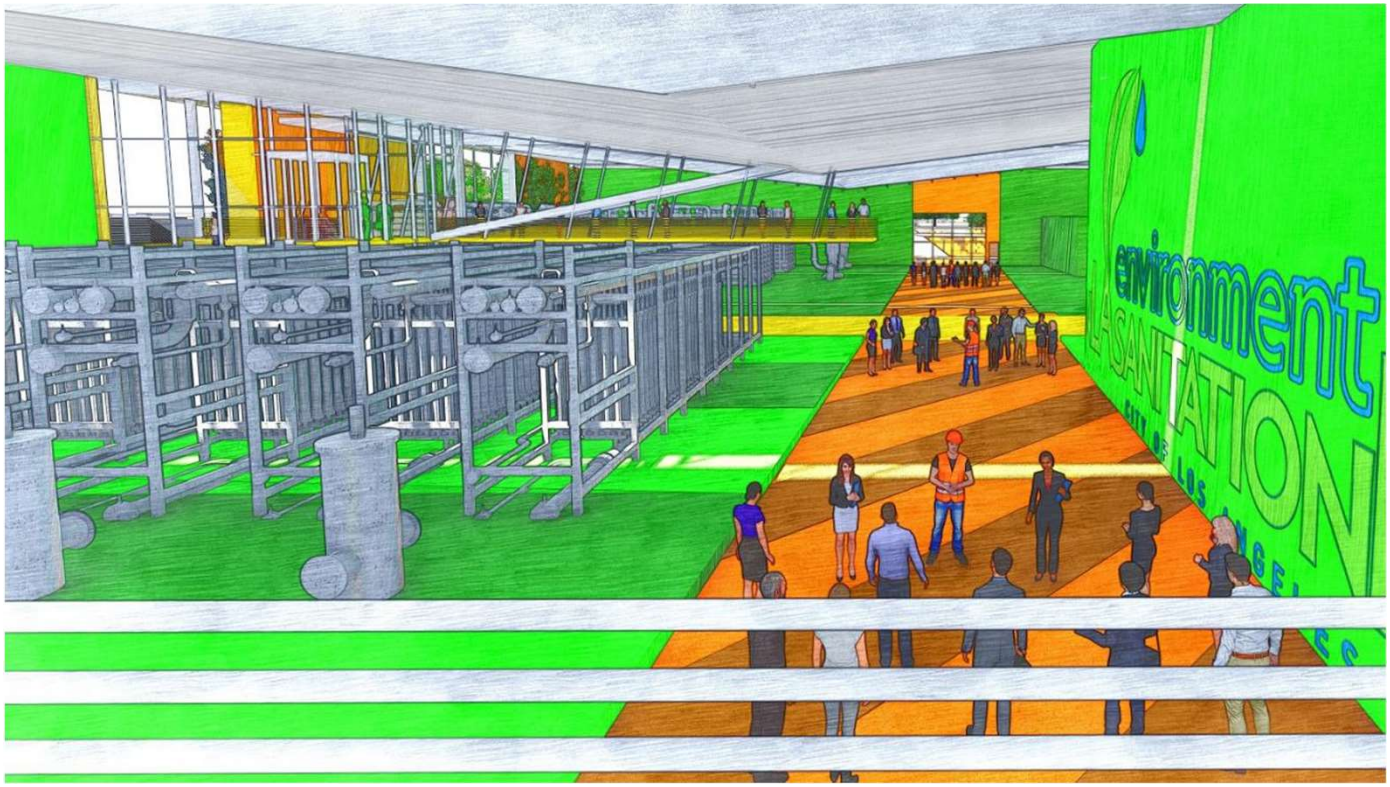
DCTWRP AWPF

Site Overview



DCTWRP AWPF

Project Rendering



DCTWRP AWPF

Project Delivery Method

- Progressive Design Build through Request for Proposals
  - Award Contract and progress towards 70% design
  - Acquire necessary permits (DDW, LARWQCB)
  - Negotiate construction price, complete design
  - Amend contract and complete construction
- Pre-qualify equipment vendors
  - Test and pre-qualify MF, RO ,UV suppliers
  - Negotiate price
- Financing
  - Wastewater fees, USEPA loans, State loans
  - 30-40 year project life and payment plan

Terminal Island Water Reclamation Plant

Recycled Water Projects

Lance Thibodeaux, Environmental Engineer, LASAN-TIWRD

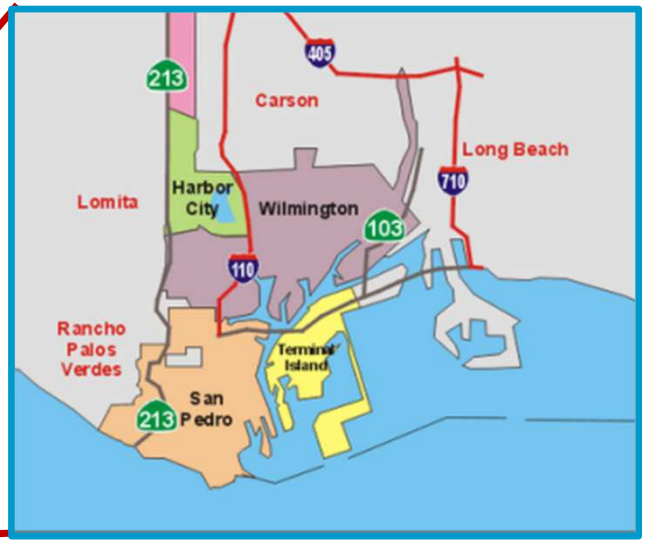
Terminal Island Water Reclamation Plant

- Located 20 miles south of downtown Los Angeles in San Pedro
- Treats wastewater from over 130,000 people and 100 businesses in the industrialized Los Angeles Harbor area
- Processes an average of 14 million gallons of wastewater per day (full tertiary), but our design capacity is 30 mgd
- AWPF can produce 12 mgd and includes MF, RO, AOP

Terminal Island Water Reclamation Plant (TIWRP)

Who Do We Serve?

We serve the areas of Wilmington, San Pedro, Harbor City, and the Los Angeles Harbor



TIWRP

Challenges

- Regional Water Quality Control Board requires cease discharge of effluent into the LA Harbor by Dec 31, 2024
  - 100% of Plant flow must be reused
  - Requires customers for all of AWPF water
- AWPF on-line reliability and resiliency
  - Maintain a reliable power supply
  - Ability to divert non-compliant flow during equipment startup

TIWRP

Reliability and Resiliency Efforts

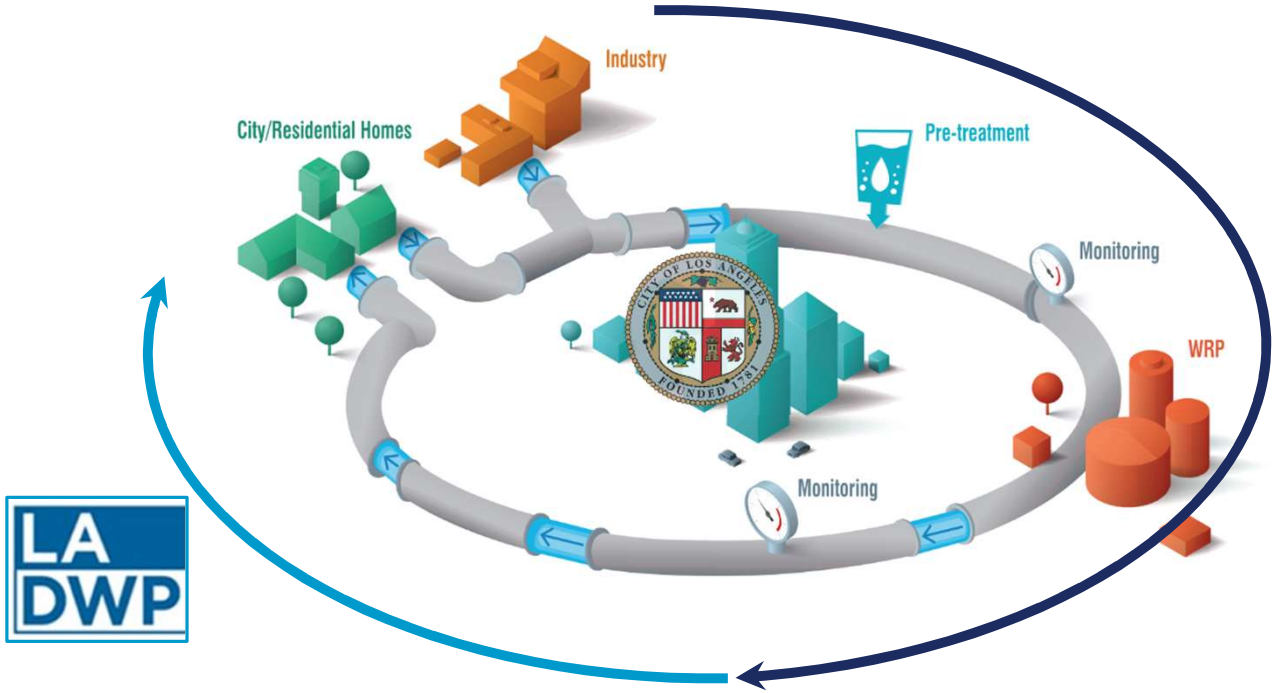
- RWQCB requires cease discharge of tertiary effluent into the LA Harbor by Dec 31, 2024
  - 100% of Plant flow must be advanced treated
  - To satisfy requirement, coordination with DWP – Purveyor of drinking water and drinking quality water – is required to finalize new customer agreements and distribution system expansion
- Phase 1 chemical piping replacement
  - Phase 1 piping has been in service since 2000
  - Many spot repairs have been made over the years
- Phase 1 MF trains replacement
  - MF Trains A and B were installed in 2000
  - Increased maintenance due to age
- AOP Effluent Recirculation System
  - Reduce time offline at AOP startup and stabilization
- RO Permeate Ammonia Injection System
  - Bromate control
- Product Water Pumps and Potable Makeup Water Backup Power

Hyperion Water Reclamation Plant

Hyperion 2035

Charles Senaya, Sr. Environmental Engineer, LASAN-WRID

The Road to Zero Wasted Water

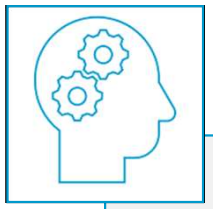


Hyperion 2035

Overview

Goal:

Transform Hyperion from full secondary treatment plant to a 100% water recycling facility by 2035 for potable reuse applications



How:

Convert the existing secondary treatment process to advanced treatment

Target:

Produce up to 217 mgd of recycled water

Thank you!

lacitysan.org/recycledwater

sanrecycledwater@lacity.org

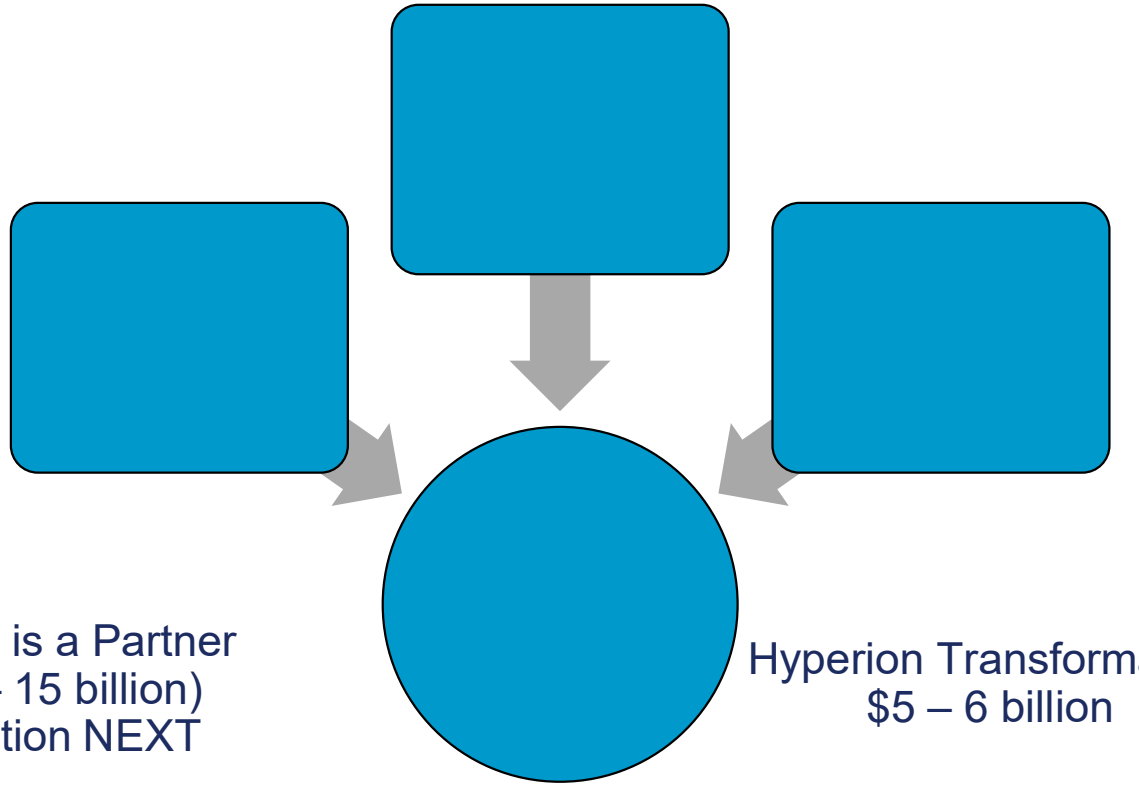
@LACITYSAN

Hyperion 2035 and 100% Reuse

Farzaneh Shabani, Lead Engineer, Carollo Engineers

environment LA SANITATION
CITY OF LOS ANGELES
zero waste • zero wasted water
100% WATER RECYCLING

Hyperion 2035 Has Three Major Execution Elements Underway



LADWP is a Partner
($12 – 15 billion)
Operation NEXT

Hyperion Transformation
$5 – 6 billion

Hyperion 2035

Accomplished to Date

- Prior Major Studies
  - Spatial Feasibility
  - Secondary Process Analysis
  - Distributed Flow Equalization
- Designs and Construction
  - Hyperion AWPF
  - Hyperion MBR Pilot Facility

MBR Pilot Facility Bioreactor

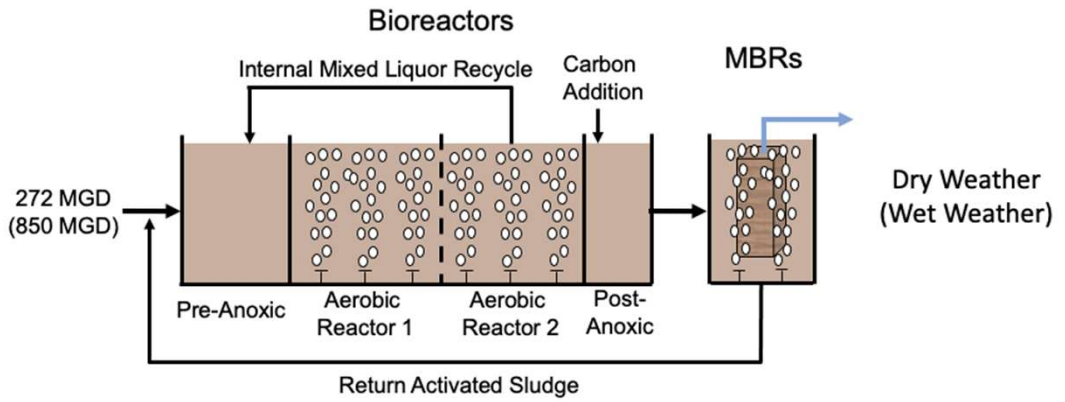
MBR Pilot Facility Membrane Tanks

Hyperion AWPF

Hyperion 2035

Flows and Processes

- Design Flows
  - ADDWF – 272 MGD
  - Max Month Flow – 318 MGD
  - Low Flow – 92 MGD
  - Peak Flow – 850 MGD
- Processes
  - Secondary Treatment – All MBR
  - AWT – Ozone, BAC, MF, RO, UVAOP

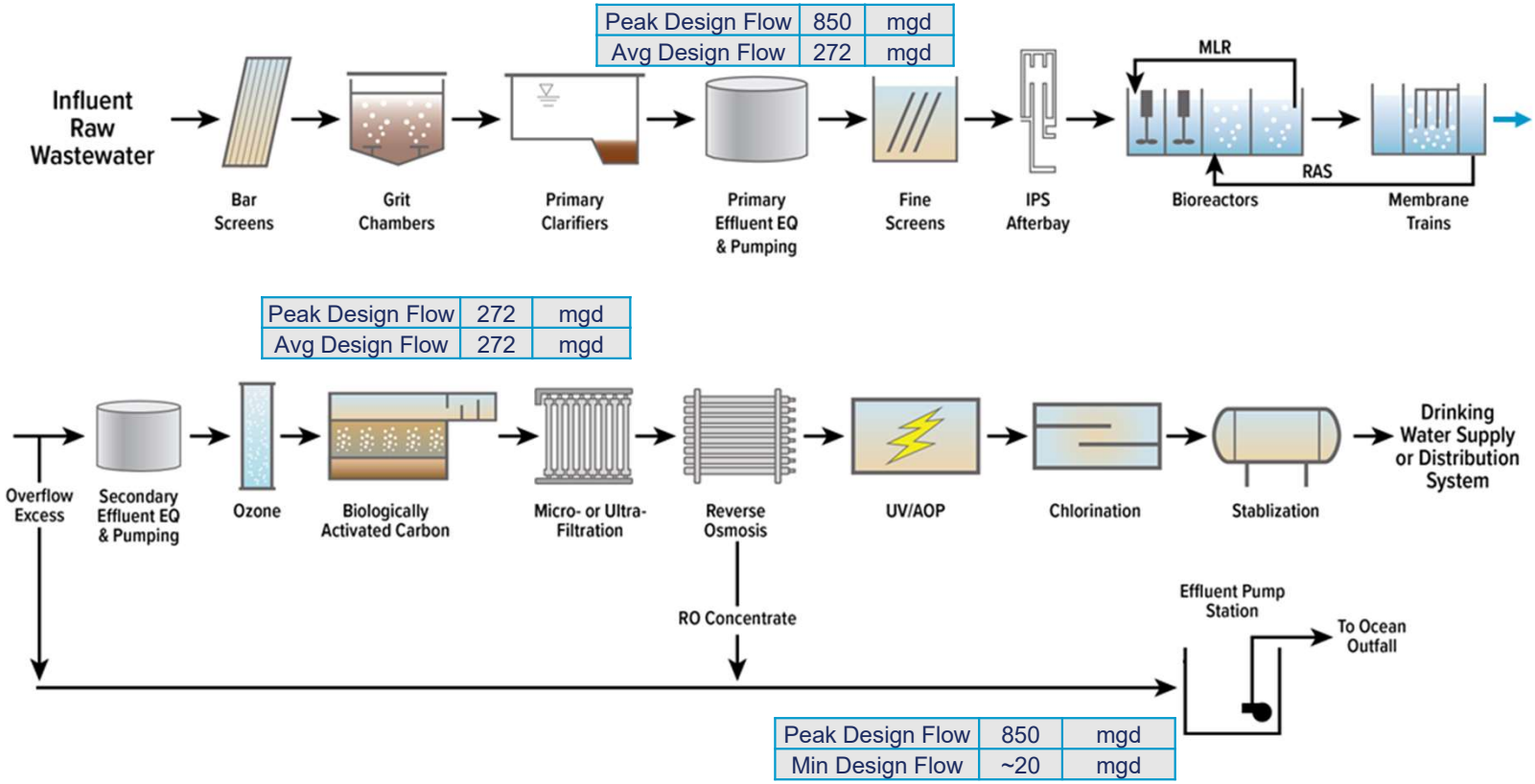


Peak Flow Determines Membrane Sizing
Reactor Volume Permits Lower MLSS Operations

- MLSS at 4,000 – 6,000 mg/L versus 8,000 – 10,000 mg/L
- Reduces RAS from 400% to 200% (pumping/conveyance)
- Improves O2 transfer
- Increased membrane life cycle

Hyperion 2035

Overall Liquid Treatment Flow Schematic



Hyperion 2035

Program Implementation Plan Development

INFORMING TECHNICAL STUDIES

1. Outfall Management
2. Secondary Process Integration
3. Provisions for DPR Addition
4. RO Concentrate Management
5. Sidestream Treatment
6. Secondary Clarifier Performance Enhancement
7. Site Plan (Treatment and Conveyance)
8. Plant Hydraulics/Major Conveyance
9. CFD Modeling
10. Secondary Process 3D Model
11. Phasing-Packaging- Scheduling

ENABLING PROJECTS SCOPING

1. Preliminary Conveyance
2. Power Supply Management
3. Critical Support Utilities
4. Employee & Contractor Parking
5. HPOAS Conversion to Air
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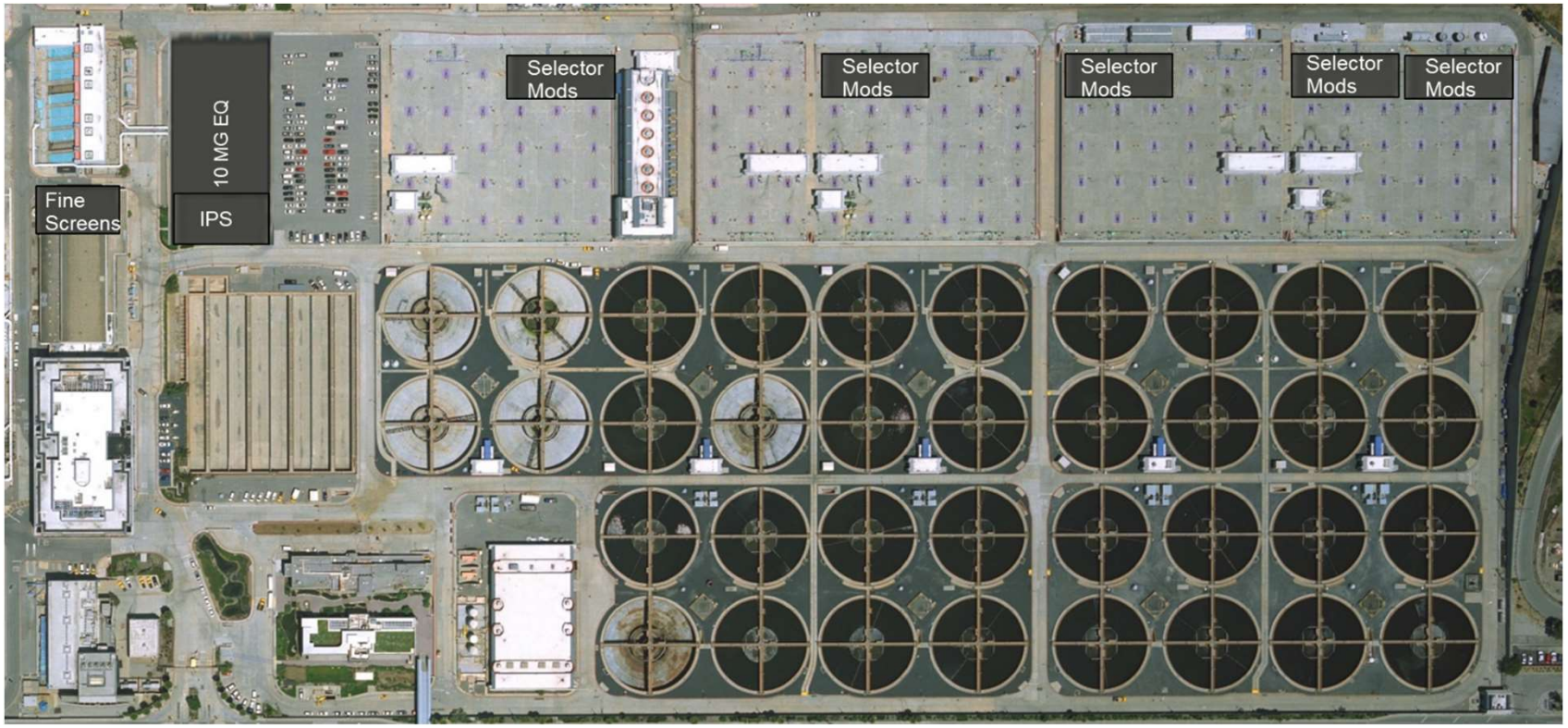
7. Secondary Clarifier Unification and Interim Improvements
8. Product Water Distribution

PROGRAM IMPLEMENTATION PLAN

1. Consolidate Studies and Scoping
2. Baseline Improvements Concepts
3. Design Criteria
4. Project Cost
5. Report
6. Roadmap to Implementation

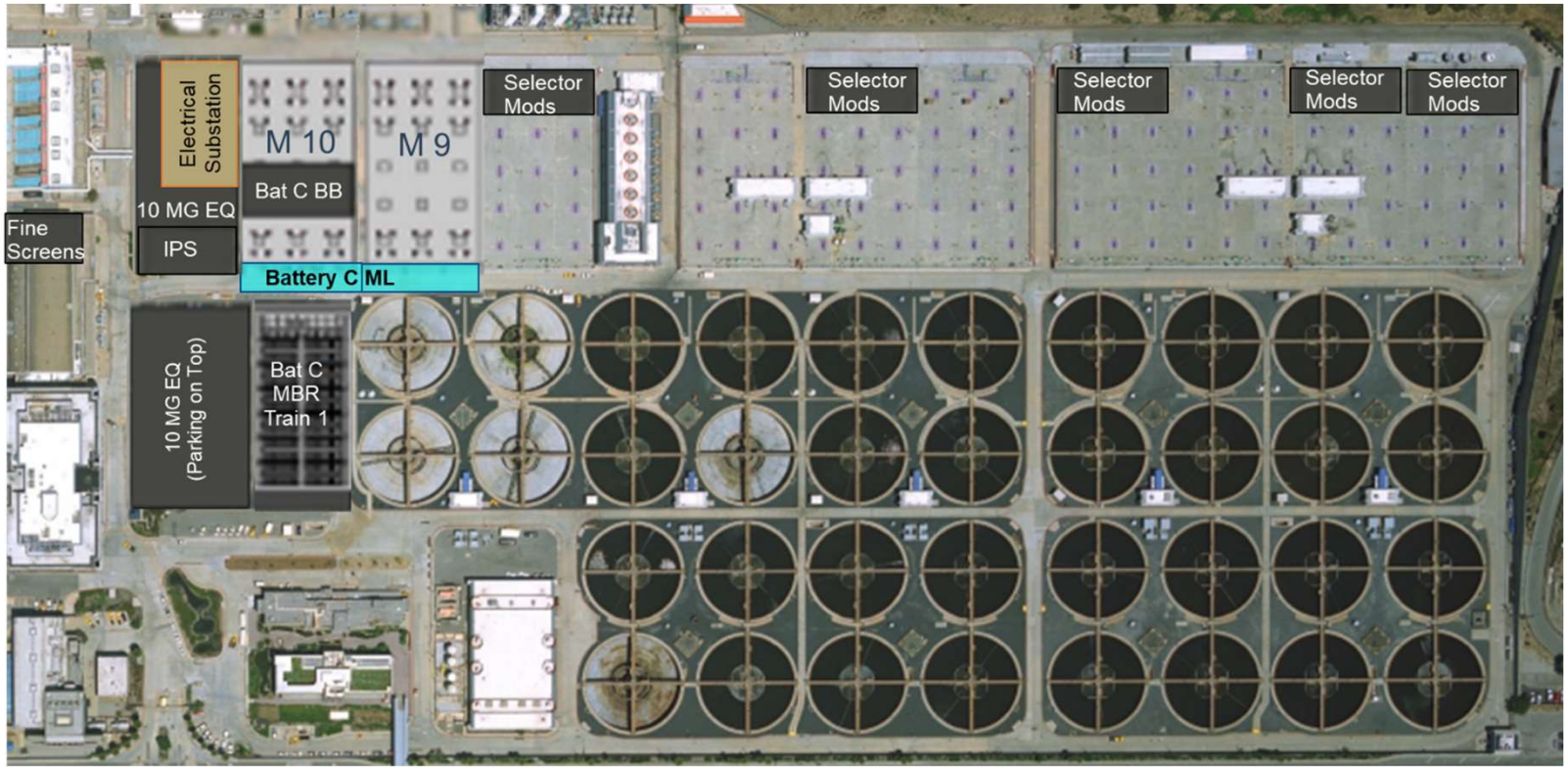
Hyperion 2035

Phase 0A – Early Out Packages – IPS, Fine Screens, EQ, Selectors, Sidestream ~ Year 2028



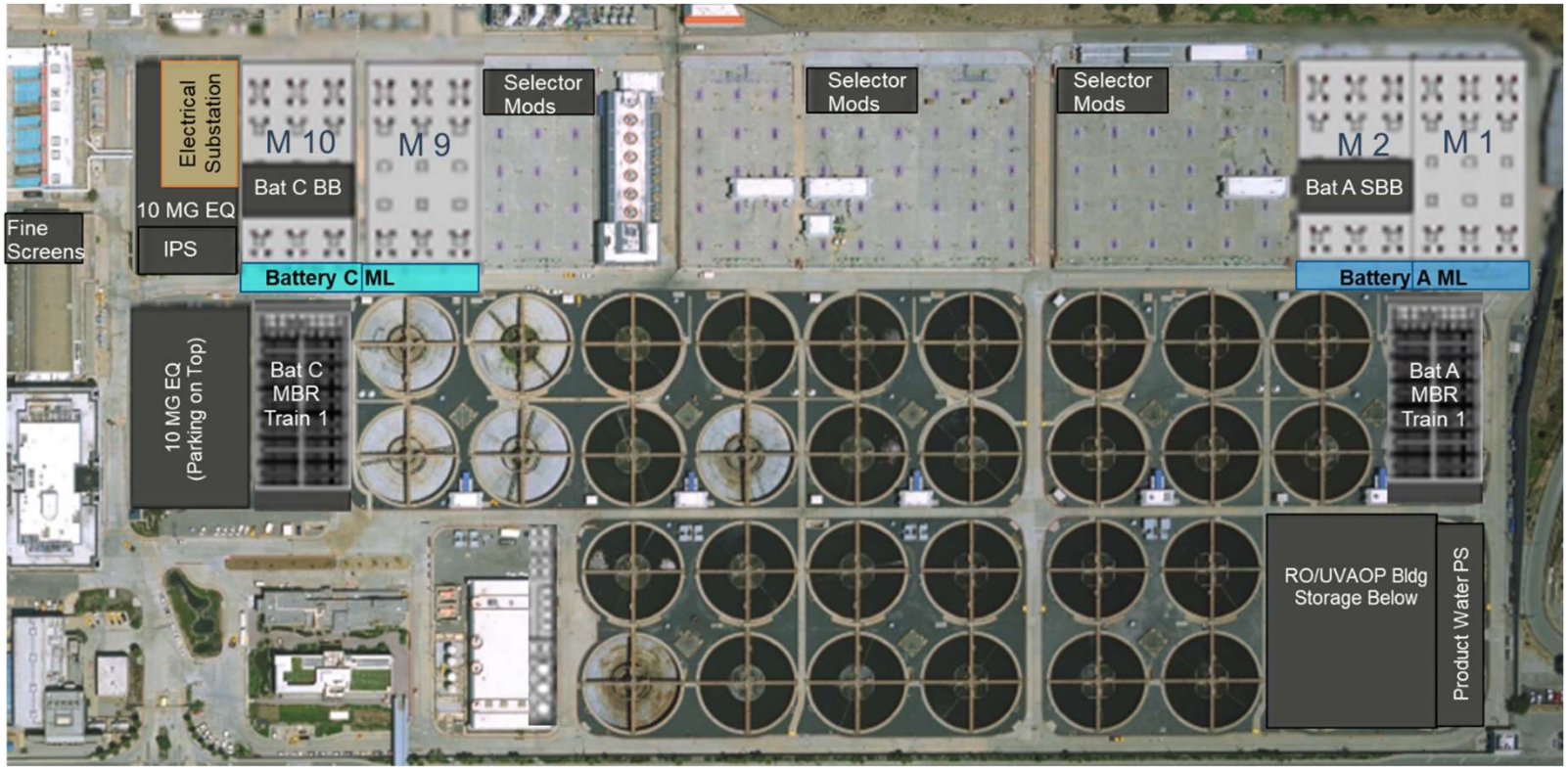
Hyperion 2035

Phase 0B – Enabling Project for Wet Weather Management and Construction Phasing ~ Year 2030



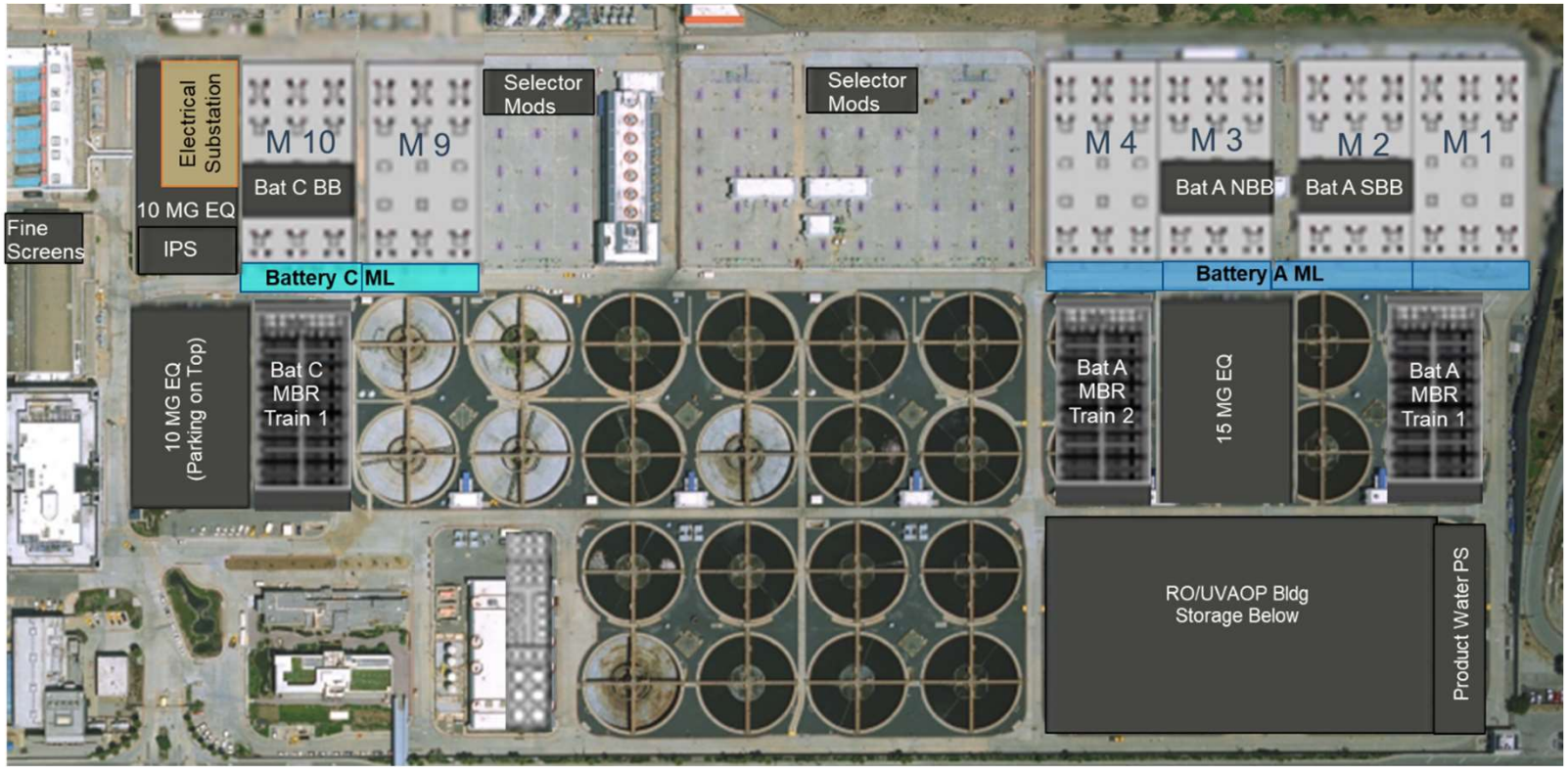
Hyperion 2035

Phase 1A ~ 60 mgd IPR ~ Year 2032



Hyperion 2035

Phase 1B ~ 139 mgd IPR ~ Year 2034



Hyperion 2035

Phase 2A ~ 185 mgd IPR ~ Year 2036

Hyperion 2035

Phase 2B ~ 231 mgd DPR ~ Year 2039

Thank you!

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sanrecycledwater@lacity.org

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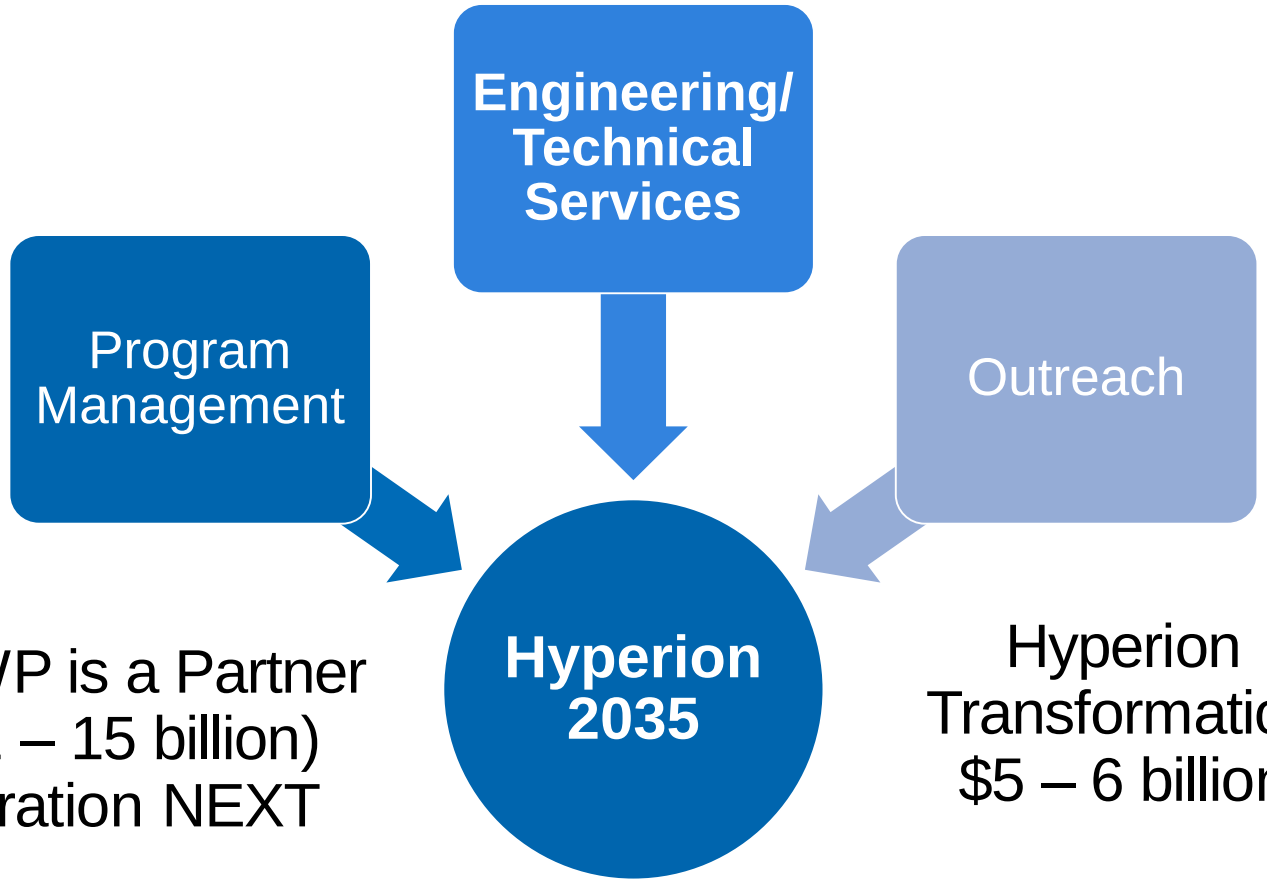
Hyperion 2035 Program

Hyperion 2035 Has Three Major Execution Elements Underway

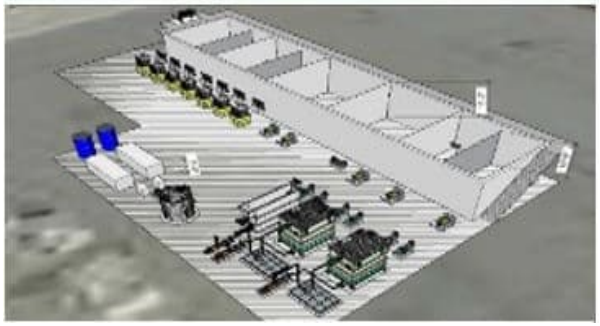


LADWP is a Partner
($12 – 15 billion)
Operation NEXT

Hyperion
Transformation
$5 – 6 billion

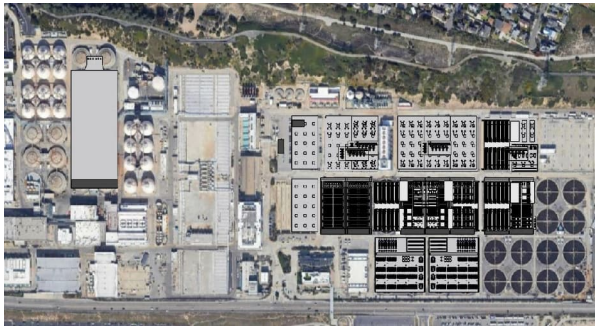
Path to Hyperion 2035 Program Involves Extensive Planning and Key Projects

Hyperion MBR Pilot Facility



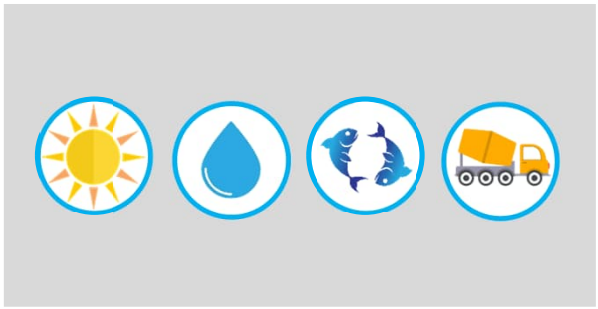
Hyperion AWPF Project

Informing Studies

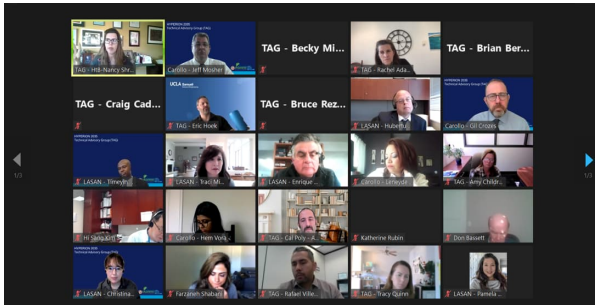


Program Planning Foundation

CEQA and Permitting



Outreach



Hyperion 2035 - Accomplished to Date

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  - Hyperion MBR Pilot Facility

MBR Pilot Facility Membrane Tanks

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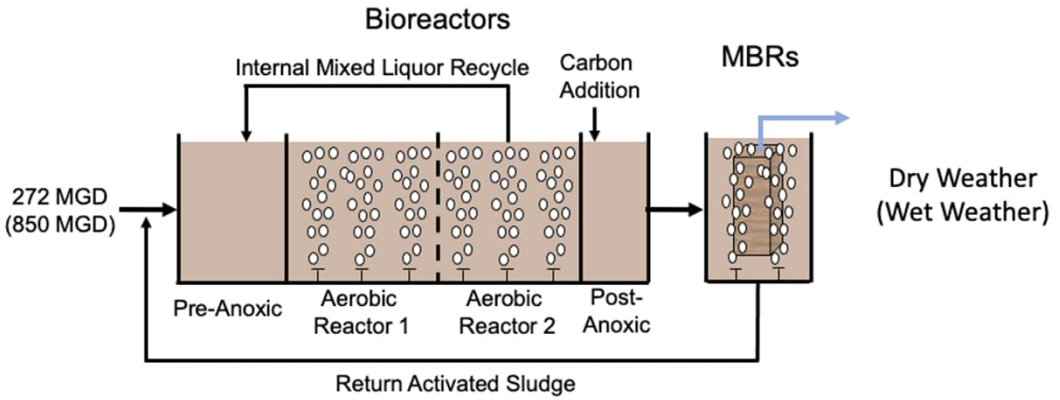
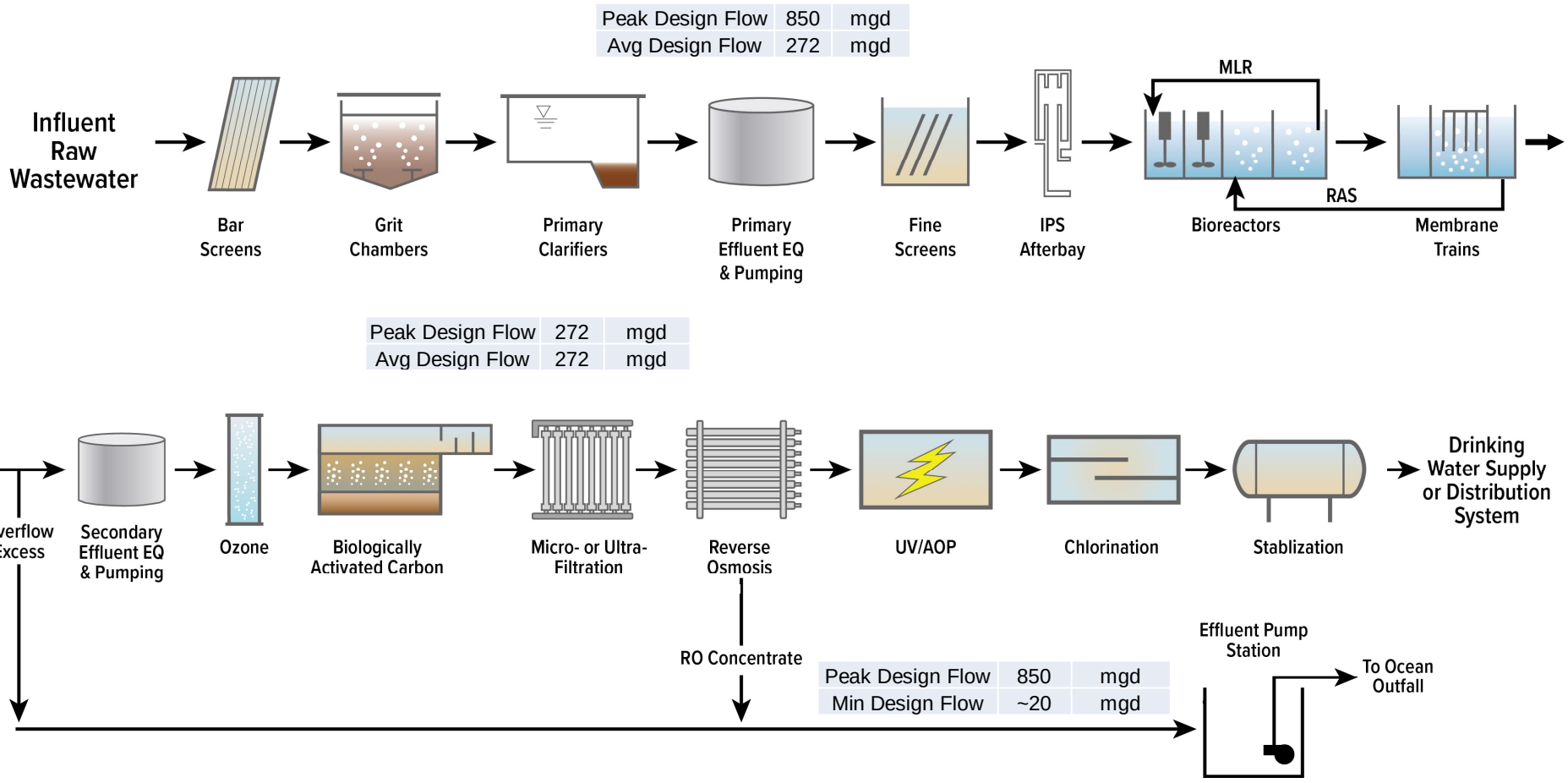


Peak Flow Determines Membrane Sizing

Overall Liquid Treatment Flow Schematic



Development of Program Implementation Plan

INFORMING TECHNICAL STUDIES

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PROGRAM IMPLEMENTATION PLAN

- Consolidate Studies and Scoping
- Baseline Improvements Concepts
- Design Criteria
- Project Cost
- Report
- Roadmap to Implementation

Final Phase (Buildout) ~ 231 mgd DPR

A cross-regional, cross-laboratory investigation of viral pathogens and surrogates in wastewater for non-potable reuse

LA Water Reuse
June 13, 2022

Sunny Jiang, Katrine Whiteson, Diego Rosso, Helena Solo-Gabriele, Samendra P. Sherchan, Heather N Bischel, Tao Yan, Ramesh Goel

University of California, Irvine, Miami University; Tulane/Morgan State University; University of California, Davis; University of Hawaii, Manoa; University of Utah

Background

- U.S. EPA (EPA-G2021-STAR-A1)
- Funded $6,039,482 to five institutions
- Development of standardized approaches to identify, characterize, and validate suitable viral surrogates to indicate viral safety of municipal wastewater reuse
  - What are the right surrogates?
  - How to monitor?
  - How to translate into water safety?

Our team

- Lead Institution: UC Irvine

Sunny Jiang

Diego Rosso

Katrine Whiteson

- Participating Institutions:

Miami U, Helena Solo-Gabriele

Tulane/Morgan State U, Sam Sherchan

UC Davis, Heather Bischel

U. Hawaii Manoa, Tao Yan

U. Utah, Ramesh Goel


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UCI
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Morgan State U

Project Objectives

- [x] 1. identify a suite of viral pathogens and surrogates, and their detection methods that may best serve as the indication of viral risk in water reuse;
- [x] 2. compare viral pathogen and surrogate detection methods in wastewater by different labs in order to develop a set of Standard Operational Protocols (SOP) for utilities;
- [x] 3. apply the SOPs to wastewater samples collected from WWTPs across the U.S., from Miami to Hawaii, at different seasons and treatment processes to identify the best markers for viral risk in water reuse;
- [ ] 4. develop Artificial Neural Network (ANN) models to predict infectious viruses in the effluent using pathogen/surrogate and treatment conditions; and
- [ ] 5. integrate the outcomes from the cross-regional and cross-laboratory study into quantitative microbial risk assessment (QMRA) models to estimate health risk from exposure to the water for non-potable reuse.

water

MDPI

Review

Integrating Virus Monitoring Strategies for Safe Non-Potable Water Reuse

Sunny C. Jiang [1,2], Heather N. Bischel [3], Ramesh Goel [4], Diego Rosso [1,2], Samendra P. Sherchan [5,6], Katrine L. Whiteson [7], Tao Yan [8] and Helena M. Solo-Gabriele [9,*]

- Reviewing the state of technology of water reclamation processes for fit for purpose water reuse
- Reviewing methods for virus concentration and quantification in wastewater and reclaimed water
- Comparing culture versus molecular detection
- Identifying viruses and viral surrogates in wastewater for reuse
- Metagenomic contribution to viral monitoring
- Non-viral indicators to indicate viral quality of water
- Modeling as a tool for viral safety assurance

Water **2022**, *14*(8), 1187; https://doi.org/10.3390/w14081187

Day I – May 12, 2022
Viral Surrogate Monitoring for Water Reuse

AN EVENING WITH WATER UTILITIES

UCI WEX Center
Research at the Water-Energy Nexus

AECOM

Brown AND Caldwell

Stantec

Trussell
CREATING THE FUTURE OF WATER

Discussion I – Sam & Sunny

- Any experience of monitoring viruses?
- If not, what surrogates are monitored instead?

- What are the perceived risk of viruses in water reuse?
- Are there any added value of monitoring virus, why?
- If not, what should be monitored?

Discussion II – Heather & Diego

- Are there any capacity to monitor virus?
- If yes, please elaborate.
- If not, what would be the estimated resource cost?;

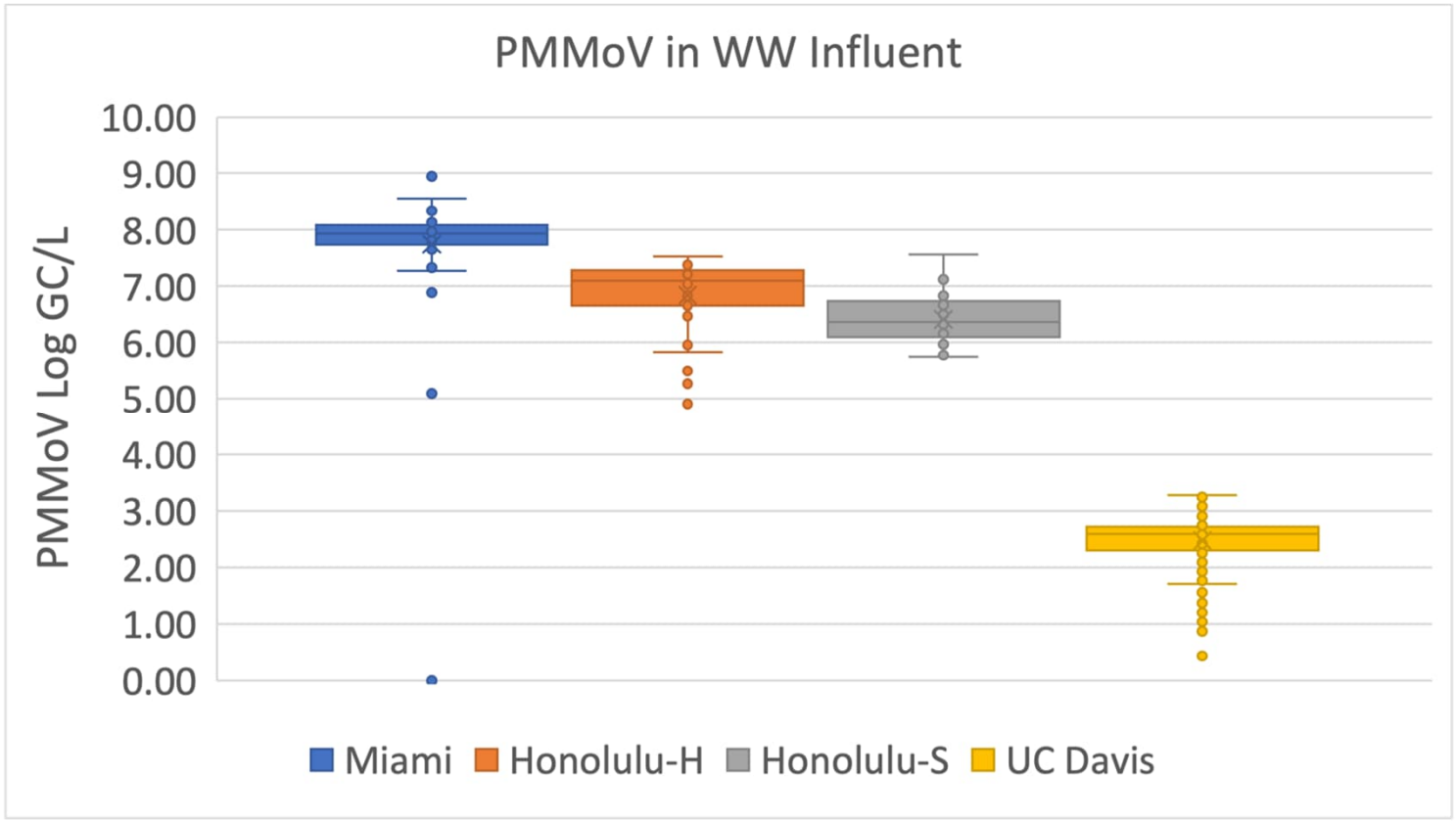
- What are the perceived opportunities and challenges in this area?

Day II – May 13, 2022 Viral Surrogate Monitoring for Water Reuse

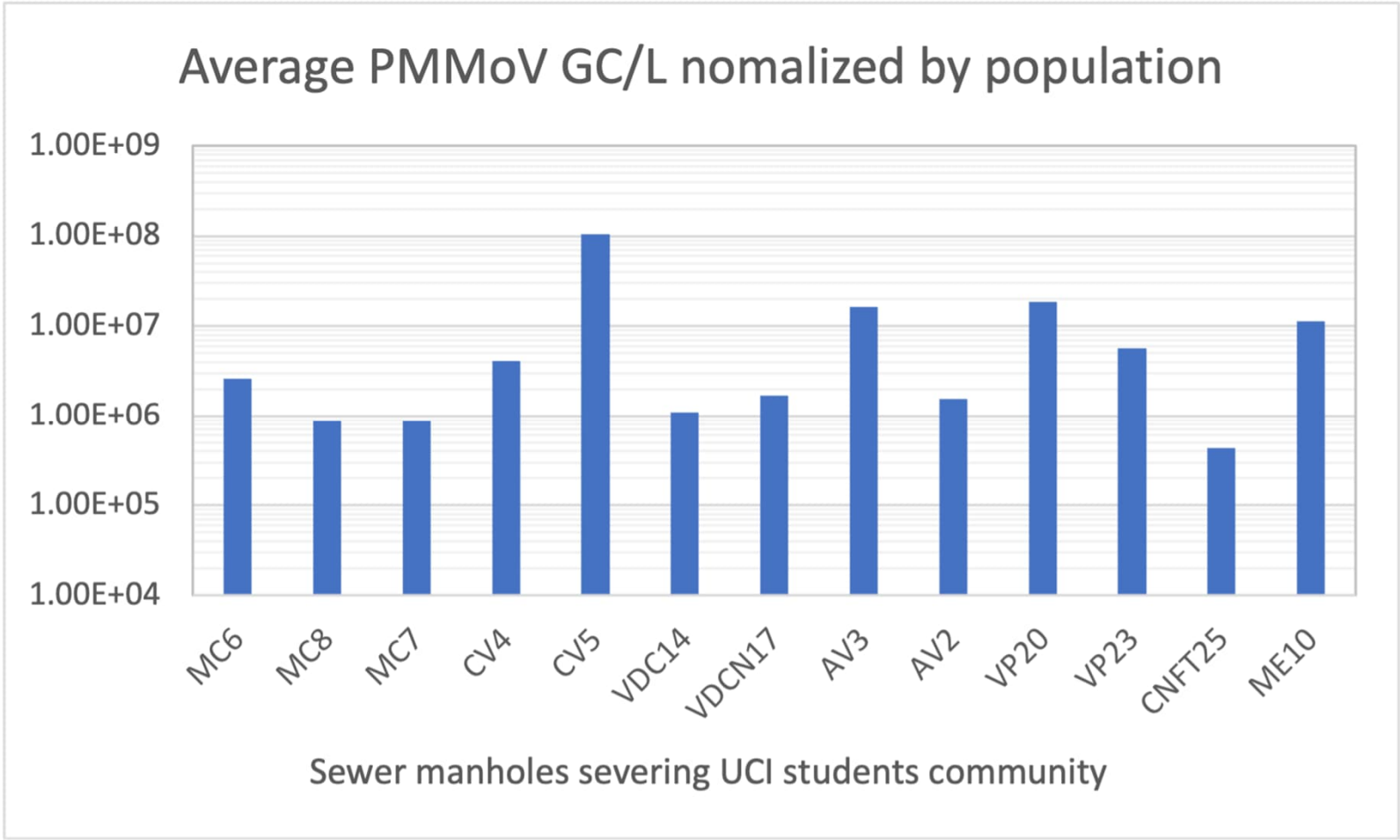
Project TEAM Meeting

Team Meeting Tasks

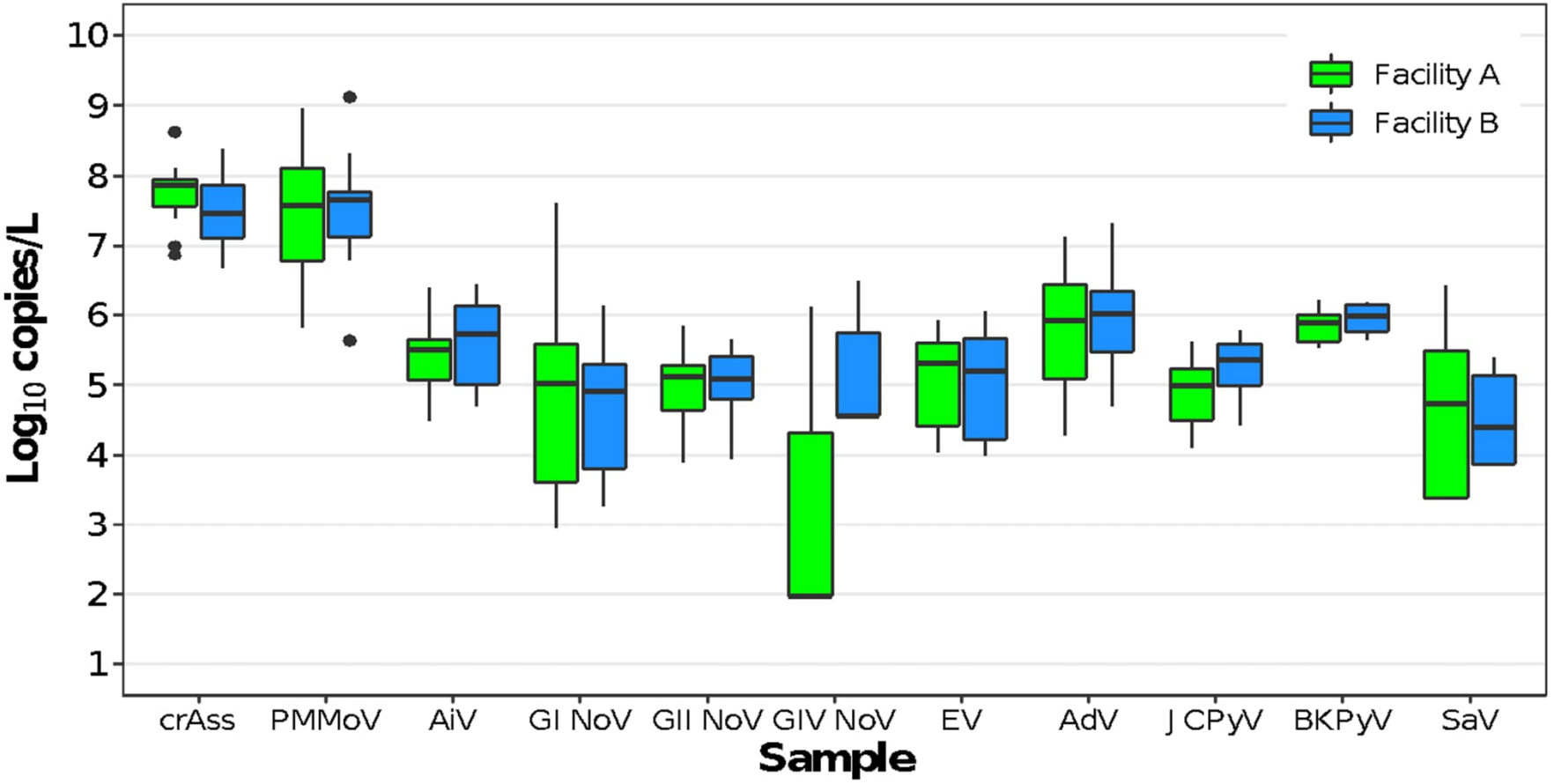
- List of viral surrogates
- List of treatment plants
- Sampling frequency
- List of water quality parameters to be collected
- Viral surrogates testing matrix
- Sample collection and sharing matrix



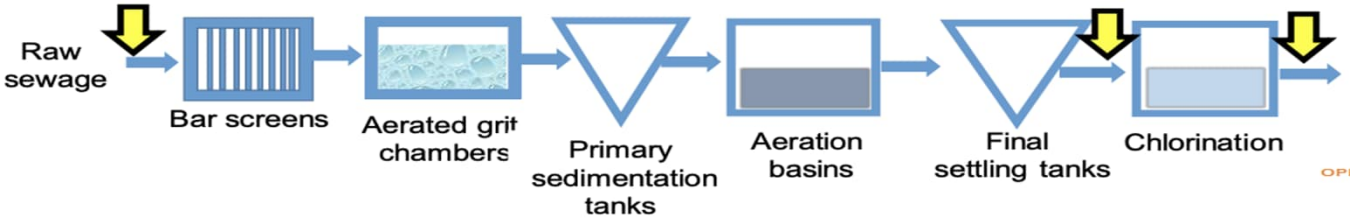
Significant variability of PMMoV concentrations in different wastewater treatment plants. Lowest concentration were observed in a small WWTP serving UC Davis campus



High concentration of PMMoV are found in sewer manholes serving students community on UCI campus. Normalizing PMMoV concentration by # of residents in each community suggests the variability among each residential community likely due to water use patterns (food processing water vs. toilet water)



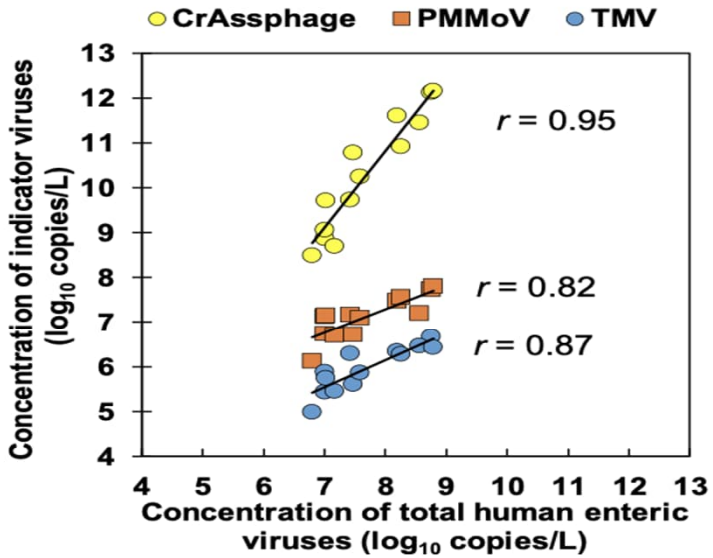
Viral load in the inlet of two full-scale WWTPs serving ~500,000 customers



SCIENTIFIC REPORTS
nature research

OPEN **Applicability of crAssphage, pepper mild mottle virus, and tobacco mosaic virus as indicators of reduction of enteric viruses during wastewater treatment**

Sarmila Tandukar[1], Samendra P. Sherchan[2] & Eiji Haramoto[3]*



Virus reductions

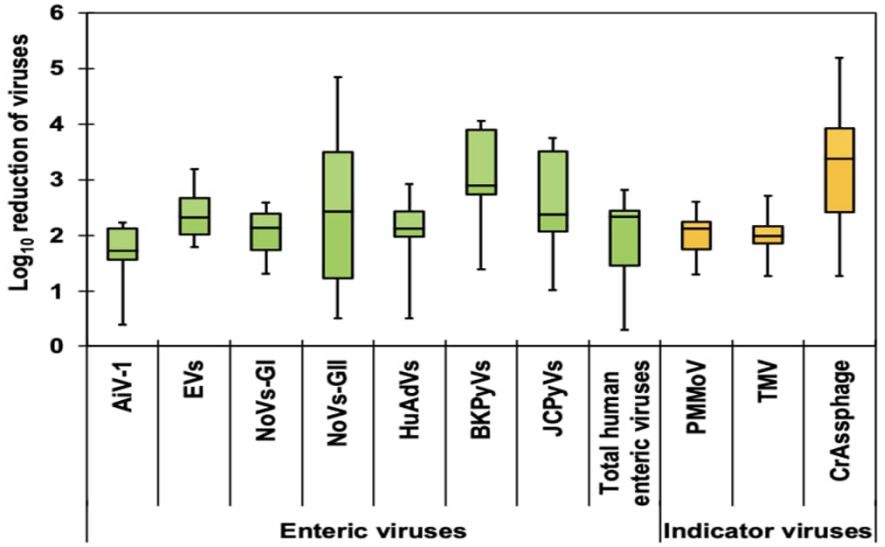
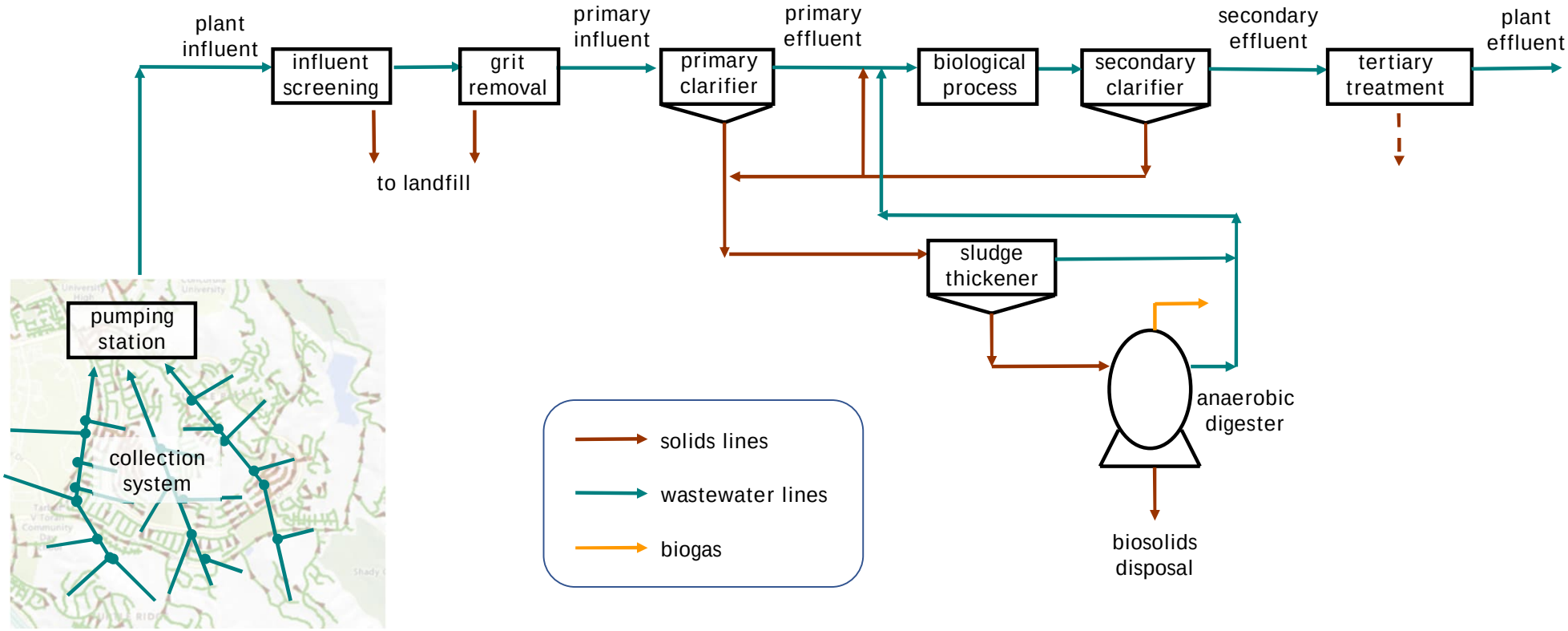


Fig 2 Virus concentrations in raw sewage

Sampling Domain



Treatment Facilities Selection

- Selection criteria:
  - Geographic distribution
  - Collection system configuration (combined/separate sewers)
  - Service area (large/medium/small)
  - Process configuration
    - Municipal secondary plants
    - Atmospheric vs. pure-oxygen processes
    - Coastal vs. inland plants
- Sample type: 24h composites

Treatment Plants: Short List

Plant	Region	Layout	Size
WSSC	DC	ASP	medium
OCSD P1	Southern CA	ASP L-E/MLE, TF	x large
East Honolulu	Hawaii	ASP (high TDS)	x small
South Valley	Utah	MBR	small
South District	Miami	HPO	large
UC Davis	Northern CA	Ditch	x small

Sampling Location and Frequency

- 6 WWTPs
- 24h-composite samples only
- Screened Influent (1L)
- Secondary Effluent (5L)
- Final Effluent (5L)
- One sampling event (3d) per quarter

- 4 times per year x 3 days x 3 samples/plant =
  = 36 samples/plant x 6 plants = 216 samples

Academia-Industry Collaboration

- Special thanks to the utilities participating in the project
- Additional thanks to the participants to the workshop on *Viral Surrogate Monitoring for Water Reuse*
  - AECOM; Brown and Caldwell; Cleantech; Consulting; Stantec; Trussell Technologies
  - Inland Empire Utilities Agency; Irvine Ranch Water District; Orange County Sanitation District; Orange County Water District; South Orange County Wastewater Authority; Water Replenishment District

UCI WEX Center
Research at the Water-Energy Nexus

Viral Surrogate Monitoring for Water Reuse

AN EVENING WITH WATER UTILITIES

U.S. EPA (EPA-G2021-STAR-A1) has funded a research project to understand the potential for implement viral surrogates to indicate viral safety of municipal wastewater reuse. You are invited to participate in an informal discussion with the research team to share the perspectives of water resource recovery facilities (WRRF) on this topic. Through this process, we hope to understand the water utilities' experience in monitoring viral surrogates, the perspectives, the capacity, and potential challenges. In this event, structured like a WEF Forum, utilities will lead the conversation instigated by the project team and will provide early feedback on the project direction and on industry priorities in municipal wastewater reuse. Thank you for your participation in this important study!

May 12, 2022
4:30 – 8:00pm

University of California, Irvine
Harut Barsiamian Colloquia Room (2430 Engineering Hall)

WateReuse California
Los Angeles Chapter Meeting

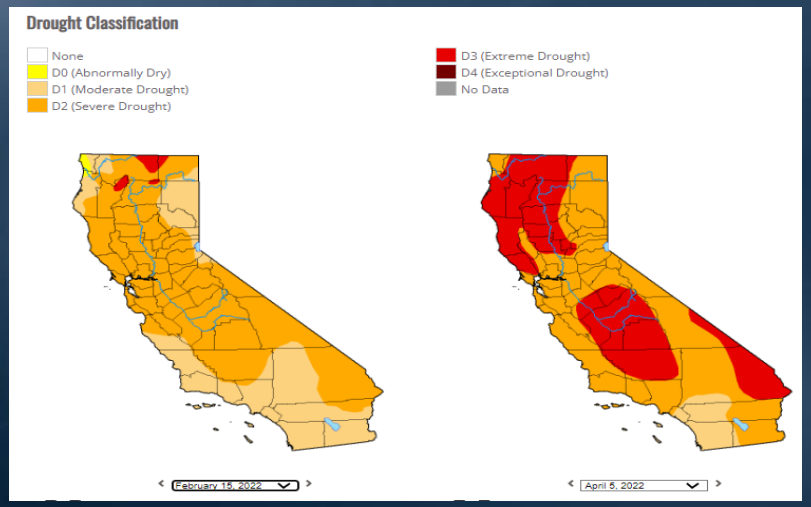
WATEREUSE
LOS ANGELES

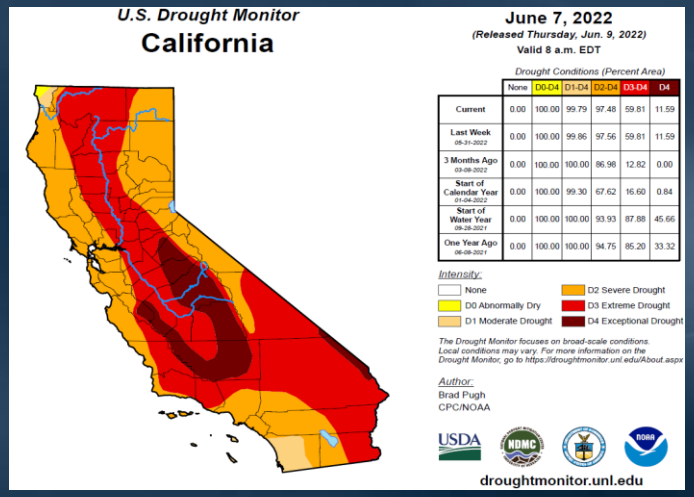
June 14, 2022
Legislation & Regulation Update

Raymond Jay
Metropolitan Water District of Southern California
(213) 217-5777 or rjay@mwdh2o.com

Drought

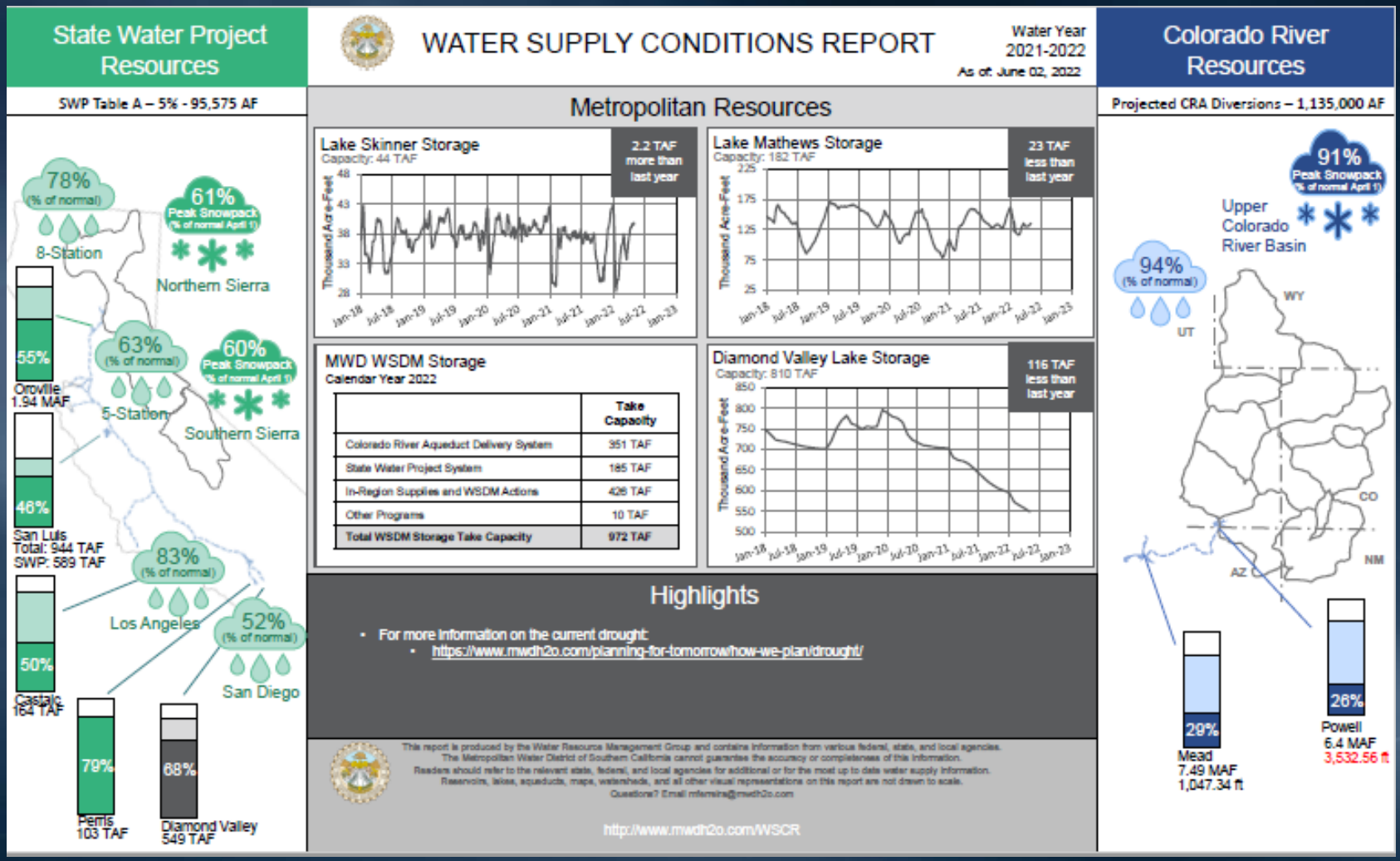
- SWP allocation decreased to 5% for 2022
- Governor's Exec. Order N-7-22 prohibits irrigating “non-functional turf” in CII settings
- Require water suppliers to implement Level 2 response actions in WCPs
- Suspends policies prohibiting hauling water, etc.
- Reduce irrigation to 1 day/week in exclusive areas





2022 Water Supply Conditions

- https://www.bewaterwise.com/water_supply_conditions/water_supply_conditions.pdf



2022 California Legislative Calendar

- Jan. 1 — Statutes take effect
- Jan. 4 — Legislature reconvenes
- Jan. 10 — Governor submits budget to Legislature
- Feb. 18 — Last day for bills to be introduced
- Apr. 29 — Last day policy comm. to report fiscal bills
- May 6 — Last day fiscal comm. to report fiscal bills
- June 4 — Last day for bills to pass house of origin
- June 15 — Last day to pass budget
- Sept. 10 — Last day for any bill to be passed
- Sept. 30 — Last day for Governor to sign or veto bills
- See: http://assembly.ca.gov/legislativedeadlines

2022 Water Legislation of Interest

- AB 1001 (C. Garcia): Environment: mitigation measures for air and water quality impacts: environmental justice
- AB 1845 (Calderon): MWD: alternative project delivery methods; WRCA = Support
- AB 2387 (Garcia, E): Safe Drinking Water, Wildfire Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, and Workforce Development Bond Act of 2022; WRCA = Watch; Held in Committee
- AB 2787 (Quirk): Microplastics in products; WRCA = Support: Held in Committee
- AB 2811 (Bennett): California Building Standards Commission: recycled water: nonpotable water systems; W
  Amended; Held in Committee
- https://watereuse.org/sections/watereuse-california/legislativeregulatory-committee/

Bill Number	Title	WRCA Position Letters (see below)
AB 1845 (Calderon)	Design Build	Support
AB 2387 (E. Garcia)	Climate Bond	Watch
AB 2787 (Quirk)	Microbeads/microplastics	Support
AB 2811 (Bennett)	Onsite reuse/dual plumbing	Oppose Unless Amended
SB 12 (McGuire & Stern)	Local Government: Planning and Zoning	Watch
SB 230 (Portantino)	CEC Program	Support
SB 991 (Newman)	Design Build	Support
SB 1144 (Wiener)	Graywater	Seek Amendments
SB 1157 (Hertzberg)	Indoor Residential Water Use Standard	Oppose Unless Amended
SB 1197 (Caballero)	Water Innovation	Support
AB 2247 (Bloom)	PFAS Source Database	Support

2022 Water Legislation of Interest

- SB 230 (Portantino): State Water Resources Control Board: CECs in Drinking Water Program; WRCA = Support: Amended 6/6
- SB 991 (Newman): Public contracts: progressive design-build: local agencies; WRCA = Support; Amended 6/6
- SB 1124 (Archuleta) Public health goal: primary drinking water standard: manganese
- SB 1144 (Wiener): Water efficiency and quality assessment reports: state buildings and public-school buildings; WRCA = Seek Amendments
- SB 1157 (Hertzberg): Hertzberg. Urban water use objectives: indoor residential water use; WRCA = Oppose Unless Amended
- SB 1188 (Laird): Safe Drinking Water State Revolving Fund: financial assistance
- SB 1197 (Caballero): Water Innovation and Drought Resiliency
- SB 1219 (Hurtado): Water: 21st century water laws and agencies: committee

California Budget and RW Funding

- Governor's FY22-23 Budget - proposed
  - $300 billion
  - $49 billion projected budget surplus
  - $1.63 B for Drought & Water Resilience
  - Final by June 15, 2022 with potential trailer bill https://www.ebudget.ca.gov/
- $400M for recycled water & groundwater recovery (WRCA requests 50% for RW)
  - $200M in FY 21-22
  - $100M in FY 22-23 & FY 23-24
- $100M for PFAS support
- WRCA request $750M for RW in FY22/23

Water Use Efficiency Implementation

- Water Conservation and Drought Planning
  - AB 1668 (Friedman, 2018) SB 606 (Hertzberg, 2018)
  - SB 1157 (Hertzberg, 2022): Hertzberg. Urban water use objectives: indoor residential water use
- Establish water use efficiency objectives & reporting
- SB 1157 decrease indoor water use from 55 GPCD to 47 GPCD by 2025 and 42 GPPD by 2030
- Potable reuse credit of 10-15% for new or existing facilities
- Follow MWELO for outdoor uses
- No penalties before Nov. 2027

Regulatory Update

- Cross Connection Control Handbook – Title 17
  - Use of Swivel-ell requirements
  - DDW is still evaluating comments (per website)
  - Second public comment, Public Hearing, & Board adoption : TBD
    - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/cccph/cccph_draft_feb2021.pdf
    - https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/cccph.html
- Water Use Efficiency Implementation
  - RW variances and potable use credit Workshops
  - Potential variances for RW with >1,000 mg/l TDS
  - Accepting comments through 2/11/22
  - Proposed adoption in Spring 2022

Federal Infrastructure Update

Infrastructure Investment and Jobs Act (IIJA)

- $1 billion for western water recycling
  - $550M over 5 years for Title XVI WIIN program
  - $450M Large-Scale Water Recycling and Reuse
- $48 billion for nationwide programs
- Reauthorizes Alternative Water Source Grants
- Establishes federal interagency water reuse group
- Build America/Buy America requirements

Federal Update

- FY22 appropriations completed March 15, 2022

	IIJA	Appropriations	Total
Reclamation			
Water Recycling (Title XVI)	$245 M	$17.5 M	$262.5 M
Safety of Dams	$100 M	$182.5 M	$282.5 M
Lower CR DCP	$50 M	$52.2 M	$102.5 M
CALFED	0	$33 M	$33 M
EPA			
Drinking Water SRF	$1.9 B	$1.1 B	$3.0 B
Clean Water SRF	$1.9 B	$1.6 B	$3.5 B
WIFIA	0	$69.5 M	$69.5 M

- FY 23 appropriations under development
- Water Resource Development Act
- S.4231- STREAM Act - $300M for RW

Questions?

If you have any questions, please contact:

Raymond Jay, Past President

WATEREUSE LOS ANGELES

c/o Metropolitan Water District of Southern California
700 N Alameda Street
Los Angeles, CA 90054
(213) 217-5777
rjay@mwd.h2o.com

Regulatory Agency Updates

WATEREUSE
LOS ANGELES

Chapter Trustee Updates
WateReuse LA Chapter – June 14, 2022

2022 - WateReuse California Annual Conference

- September 11-13, 2022
- San Francisco, California
- Hyatt Regency Embarcadero in San Francisco
- Early Bird registration ends July 15th
- Deadline Extended for “Awards of Excellence” Nominations

WRCA Comments and Goodbye to Charles LaSalle

- WRCA thanked Charles LaSalle for his service as the Regulatory and Legislative Affairs Manager
- Overall grateful for his work ethic and service, he will be missed

Thank You!

Chapter Updates *(Judi Miller)*

- February and April Meeting Summary Approvals
  - Voting by one rep from each member org
- Volunteer Opportunities
  - Meeting Summaries
  - Awards Representation Lead (for WRCA Annual Conference)
- Emerging Professionals Committee Update
  - Chair: *Alex Waite* *alex.waite@smgov.net*
- Membership Committee
  - Chair: *Everett Ferguson* *eferguson@wrd.org*
- Technical Topics Committee
  - Chair: *Alex Franchi* *alex.franchi@aecom.com*

WATEREUSE LOS ANGELES

Membership Roundtable *(Jared Lee)*

WATEREUSE
LOS ANGELES

Next Meetings

- Tuesday, August 9, 2022:
  - West Basin Municipal Water District (+ virtual)
  - Sponsorship opportunity
- Tuesday, October 11, 2022:
  - Location TBD
  - Possibly joint w/OC Chapter
  - Sponsorship opportunity

WATEREUSE
LOS ANGELES