

WELCOME!

The program will begin soon

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INFORMAL NETWORKING

Grab yourself coffee and a bagel, then sit back and relax while our team introduces themselves.

(we'll end at 8:55am so we can start the welcome promptly at 9am)





WELCOME AND INTRODUCTIONS

Pamela Perez, MBA
Pepperdine 2009, Penn State 1996
Marketing Manager

WWW.LACITYSAN.ORG







TODAY'S AGENDA

8:30am	Informal Networking (optional)
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9:00am Event Welcome and Introduction to LA Sanitation & Environment

9:20am Info Sessions – Clean Water, Solid Resources, or Watershed Protection

9:50am Finance & Regulatory Affairs Info Session

10:20am Employment Opportunities

11:15am Info Sessions – Clean Water, Solid Resources, or Watershed Protection

11:45am Panels – Climate Change or DEI

12:15pm Closing Thoughts

12:30pm Networking

1:00pm Adjourn

LACITYSAN.ORG/PGL



RULES OF ENGAGEMENT

- Microphones will be off please raise your hand at the end of presentations to ask a question and we'll unmute you. The chat function is disabled.
- Try to keep comments and questions brief and on topic so everyone has a chance to speak up.
- Leaving your camera on allows us to see if you're engaged or bored so we can adjust accordingly.
- If we don't get to your question, please write it down and share it in your post-event survey. We'll create an FAQ to share.
- We will do our best to stick to the agenda and scheduled times in order to stay on track and end by 1pm.
- Please be respectful. Anyone making inappropriate comments or showing anything inappropriate will be removed from the event, reported to Zoom, and reported to their university.





ABOUT LASAN

Pamela Perez, MBA Marketing Manager



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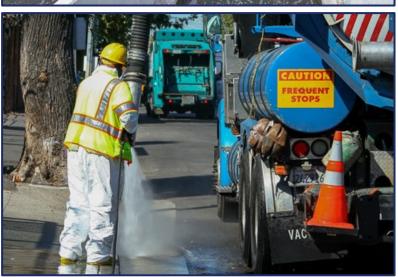




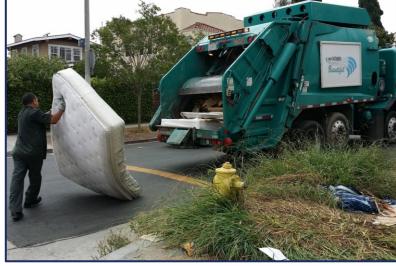
OUR MISSION IS TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT

OUR CORE IS
DIVERSITY
EQUITY
INCLUSION



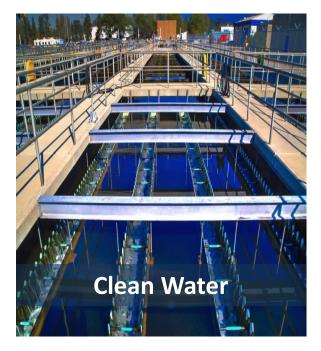


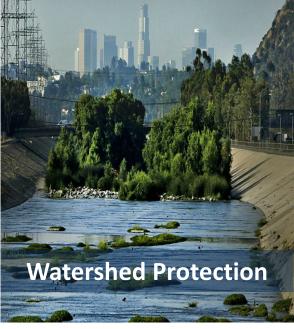






3 MAIN PROGRAMS







MANY SPECIALTY PROGRAMS:

Brownfields | Biodiversity | Climate Change | Healthy Soils | Environmental Justice



GOVERNANCE





- Bureau of Sanitation
- Bureau of Engineering
- Bureau of Street Lighting
- Bureau of Street Services
- Bureau of Contract Administration

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REGULATORY OVERSIGHT











^{*} This is not a complete list

INTERNAL STRUCTURE

9 Executives:

- Director/GM
- Chief Operating Officer
- Chief Financial Officer
- 5 Assistant Directors
- 1 Executive Plant Manager



26 Divisions

- Administration
- Clean WaterConveyance (North and South)
- Customer Care
- Environmental Monitoring
- Executive
- Financial Management
- Hyperion Engineering & Operations
- Hyperion Maintenance
- Industrial Safety & Compliance
- Solid Resources Support

- Industrial Waste
 Management
- Information & Control Systems (IT)
- Livability Services
- Regulatory Affairs
- Citywide Recycling
- Commercial Franchise (recycLA)
- Processing & Construction
- Collection (South and Valley)

- Terminal Island WRP
- WastewaterEngineeringServices
- Tillman WRP
- LAG WRP
- Water Recycling Implementation
- Watershed Protection
- Safe Clean Water Implementation

Divisions that hire engineers



CULTURE



















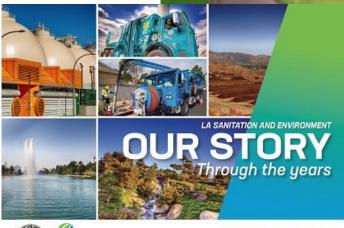


CULTURE



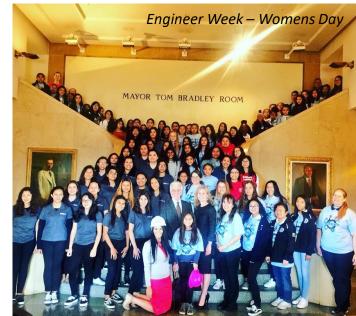








1800 through 2020 An Environmental Journey: Past, Present, Future LACITYSAN.ORG/OURHISTORY



Christmas photos with the Mayor

Earth Day LA

CULTURE



Chamber Dinner

UNITED US ANGLES AND ANGLES AND ANGLES ANG

Truck signs to celebrate staff

Not all heroes wear capes... but ours wear masks.



No todos los héroes usan capa... pero los nuestros llevan máscaras.

24-hour Customer Care: 800-773-2489 LACITYSAN.ORG









OUR ENGINEERS

Engineers make up **7%** of our workforce

Field and counter work, finance, engineering plans, outreach, government affairs

Soft skills include teamwork, creating presentations, public speaking, networking, teaching



WHERE ARE WE?

- 4 water reclamation plants
- 5 Education/Nature Centers
- 6 collection yards/3 green waste
- 5 clean water conveyance yards
- Offices: Public Works Building, Media Center, City Hall
- Public transportation to DTLA + commuter benefits

SERVICE MAP

Facilities Offices Educational Center SAFE Center Yards

Treatment Plants

Mulch Site

Image Legend

OF : Offices

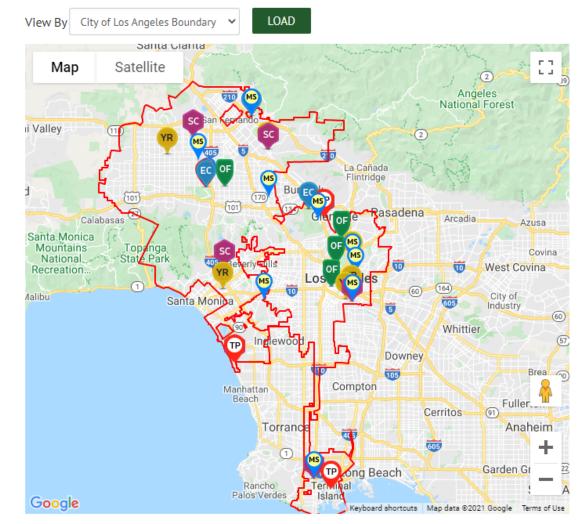
EC: Educational Center

SC:SAFE Center

YR: Yards

TP: Treatment Plants

MS: Mulch Site

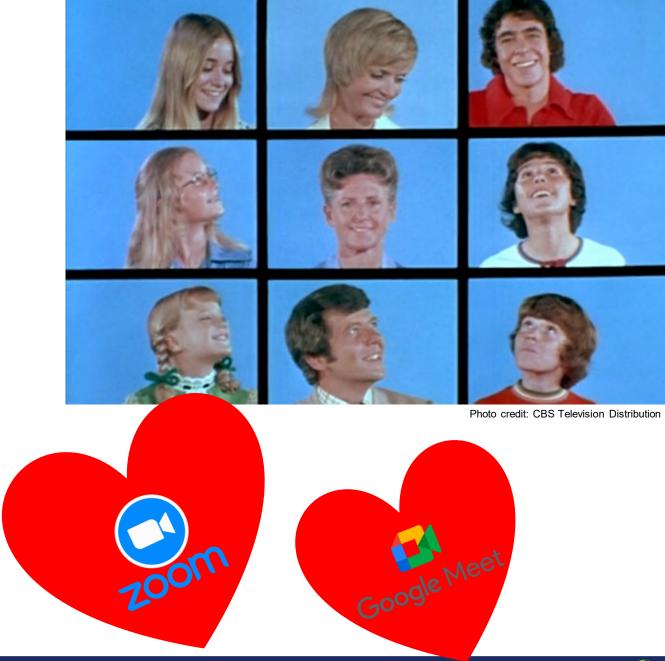


LACITYSAN.ORG/MAP



UNUSUAL TIMES

- Hybrid schedules reporting to the office 2-3 days/week
- Proof of vaccination is required for employment; may file for exemption
- Work independently and in teams check in regularly with supervisor
- Social distancing and masks are now suggested, not required at LASAN locations & in field
- Switching from desk phones to mobile
- Still no shared food & beverage



LIFE IN LOS ANGELES

- World-class universities
- Museums, live music, theater, nightlife
- Food trucks & fine dining
- Shop til you drop
- DIVERSITY immerse yourself in culture, language, festivals, history
- Same day surf, swim, bike, ski, hike in incredible weather with low to no humidity
- Five airports
- 5-hour flight to Hawaii or to views of northern lights
- 1.5-hour drive to Palm Springs
- 4-hour drive to Vegas, 1 more Hoover Dam
- Avg Studio \$2051/1BR \$2888/2BR \$3902 plenty of great roommates out there!

































HTTPS://WWW.APARTMENTLIST.COM/RENTER-LIFE/AVERAGE-RENT-IN-LOS-ANGELES



Solid Resources Program

James Roska, EEA III | Raymond Olivares, EEA II

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PRESENTER BIO

James Roska, P.E.

- Environmental Engineering Associate III
- Graduated from California State Polytechnic University Pomona, 2016
 - B.S. Chemical Engineering
 - Minor Materials Engineering
- 6 years with LASAN (SRSSD)







LASAN SOLID RESOURCES PROGRAM

- Responsible for the collection and disposal of all solid material and waste in the City of Los Angeles Core Programs Include:
 - Blue Bin for recyclables
 - Green-Bin for yard trimmings
 - Brown-Bin for horse manure
 - Black-Bin for remaining refuse
- Additional Programs Include:
 - Bulky Items Collection
 - Dead Animal Collection
 - Mattress Recycling and Used Tire Recycling
 - Household Hazardous Waste
 - and many more
- Our objective is to become a ZERO-WASTE CITY!





SOLID RESOURCES DIVISIONS

Program Development

- Support Services Division
- Citywide Recycling Division
 - S.A.F.E. Centers for drop-off of household Hazardous waste
 - Regulatory reporting for solid waste and recycling
- Commercial Franchise Division
 - Manage recycLA commercial franchise contract for over 66,000 commercial businesses
 - Required to reduce 1,000,000 tons per year by 2025

Operations

- Processing and Construction Division
- Livability Services Division
 - Litter abatement and Illegal Dumping
- Valley Collections and South Collections Divisions
 - Fleet of over 800 drivers and vehicles servicing LA residents







SOLID RESOURCES SUPPORT SERVICES DIVISION (SRSSD)

- Manages weekly service for 750,000 single family households and small multi-family complexes
- Support and manage yard facilities and fleet:
 - 6 waste collection yards throughout City
 - Fleet of over 800 vehicles
- Assist the solids operations by providing engineering, technical, environmental compliance, and administrative support
 - Research and Program Development
 - Contract Management
 - Operations Planning
 - and many more



MY RESPONSIBILITIES

- Organics Recycling Program Manager
 - Contract development and negotiations
 - Facility utilization and capacity planning
 - Operations research, data analysis, and reporting
 - Presentations to City officials and other stakeholders
- Pilot Projects and Studies
 - In-Sink Pilot Program
 - Curbside food waste collection program expansion
 - Farmers' Market food waste recycling program









GREEN-BIN AND BROWN-BIN PROGRAM

- An average of 1,600 tons per day of yard waste and horse manure are collected per day.
- Materials accepted include:
 - Grass, leaves, weeds, tree branches
 - Fruit and vegetables (from your garden only)
 - Clean and untreated wood
 - Horse manure (brown-bin only)
- Food scraps are currently allowed in the homes that are part of the organic pilot program. LASAN is implementing a number of innovative programs to expand accessibility to food scrap recycling and working on long term contracts for recycling organics.









CURB YOUR FOOD WASTE LA PILOT PROGRAM

- Piloted to 18,000 households throughout the City
- Educated participants about preventing food waste and providing them ability to recycle their food scraps in the green-bin.
- Conducted door-to-door surveys and 30 community events.
- Conducted quarterly waste characterizations to gauge participation.











FROM PILOT PROGRAM TO FULL IMPLEMENTATION







Recycle the Rest: Put Food Scraps in your Green Bin

Use what you bought, recycle any remaining food scraps



Fill your pail (or a container of your choice) with food scraps.





Empty pail contents into your green bin. Rinse out pail. Fill again.





Take your green bin to the curb for weekly collection.









PRESENTER BIO

Raymond Olivares

- Environmental Engineering Associate II
- Graduated from California State University Los Angeles, 2019
 - B.S. Civil Engineering
- 5 years with LASAN (SRPCD)
 - 2 years as an intern (2017-19)
 - 3 years as full-time (2019- Present)









Facilities Map

Legend



City Boundary



Closed Landfill

- Lopez Canyon
- Bishop Canyon
- Toyon Canyon
- Sheldon-Arleta
- Gaffey Street



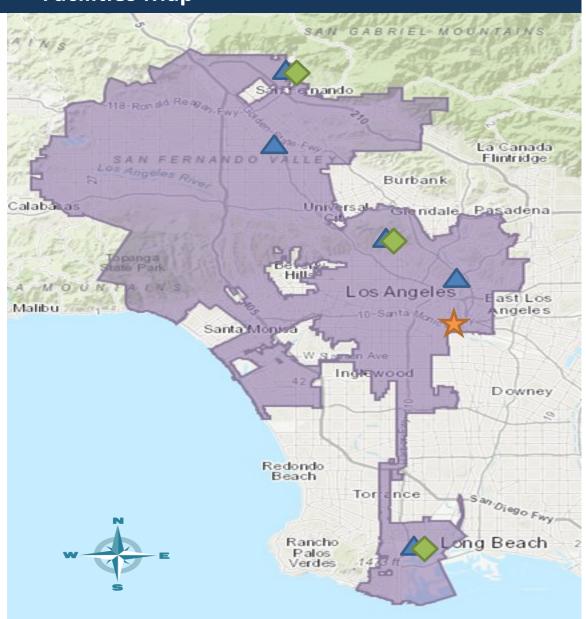
Compost Facility

- Lopez Environmental Center
- Griffith Park
- Harbor Yard Trimmings Facility

Transfer Station



 Central Los Angeles Recycling and Transfer Station (CLARTS)





PROCESSING AND CONSTRUCTION DIVISION (SRPCD)

- Manage our City-owned Transfer Station known as CLARTS
 - Temporarily collect black bin refuse for transport
- Maintain 5 City-owned Landfills (Closed)
 - Lopez Canyon
 - Sheldon-Arleta
 - Toyon Canyon
 - Bishop Canyon
 - Gaffey Street
- Green waste Operation
 - Free Mulch & Compost





MY RESPONSIBILITIES AT SRPCD

- Project Management
- Cost Estimating
- Construction Management
- Manage City Contracts
- Regulatory Technical Reporting
- Oversee Operations
- Construction Management
- Scheduling





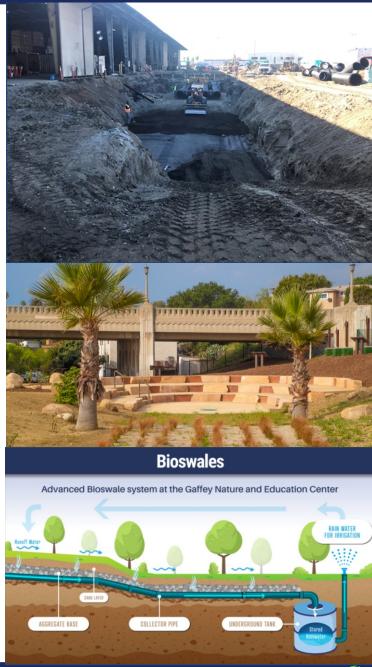
PROJECTS

CLARTS Stormwater & Safety Improvements Project

- Installation of a stormwater management system
- Site Improvements
 - Electrical underground duct bank
 - Replaced Entrance Scale House
 - Replacement of roof panels

Gaffey Nature Center (San Pedro, CA)

- 2 Acre Self Sustainable Recreational Park
 - Constructed in-house
 - Passive Bio-Swale system
 - Amphitheater Environmental Education Center







Raymond Olivares, EEA
James Roska, EEA



THANK YOU! Questions?



Legislation and Financial Management

Karina Gonzalez | Jeasmin Lopez









PRESENTER BIO

Karina Gonzalez

- Environmental Engineering Associate
- BS in Environmental Engineering from the University of California, Irvine
- 5 years with LASAN
 - 1 Year Student Engineer
 - 2 Years Water Reclamation Division
 - 2 Years Regulatory Affairs Division













REGULATORY AFFAIRS DIVISION

- Regulatory and Policy Advocacy
- New Legislation Tracking (e.g. PFAS)
- Water Quality & Permitting
- California Environmental Quality Act (CEQA) studies
- Greenhouse Gas (GHG) Inventories
- Climate Resiliency
- Urban Forestry
- Biodiversity & Healthy Soils







MY RESPONSIBILITIES

Current

- Water Quality and Permitting projects
 - Donald C. Tillman and Los Angeles-Glendale
 Water Reclamation Plants National
 Pollution Discharge Elimination System
 (NPDES) Permits
 - Tracking legislative and regulatory developments (PFAS, water recycling, microplastics, etc.)
 - Contract Management

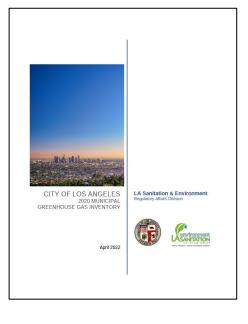
Past

- Climate Action Program projects:
 - Annual municipal greenhouse gas (GHG) inventories for City of LA







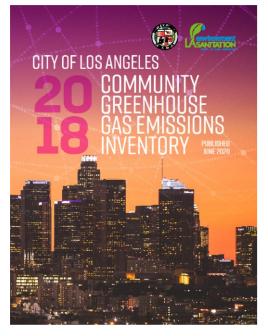




RAD PROJECTS

- National Pollutant Discharge Elimination
 System (NPDES) permits for LASAN Water
 Reclamation Plants
- Title 22 Engineering Reports
- Municipal and Community-wide GHG Inventories
- Community-wide GHG inventory and report
- Air Quality Inventory
- Hyperion 2035 CEQA







PERSONAL EXPERIENCE AT RAD

- Understanding the regulations behind City facility operations
- Project Diversity
- Working with Regulatory Agencies
- Improved project management and communication skills
- Hybrid Schedule



ENGINEER DAY 2022



Financial Management

Jeasmin Lopez, EIT



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FINANCIAL MANAGEMENT DIVISION (FMD)

Mission

To safeguard public funds and ensure financial stability of the Bureau's environmental programs.

Main Roles of Engineers:



MY RESPONSIBILITIES

Fund Manager

- Wastewater
- Bureau-wide
- Solid Resources
- Stormwater

FMD Lead

- Los Angeles Glendale Water Reclamation Plant (LAG)
- Collection System Yards
- Central Business District

WHAT AN ENGINEER MIGHT DO IN FMD







1. Site Visits

2. Project Evaluation

3. Financial Assessment and Prioritization

PROJECT PRIORITIZATION CRITERIA

Safety

Financial

Physical Condition

Environmental Justice

Performance & Process Condition

Regulatory & Environmental Impact

Efficiency & Energy/ Process Effectiveness

Public Benefit & Perception & Community Growth

Operations & Maintenance/ Service Level/ Reliability



HOW I'VE GROWN AT LASAN



ENGINEER DAY 2022





Karina Gonzalez Jeasmin Lopez



THANK YOU! Questions?

ENGINEER DAY 2022



Employment Opportunities

Gabriel R. Angulo – Environmental Engineer Associate CSULB (2020)

Wastewater Engineering Services Division







MY JOURNEY TO LA SANITATION









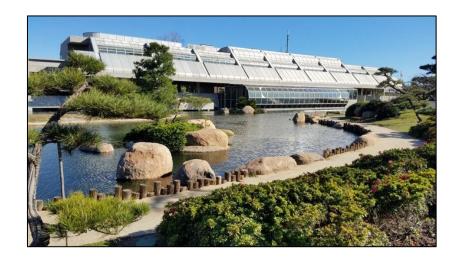






AS A STUDENT ENGINEER

- Reviewed Sewer Capacity Availability Requests (SCARs) to determine hydraulic capacities for development, construction, and groundwater dewatering projects
- Performed engineering assignments for special projects regarding flow conveyance, gauging data, and hydraulic modeling
- Provided QA/QC condition assessments for the LA sewer system through CCTV
- Collected carbon scrubber data at air treatment facilities
- Public outreach / field visits











STUDENT ENGINEER I-V

- Exempt part-time position (950 hrs. max per year or roughly 20 hrs./week)
- Flexible work schedule around academic calendar
- Compensation linked to current standing class (\$20.10-\$37.51 per hr.)
- Most tasks can be performed remotely
- Perform entry-level engineering assignments
- Participate in community events
- Can work until graduation



STUDENT ENGINEER REQUIREMENTS

- Enrolled as a full-time engineering (civil, chemical, mechanical, or environmental) student with a minimum of one year of completed college education
- At least 18 years of age with proof of identity and legal right to work in the US
- No experience required and is treated as a learning opportunity
- Graduate students are welcomed



ENVIRONMENTAL ENGINEERING ASSOCIATE (EEA)

Eligibility & Requirements:

- Environmental Engineering Associate (EEA) I-IV
- Must be at least 18 years old
- Have proof of identity and legal right to work in the U.S.
- EIT is required within 3 years of being hired
- Bachelor's or Master's with at least 12 semester units or 18 quarter units in core environmental engineering courses; or
- Certification as an Engineer-in-Training (EIT); or
- Registration as a Professional Engineer





Computing & Engineering Accreditation Commissions

EEA BENEFITS

- Annual salary: \$85,816 \$144,176
- Benefits and salary increases!
- Overtime work is paid
- 13 paid holidays!
- Tuition reimbursement
- Pension plan
- Unionized by SEIU 721
- 9/80 schedule











EEA: WHAT MY POSITION ENTAILS

- Primary Planning Group
- Relief and rehabilitation projects that are expected to be required by year 2080
- Work with contractors and bureau of engineering (BOE)



Examples of what engineers do in WESD:

- Planning and engineering services
- Assists LASAN in complying with City policies, regulatory, and legal requirements for the City's sewer systems
- Data analysis and reporting
- Public outreach opportunities
- Field visits



EXPERIENCE

- Project management
- Planning and conducting meetings with vendors and other LASAN staff
- Civic engagement with public
- Learned to use new software and tools
- Leadership mentoring
- Disaster service work



APPLICATION PROCESS

- Submit your resume on university portal (e.g., handshake) for consideration
- Career fairs (e.g., SWE, NSBE, SHPE)
- Civil Service Interviews
- Candidates are scored & placed on an eligibility list according to rank
- Placement interviews (Round 2)





IMPORTANT INTERVIEW NOTES

- Examination/interview classification (Civil / Environmental) is good for 365 days
- DWP and LASAN share the same eligibility list for EEA's
- Cannot interview more than once per classification per year
 - LA Los Angeles Department of Water & Power

- EEA Class Code: 7871
 - DWP & LASAN have same code
 - Same interview
- Student Engineer Class Code: 7203
 - DWP & LASAN have different codes
 - Different interviews





ENGINEER DAY 2022



Gabriel Angulo



THANK YOU! Questions?

ENGINEER DAY 2022



PANEL 1A: CLIMATE ACTION

James Roska | Paul Cobian | Richard Southerland













PANEL 1B: DIVERSITY, EQUITY, & **INCLUSION**

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Flor Burrola | Jim Aldrich | Susie Santilena

ENGINEER DAY 2022



Clean Water Program

Michael Parker | Kimia Nader-Tehrani, P.E.









@LACITYSAN

Presenters

Michael Parker

- Environmental Engineering Associate
- CSULA 2014 M.S. Civil Engineering
- Humboldt State University 2011 B.S. Environmental Eng.
- Hyperion Water Reclamation Plant (HWRP)



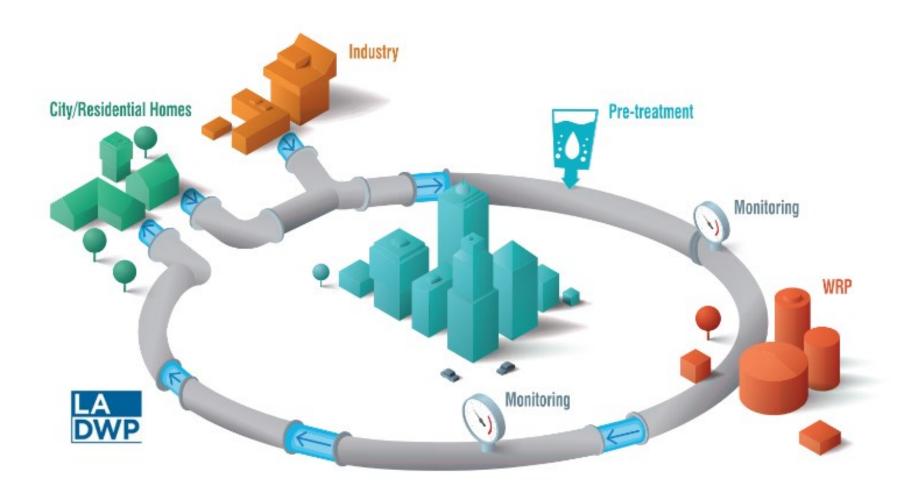
Kimia Nader-Tehrani

- Environmental Engineering Associate
- UCLA 2018 M.S. Civil & Environmental Engineering
- UC Davis 2016 B.S. Civil & Environmental Engineering
- Water Recycling Implementation Division (WRID)





Overview: Clean Water Program



California Drought

- California has a long history of dealing with droughts
- 2022 has been the driest water year in California's recorded history
- Mayor Eric Garcetti collaborated with stakeholders to create L.A.'s Green New Deal
 - Recycling 100% of all L.A.'s wastewater by 2035

 $\textbf{Lake Oroville 2011 and 2014:} \ https://www.theguardian.com/environment/gallery/2014/aug/20/drought-in-california-in-pictures$

2021: https://www.latimes.com/california/story/2021-10-18/california-records-driest-year-in-a-century?utm id=39798&sfmc id=683333





2011 2014



2021



Industrial Waste Management





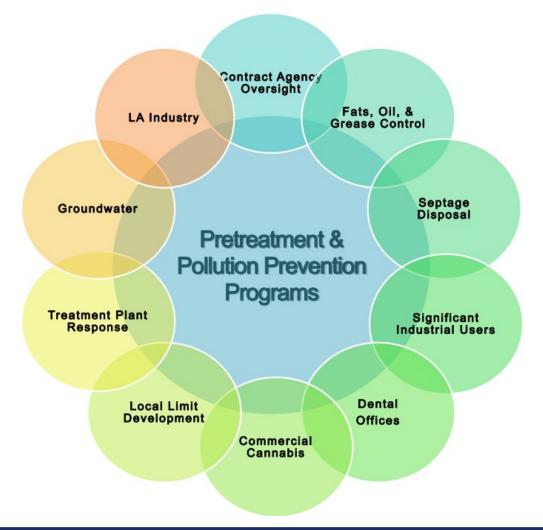


- 16,000+ industries are permitted in the City of Los Angeles
- Wastewater produced by industries can be toxic to microorganisms and the environment if unmanaged



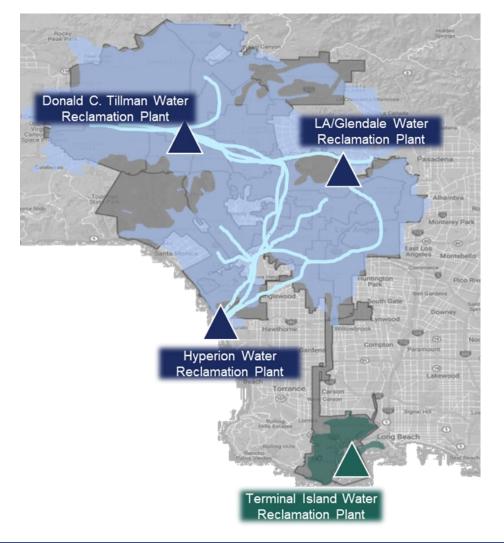


Industrial Waste Management: Pretreatment and Pollution Prevention Programs



Wastewater System Overview

- City of LA Service Area
 Population Served: 4,000,000
 Area Served: 600 square miles
 Sewer System Length 6,700 Miles
- Wastewater needs to be transported from residential, commercial, and industrial areas to water reclamation plants, without leaking or causing odors





Water Reclamation Plants

- The water reclamation plants treat wastewater and reclaim them to levels where they can be reused for different purposes
- Treatment Processes
 - Conventional Wastewater Treatment Process
 - Water Reclamation Treatment Processes















Water Reclamation Plants

- LASAN operates four water reclamation plants.
 - DCT
 - LAG
 - HWRP
 - Terminal Island
- Combined capacity of 580 million gallons per day of recycled water











Hyperion Water Reclamation Plant

- Plant staff of 400 full-time employees
- O & M Budget of \$90M
- Planned Capital Improvement Projects
 - \$50+ million budget per year

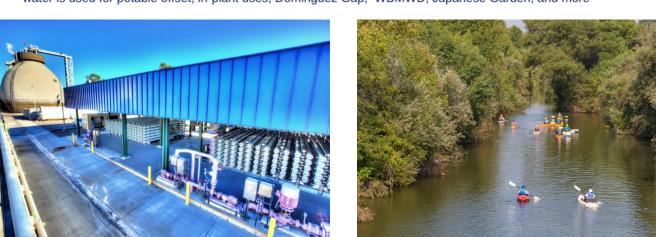


LASAN Current Recycled Water Production

Recycled Water Production 2020-2021 Flow In (mgd) Water Reused* (mgd)

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



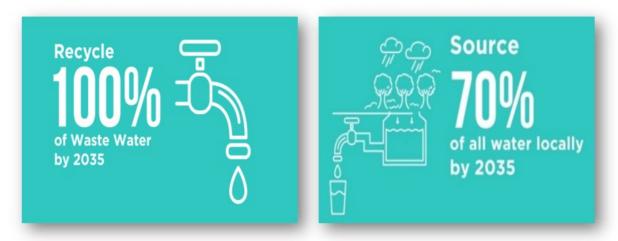






Hyperion 2035 Program

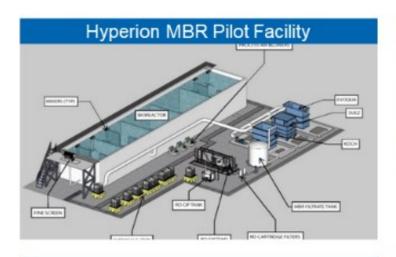
Mayor Garcetti's LA Green New Deal



Implement 100% water recycling using full advanced treatment by 2035



Extensive Planning and Key Projects













Michael's Experience: Hyperion

Lots to do:

- Projects in Design & Construction
- Collaborative Work
- Process Control Engineering
- Special Studies
- Trips Offsite







Michael's Experience: Hyperion

- <u>Union Support</u> Work/Life balance, labor contract, stability.
- Real-World testing- The opportunity to see projects and decisions tested in the real world.
- Improvement New projects are always on the horizon. There is always room for improvement.





Kimia's Experience: Water Recycling Implementation

- Hyperion 2035
 - Project Engineer on the MBR Pilot Project
 - Design/Construction
 - Testing and Monitoring
 - Process Optimization
 - Technical Studies
 - Outreach







Kimia's Experience: Water Recycling Implementation

- Work on projects to help create a more sustainable source of water for Los Angeles
- Participate in a variety of scientific projects and studies
- Collaboration with many entities
- Work right next to the beach!











Michael Parker, EEA Kimia Nader-Tehrani, EEA



THANKYOU! Questions?



Watershed Protection Program

James Aldrich & Jorge Mejia









Background

Jorge Mejia, PE

- Environmental Engineering Associate
- Licensed professional engineer (Civil)
- California State University of Long Beach, 2020
 - M.S. Civil Engineering, Water Resources
 - B.S. Civil Engineering
- Work Experience
 - Internship
 - City of Anaheim Traffic & Design
 - LA County DPW Flood Control
 - Public
 - LA Sanitation Watershed Protection

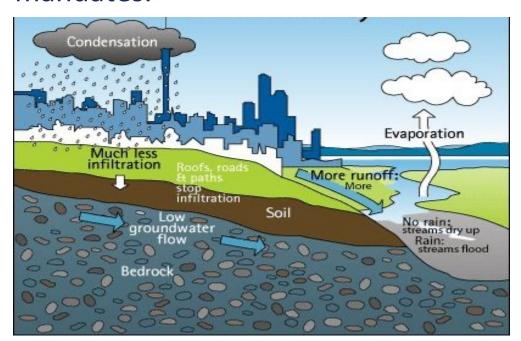


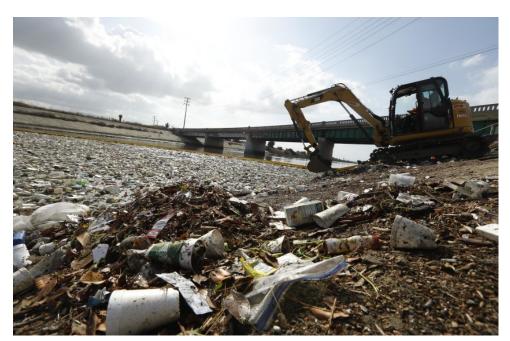




Our Mission in Watershed Protection

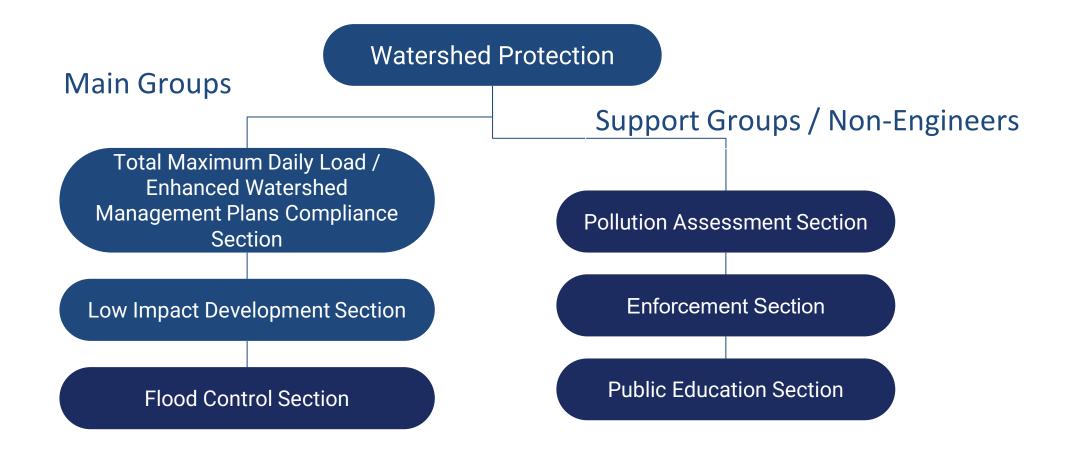
 The mission of the Watershed Protection Program is to protect the beneficial uses of receiving waters while complying with all flood control and pollution abatement mandates.





source: https://www.nationalgeographic.org/photo/urban-water-cycle/

The Division Breakdown



Support Groups / Non-Engineers

Pollution Assessment

 Monitor all four watersheds and their water bodies to evaluate the impact of stormwater pollution



Enforcement

Enforce local, state, and federal laws, investigate environmental crimes



Public Education

- Education through public outreach and social media.



Flood Control Section

- In charge of monitoring and addressing degraded storm drain system infrastructure
- City's storm drain system
 - 1,200 Miles of Pipes
 - 100 miles of open channel
 - 136 debris basins
 - 39,451 catch basins
 - 18 stormwater pump plants
 - Managed by City, County, USACE & Caltrans
- Pros and Cons



TMDL / EWMP Compliance Section

TMDL (Total Maximum Daily Load)

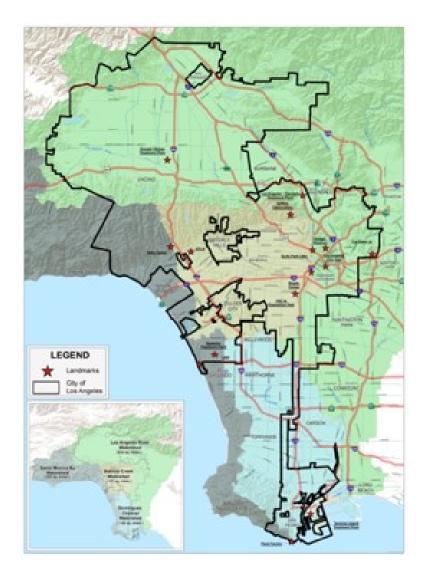
 The maximum amount of pollutant that is allowed to enter the receiving waters

LA Watersheds

- Ballona Creek
- Dominguez Channel
- Los Angeles River
- Santa Monica Bay

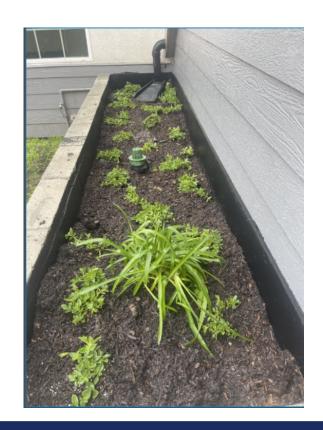
Enhanced Watershed Management Plans

- Illustrates amount of projects needed to prevent and reduce pollutants
- Comply with stormwater quality mandates
- Improves LA's waterways and waterbodies

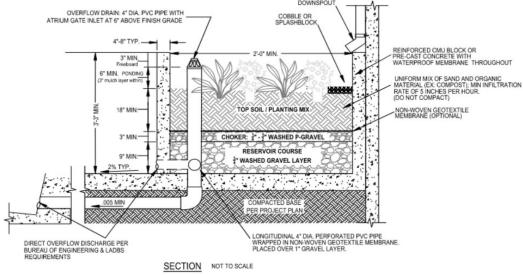


Low Impact Development (LID) Section

Residential or Commercial Developments of 500 sq ft or greater of impervious areas must include stormwater pollution mitigation and plans must be approved at the LID Counter.









Background

Jim Aldrich, EIT

- Environmental Engineering Associate
- University of California, Riverside 2018
 - B.S. Chemical Engineering







What is the Safe Clean Water Program?

Water Quality Compliance

- Protect water quality
- Protect rivers, lakes, and bays
- Assist in compliance with federal, state, and local water quality mandates

Water Supply and Resilience

- Reduce LA's reliance on imported water
- Develop new water supplies





Enhanced Community Investments

- Disadvantaged communities
- Create more green space
- Environmental justice
- Flood protection
- Local workforce



Safe Clean Water Program: LA Sanitation's Role

LASAN's Key Roles

- Coordinate with elected officials, City departments, LA County Flood Control District, co-permittees, and stakeholders
- Coordinate, select and develop SCW Projects and Programs
- Design, construct, operate, and maintain funded projects





Safe Clean Water: Approved Regional Projects

Central Santa Monica Bay Watershed

✓MacArthur Lake Rehabilitation Project (\$20 million)

South Santa Monica Bay Watershed

✓Wilmington Q Street Local Urban Area Flow Management Project (\$5 million)

✓Zinc Recalculation Wet Weather -Scientific Study (\$57,886)







Upper Los Angeles River Watershed

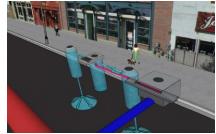
✓Oro Vista Local Urban Area Flow Management Project (\$10.6 million)

✓Lankershim Boulevard Local Urban Area Flow Management Project (\$25.7 million)

✓Zinc Recalculation Wet Weather -Scientific Study (\$352,831)

✓Echo Park Lake Rehabilitation -Operations and Maintenance (\$400,000)







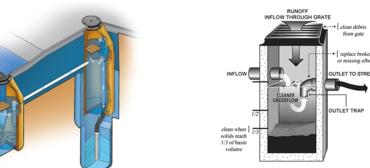


Planning and Engineering / Grants Section

- Reducing stormwater pollution by implementing projects to install BMPs (Best Management Practices)
- BMPs may include:
 - o Drywells
 - O Rain Gardens
 - Catch Basins



McCarthur Lake Stormwater Project







Bradley Green Alley in Pacoima





SCWID Engineers

- Reporting
- Developing Concept Reports and Feasibility Studies
- Field Visits
- Cost Estimates
- Funding Opportunities
- Community Outreach and Engagement



James Aldrich



Jorge Mejia

ENVIRONMENT ASANITATION CITY OF LOS ANGELES zero waste • zero wasted water

THANK YOU! Questions?





LASAN TECH TALKS | ENGINEERING SERIES

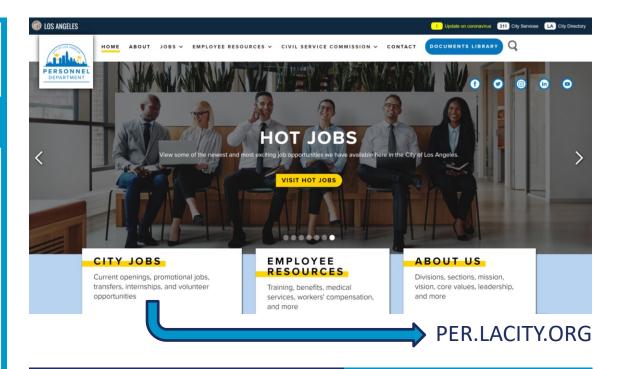
October 11	Transforming our Organic and Food Waste into a Valuable Resource ~ James Roska
October 18	Redesigning Water to Ensure our Survival - Dr. Nasir Emami, P.E. and Kimia Nader-Tehrani, EIT
October 25	Countering Climate Change: A Deeper Look into Protecting our Watersheds ~ Orval Hernandez-Marcial & Sarah Garcia
November 1	Safeguarding LA's Treasured Water Bodies - Brett Perry & Richard Tavolacci
November 8	Counting Carbons in our Effort for Cleaner Air in LA - Mahsa Ostowari
November 15	Re-envisioning Plastics in Combating Climate Change Paul Cobian

All sessions are held on Tuesdays from 12pm-1pm via Zoom.

Sessions will include a 30-minute talk followed by Q&A, then hiring information.

SPACE IS LIMITED

RSVP: LASAN2022TECHTALKS.EVENTBRITE.COM



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website: LACITYSAN.ORG/PGL

















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Closing Thoughts

Doug Walters, P.E.



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NETWORKING

Choose your first breakout session to speak with our engineers. You may exit the session and enter a new one.

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