



**LOS ANGELES COUNTY
SANITATION DISTRICTS**
Converting Waste Into Resources

2021

Annual Report



In 2021, we turned wastewater and trash into:

53.6

BILLION GALLONS OF RECYCLED WATER

75

MEGAWATTS OF ELECTRICITY

120,000

TONS OF RECYCLED COMMODITIES

128,000

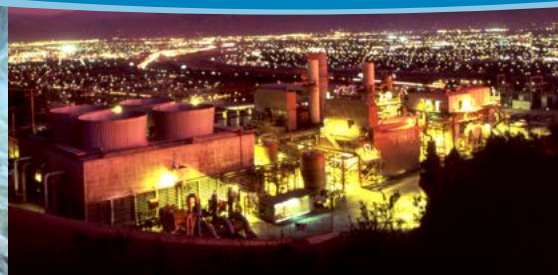
TONS OF COMPOST

MISSION

To protect public health and the environment through innovative and cost-effective wastewater and solid waste management and, in doing so, convert waste into resources such as recycled water, energy, and recycled materials.



RECYCLED WATER



GREEN ENERGY



RECYCLED MATERIALS

CORE VALUES

INTEGRITY

We are committed to ethical standards and accountability in our work

LEADERSHIP

We are committed to the advancement of excellence in wastewater and solid waste management

SERVICE

We are committed to reliable, responsive, and courteous service



Taking Water Recycling to the Next Level

In 2021, much of the western United States was still in the grip of a severe drought. Key reservoirs that Southern Californians rely on, such as Lake Oroville and Lake Mead, were at their lowest levels ever. From July 2020 to June 2021, California received the least amount of rainfall since people began keeping records.

Since 1962, the Sanitation Districts have been producing recycled water that provides a safe reliable, drought-resilient source of water for the region. Nonetheless, we are striving to do more. Recently, we completed a flow equalization project and a study of recycled water discharges needed to sustain river habitat. Both projects help to maximize water reuse.

Most of the cleaned water from 10 of our 11 wastewater treatment plants is beneficially reused—mainly for groundwater replenishment. Our last untapped source is the cleaned water produced by our Joint Water Pollution Control Plant (JWPCP). That water is too salty to reuse without advanced treatment.

The Regional Recycled Water Program (RRWP) would purify the treated water from the JWPCP and could provide enough water for 1.5 million people. The RRWP is now in its planning phase and could become one of the largest water recycling projects in the world.

FRONT COVER: Lake Oroville (July 2021) in Northern California was at its lowest level ever (photo courtesy California Department of Water Resources).

BACK COVER: Hay has been grown in Palmdale using recycled water for decades.

San Jose Creek Water Reclamation Plant recycles over 60 million gallons of water per day.

A MESSAGE FROM OUR CHIEF ENGINEER

The Road to Sustainability

Like the rest of society, COVID-19 continued to be a significant challenge for us in 2021. I am proud to report that we kept providing the same high-quality services despite COVID-19-related obstacles, such as staff being quarantined and delays in manufacturing and shipping. We continued to test for coronavirus in wastewater. The resulting data correlated well with community infection level and was shared with local, state and national public health officials to help them manage the pandemic. The California Governor included wastewater monitoring in the state's plans for moving forward. I continue to be grateful to our staff for their resilience, commitment and teamwork, which result in great service to the community.

Another big issue for Californians in 2021 was the ongoing drought and record-setting lack of rainfall. In the 2020/21 water year, California received the least amount of rainfall since people began keeping records in 1895. Lake Oroville and Lake Mead are reservoirs that Southern Californians rely upon and were at their lowest levels ever last year.

The Sanitation Districts have been producing recycled water since 1962. Much of this water is used to replenish our groundwater basins and reduce our reliance on water imported from Northern California and the Colorado River. Over that time, we have recycled over 1 trillion gallons of water, which is enough water to fill an 8-foot diameter pipe that circles the earth 20 times!

Nonetheless, we are working to do more. The previous page describes recent efforts to increase water recycling. The most notable is the Regional Recycled Water Program, which entered its environmental planning phase in 2021 and could become one of the largest recycled water programs in the world. More on this program is provided on page 13.

Another area where we continue to fulfill our mission of converting waste into resources is our growing food waste recycling program, which will significantly reduce greenhouse gases. This program was created to provide a cost-effective way for our member cities to divert organic waste from landfills as required in 2016's Senate Bill 1383. In 2021, we did extensive outreach to cities and waste haulers about this program whose requirements became effective January 1, 2022. For more on these efforts, see page 16.

So, despite the pandemic, we continued serving in a cost-effective and environmentally sound manner and made progress on a range of initiatives, both big and small. In 2022, I hope that we can put the pandemic behind us and create stronger professional and personal relationships through more face-to-face interactions.

Sincerely,



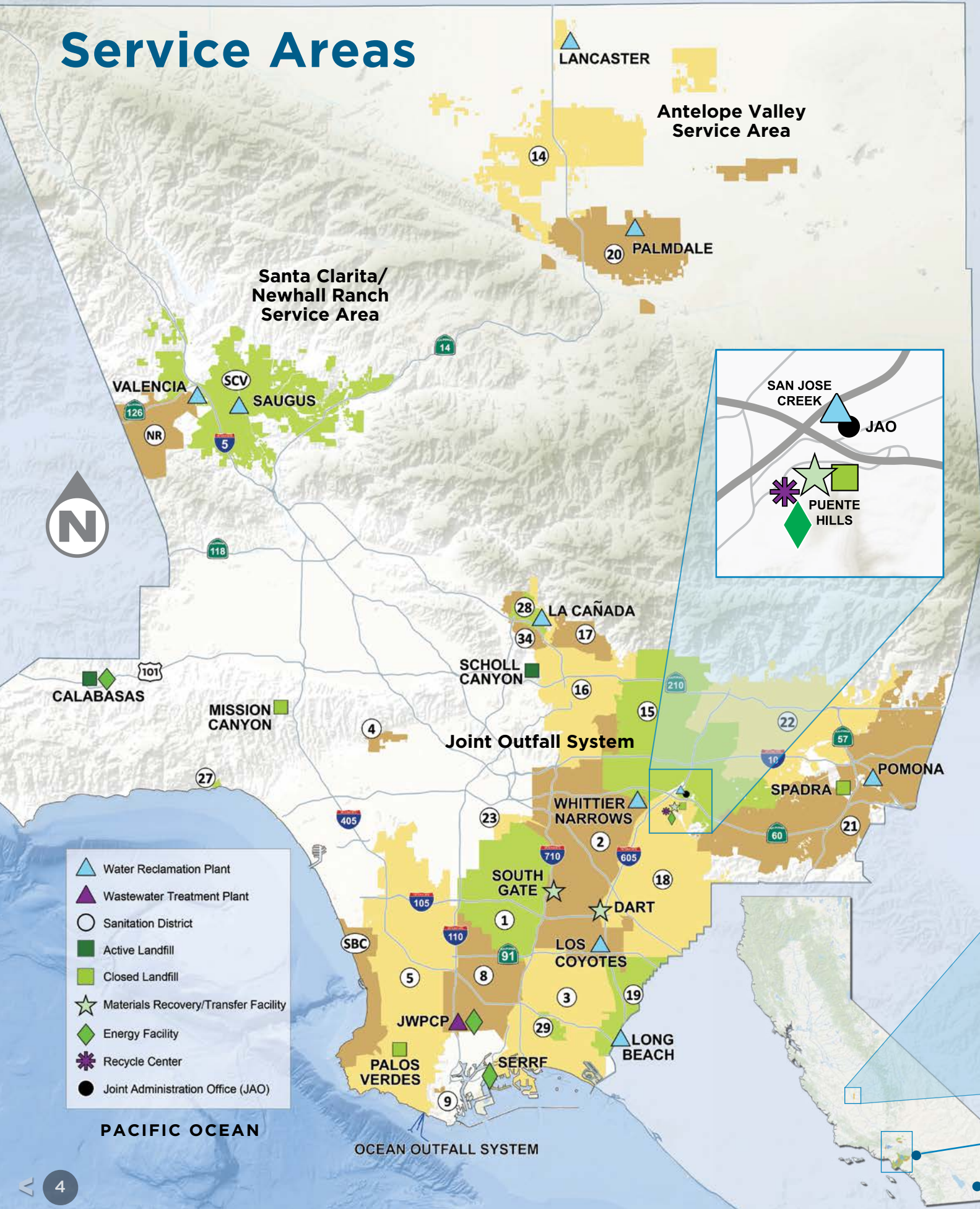
Robert C. Ferrante
Chief Engineer & General Manager



Boards of Directors (as of printing, March 25, 2022*)

Alhambra DIST. 2, 16	Jeffrey K. Maloney <i>Adele Andrade-Stadler</i>	Los Angeles County (unincorporated) DIST. 1, 3, 5, 18, 19 DIST. 2, 9, 15, 21, 22 DIST. 27, NR	Holly Mitchell; <i>Janice Hahn</i> Holly Mitchell; <i>Hilda Solis</i> Holly Mitchell; <i>Hilda Solis</i> ; Kathryn Barger; <i>Janice Hahn</i> ; <i>Sheila Kuehl</i> Holly Mitchell; <i>Kathryn Barger</i> Holly Mitchell; <i>Sheila Kuehl</i> Kathryn Barger; <i>Sheila Kuehl</i> Janice Hahn; <i>Hilda Solis</i>
Arcadia DIST. 15, 22	Sho Tay	Lynwood DIST. 1	Marisela Santana; <i>Jose Luis Solache</i>
Artesia DIST. 2, 18, 19	Ali Sajjad Taj; <i>Rene J. Trevino</i>	Manhattan Beach DIST. 5, SBC	Hildy Stern; <i>Steve Napolitano</i>
Azusa DIST. 22	Robert Gonzales; <i>Edward J. Alvarez</i>	Maywood DIST. 1	Heber Marquez; <i>Jessica Torres</i>
Baldwin Park DIST. 15, 22	Emmanuel J. Estrada <i>Monica Garcia</i>	Monrovia DIST. 15, 22	Tom Adams; <i>Becky A. Shevlin</i>
Bell DIST. 1, 2	Ali Saleh	Montebello DIST. 2, 15	Kimberly Ann Cobos-Cawthorne <i>Scarlet Peralta</i>
Bell Gardens DIST. 2	Maria Pulido; <i>Jorgel Chavez</i>	Monterey Park DIST. 2, 15	Henry Lo; <i>Fred Sornoso</i>
Bellflower DIST. 2, 3, 18	Raymond Dunton; <i>Sonny Santa Ines</i>	Norwalk DIST. 2, 18	Rick Ramirez; <i>Jennifer Perez</i>
Beverly Hills DIST. 4	Robert Wunderlich; <i>John Mirisch</i>	Palmdale DIST. 14, 20 DIST. 20 (2nd DIR)	Steven Hofbauer; <i>Austin Bishop</i> Richard J. Loa; <i>Austin Bishop</i>
Bradbury DIST. 15, 22	D. Montgomery Lewis <i>Richard Barakat</i>	Palos Verdes Estates DIST. 5, SBC	Victoria A. Lozzi <i>David McGowan</i>
Carson DIST. 8	Lula Davis-Holmes; <i>Jim Dear</i>	Paramount DIST. 1, 2	Brenda Olmos; <i>Vilma Cuellar Stallings</i>
Cerritos DIST. 2, 3, 18, 19	Grace Hu; <i>Bruce Barrows</i>	Pasadena DIST. 15, 16, 17	Victor Gordo
Claremont DIST. 21	Jed Leano; <i>Ed Reece</i>	Pico Rivera DIST. 2, 18	Monica Sanchez; <i>Gustavo Camacho</i>
Commerce DIST. 2	Leonard Mendoza; <i>Ivan Altamirano</i>	Pomona DIST. 21	Tim Sandoval; <i>Steve Lustro</i>
Compton DIST. 1, 2, 8	Emma Sharif; <i>Michelle Chambers</i>	Rancho Palos Verdes DIST. 5, SBC	David Bradley <i>Barbara Ferraro</i>
Covina DIST. 22	Jorge A. Marquez; <i>Patricia Cortez</i>	Redondo Beach DIST. 5, SBC	Bill Brand; <i>Zein Obagi, Jr.</i>
Cudahy DIST. 1	Elizabeth Alcantar; <i>Daisy Lomeli</i>	Rolling Hills DIST. 5	Jeff Pieper; <i>Patrick Wilson</i>
Culver City DIST. 5	Daniel Lee; <i>Albert Vera</i>	Rolling Hills Estates DIST. 5, SBC	Frank Zerunyan <i>Britt Huff</i>
Diamond Bar DIST. 21	Ruth Low; <i>Andrew Chou</i>	Rosemead DIST. 15	Polly Low; <i>Sean Dang</i>
Downey DIST. 2, 18	Blanca Pacheco; <i>Claudia Frometa</i>	San Dimas DIST. 21, 22	Emmett Badar; <i>Denis Bertone</i>
Duarte DIST. 15, 22	Margaret Finlay; <i>Tzeitel Paras-Caracci</i>	San Gabriel DIST. 2, 15	Tony Ding; <i>Denise Menchaca</i>
El Monte DIST. 15	Jessica Ancona; <i>Victoria Martinez</i>	San Marino DIST. 15, 16	Susan Jakubowski; <i>Ken Ude</i>
El Segundo DIST. 5, SBC	Drew Boyles; <i>Chris Pimentel</i>	Santa Clarita SCV SCV (2nd DIR)	Jason Gibbs; <i>Marsha McLean</i> Laurene Weste; <i>Marsha McLean</i>
Gardena DIST. 5	Tasha Cerda; <i>Paulette C. Francis</i>	Santa Fe Springs DIST. 18	Annette Rodriguez <i>Joe Angel Zamora</i>
Glendora DIST. 22	Karen Davis; <i>Michael Allawos</i>	Sierra Madre DIST. 15	Gene Goss
Hawaiian Gardens DIST. 19	Luis Roa; <i>Maria Teresa Del Rio</i>	Signal Hill DIST. 3 DIST. 29	Keir Jones; <i>Tina Hansen</i> Lori Y. Woods; <i>Robert Copeland</i> Edward H. J. Wilson; <i>Tina Hansen</i>
Hawthorne DIST. 5	Alex Vargas; <i>Alex Monteiro</i>	South El Monte DIST. 15	Gloria Olmos; <i>Richard Angel</i>
Hermosa Beach SBC	Michael Detoy; <i>Raymond Jackson</i>	South Gate DIST. 1, 2	Al Rios; <i>Maria Davila</i>
Huntington Park DIST. 1	Manuel Avila; <i>Karina Macias</i>	South Pasadena DIST. 16	Michael A. Cacciotti; <i>Jack Donovan</i>
Industry DIST. 15, 18, 21	Cory Moss	Temple City DIST. 15	Vincent Yu; <i>Cynthia Sternquist</i>
Inglewood DIST. 5	James T. Butts	Torrance DIST. 5, SBC	Patrick J. Furey; <i>Heidi Ann Ashcraft</i>
Irwindale DIST. 15, 22	Larry G. Burrola; <i>Albert F. Ambriz</i>	Vernon DIST. 1, 2 DIST. 23	Melissa Ybarra; <i>William J. Davis</i> Melissa Ybarra; <i>Judith Merlo</i> ; <i>Leticia Lopez</i> ; William J. Davis; <i>Crystal Larios</i>
La Cañada Flintridge DIST. 28, 34	Michael A. Davitt Jonathan C. Curtis; <i>Teresa Walker</i> Keith Eich; <i>Richard B. Gunter III</i>	Walnut DIST. 21, 22	Robert Pacheco; <i>Eric Ching</i>
La Habra Heights DIST. 18	Dennis Laherty; <i>Brian Bergman</i>	West Covina DIST. 15, 21, 22	Dario Castellanos; <i>Rosario Diaz</i>
La Mirada DIST. 18	Ed Eng; <i>Steve De Ruse</i>	West Hollywood DIST. 4	Lauren Meister; <i>Sepi Shyne</i>
La Puente DIST. 15, 21	Charlie Klinakis; <i>Valerie Munoz</i>	Whittier DIST. 2, 15, 18	Joe Vinatieri; <i>Cathy Warner</i>
La Verne DIST. 21, 22	Tim Hepburn; <i>Muir Davis</i>		
Lakewood DIST. 3, 19	Jeff Wood; <i>Steve Croft</i>		
Lancaster DIST. 14	R. Rex Parris; <i>Marvin Crist</i>		
Lawndale DIST. 5	Robert Pullen-Miles; <i>Pat Kearney</i>		
Lomita DIST. 5	Cindy Segawa; <i>James Gazeley</i>		
Long Beach DIST. 1, 2, 3, 8, 19	Robert Garcia		
Los Angeles City DIST. 1, 2, 3, 4, 5, 8, 9, 16	Nury Martinez <i>Joe Buscaino</i>		

Service Areas



Who We Are

The Sanitation Districts consist of 24 independent special districts serving about 5.5 million people in Los Angeles County. The service area in the map to the left covers approximately 850 square miles and encompasses 78 cities and unincorporated areas in the county.

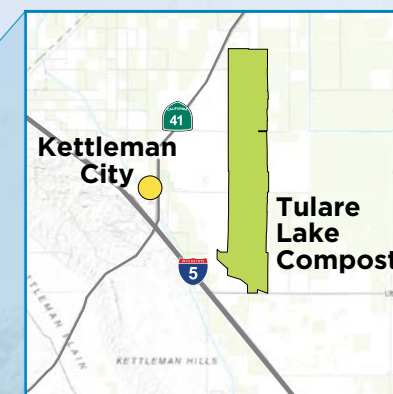
The Sanitation Districts were created in 1923 to construct, operate and maintain facilities that collect, treat and dispose of domestic and industrial wastewater. The Sanitation Districts own, operate and maintain the larger, regional wastewater collection systems, while cities and unincorporated areas within each district are

responsible for their smaller local collection systems (except for Signal Hill, whose local collection system is owned by Sanitation District No. 29). In the 1950s, the Sanitation Districts were given responsibility for solid waste management (excluding trash pickup). In 2016, the Sanitation Districts were also given the authority to help cities and unincorporated areas in Los Angeles County manage stormwater.

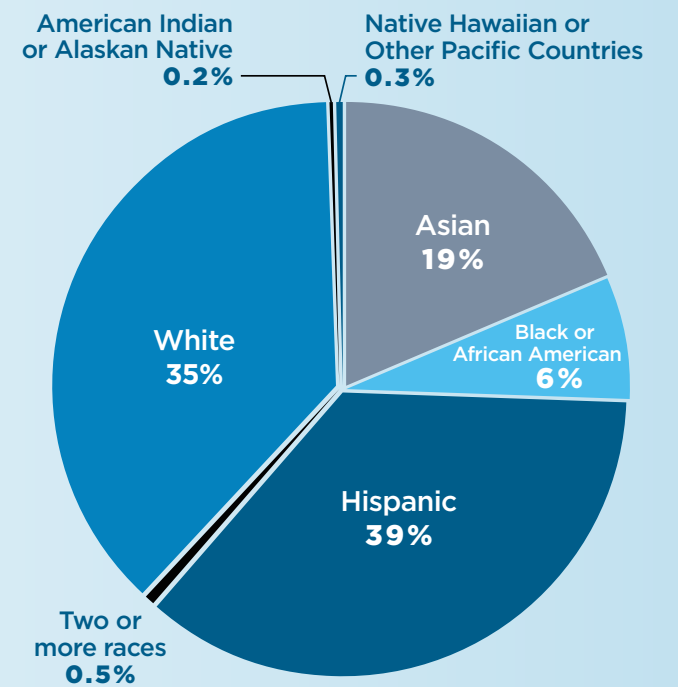
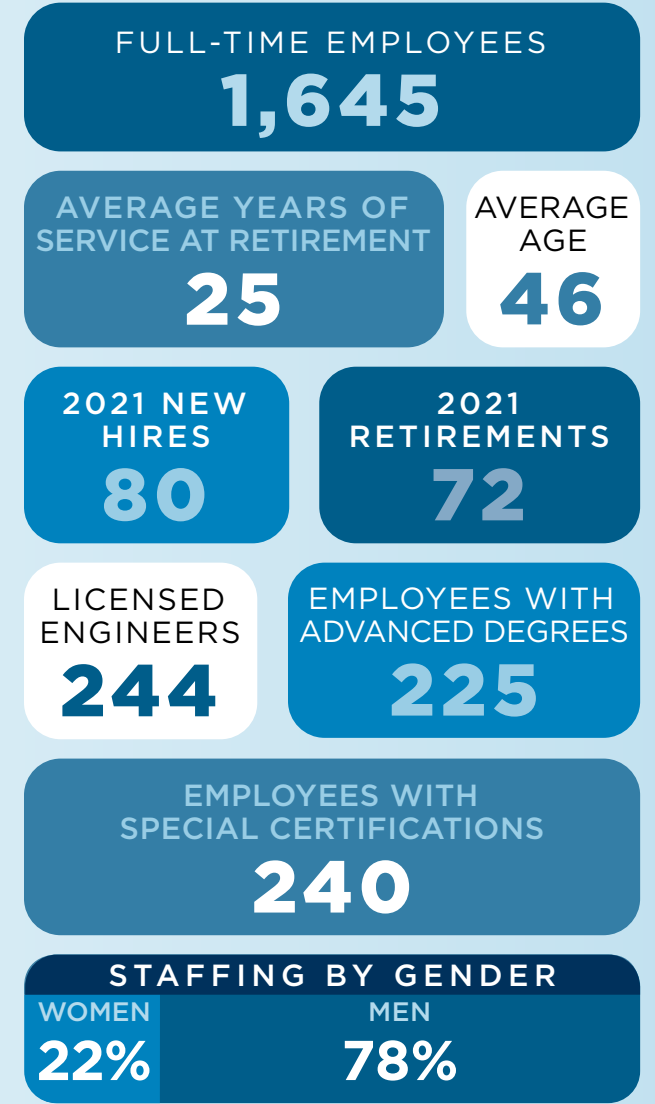
SERVING
5.5 million people
850 square miles
78 cities

To maximize efficiency and reduce costs, the 24 Districts work cooperatively with one administrative staff headquartered near the intersection of the 60 and 605 freeways, north of Whittier. Each District has a Board of Directors consisting of the mayor of each city served and the Chair of the County Board of Supervisors for unincorporated territory. Each District pays its proportionate share of administrative costs.

Overall wastewater and solid waste management budgets for 2020-21 were \$720 million and \$172 million, respectively. Both systems provide essential public services at some of the most competitive service rates in the country.



Inland Empire Regional Composting Facility
Mesquite Regional Landfill



Numbers as of Dec. 31, 2021

What We Do

WASTEWATER

We collect, treat and recycle the wastewater (sewage) from 5.5 million people in Los Angeles County. Our wastewater system currently treats about 400 million gallons per day, enough to fill the Rose Bowl nearly five times a day. This system includes 11 wastewater treatment plants, 48 pump stations, over 1,400 miles of sewer, and two state-of-the-art composting facilities for managing the solids removed during treatment.



1,156,000,000,000
Over 1 trillion gallons of water recycled since 1962

SOLID WASTE

Our solid waste management system accommodates about one fifth of the county's solid waste. We manage the waste hauled to us with a system that includes two active landfills, three materials recovery/transfer facilities, and a recycle center. We also have infrastructure for a waste-by-rail system to handle the county's waste in the future when local disposal options are exhausted.



120,000
tons of recyclable materials

GREEN ENERGY

The Sanitation Districts are one of the country's leading producers of green energy. Some of the electricity is used in powering Sanitation Districts' operations; the rest is exported to the local grid, which reduces the power that utilities must produce and thereby reduces greenhouse gas emissions.



75 megawatts produced:
enough for 75,000 homes

Our Organization

CHIEF ENGINEER & GENERAL MANAGER

Robert C. Ferrante

ASSISTANT CHIEF ENGINEER & ASSISTANT GENERAL MANAGER

Charles E. Boehmke

DEPARTMENTS & SECTIONS

ENGINEERING	FACILITIES PLANNING	FINANCIAL MANAGEMENT	HUMAN RESOURCES	SOLID WASTE MANAGEMENT	TECHNICAL SERVICES	WASTEWATER MANAGEMENT
Construction Management	Information Technology	Accounting	Employee Benefits	Energy Recovery	Air Quality	Industrial Waste
Electrical & Instrumentation Design	Planning & Property Management	Budget & Finance	Employee Relations	Fleet Management	Environmental Health & Safety	Joint Water Pollution Control Plant
Sewer Design	Public Information	Purchasing & Risk Management	Employment Services	Solid Waste Operations & Engineering	Laboratories	Wastewater Collection Systems
Structural, Architectural, & Geotechnical Design	Wastewater Planning		Payroll		Legislative & Regulatory Programs	Water Reclamation Plants
Civil & Mechanical Design			Training & Development		Reuse & Compliance	
					Wastewater Research	
					Water Quality	

ENGINEERING

Design and construction oversight of Sanitation Districts' facilities

FACILITIES PLANNING

Long range planning, environmental review, environmental permitting, property management, information technology, public relations, security, facilities management, and document management

FINANCIAL MANAGEMENT

Budgeting, accounting, purchasing, revenue collection, and insurance

HUMAN RESOURCES

Hiring employees, payroll, benefits, and compliance with State and Federal employment laws

SOLID WASTE MANAGEMENT

Operation and maintenance of the solid waste management facilities and energy recovery facilities

TECHNICAL SERVICES

Water recycling, biosolids management, water and air permit compliance reporting, wastewater and solid waste research, laboratory processes, regulatory and legislative advocacy, and worker health and safety

WASTEWATER MANAGEMENT

Operation and maintenance of wastewater management facilities and regulating industrial discharges to the Sanitation Districts' sewer system

Carrying Out Our Mission Despite COVID-19

COVID-19 continued to be a huge issue for the agency. However, we carried out our mission and provided high-quality service despite the challenges caused by COVID-19 including significant supply-chain disruptions.

We continued to monitor for coronavirus genetic material (RNA) in the wastewater coming into our largest treatment plant. The results are shared with local and state health officials as well as the Centers for Disease Control and Prevention to help them manage the pandemic.

We worked with our unions to finalize a new telework policy before the end of June 2021. This policy is ready to go into effect once the pandemic has subsided enough for staff that was working from home to fully redeploy to working from the office.



Maintenance and construction crew working on primary treatment sludge collector

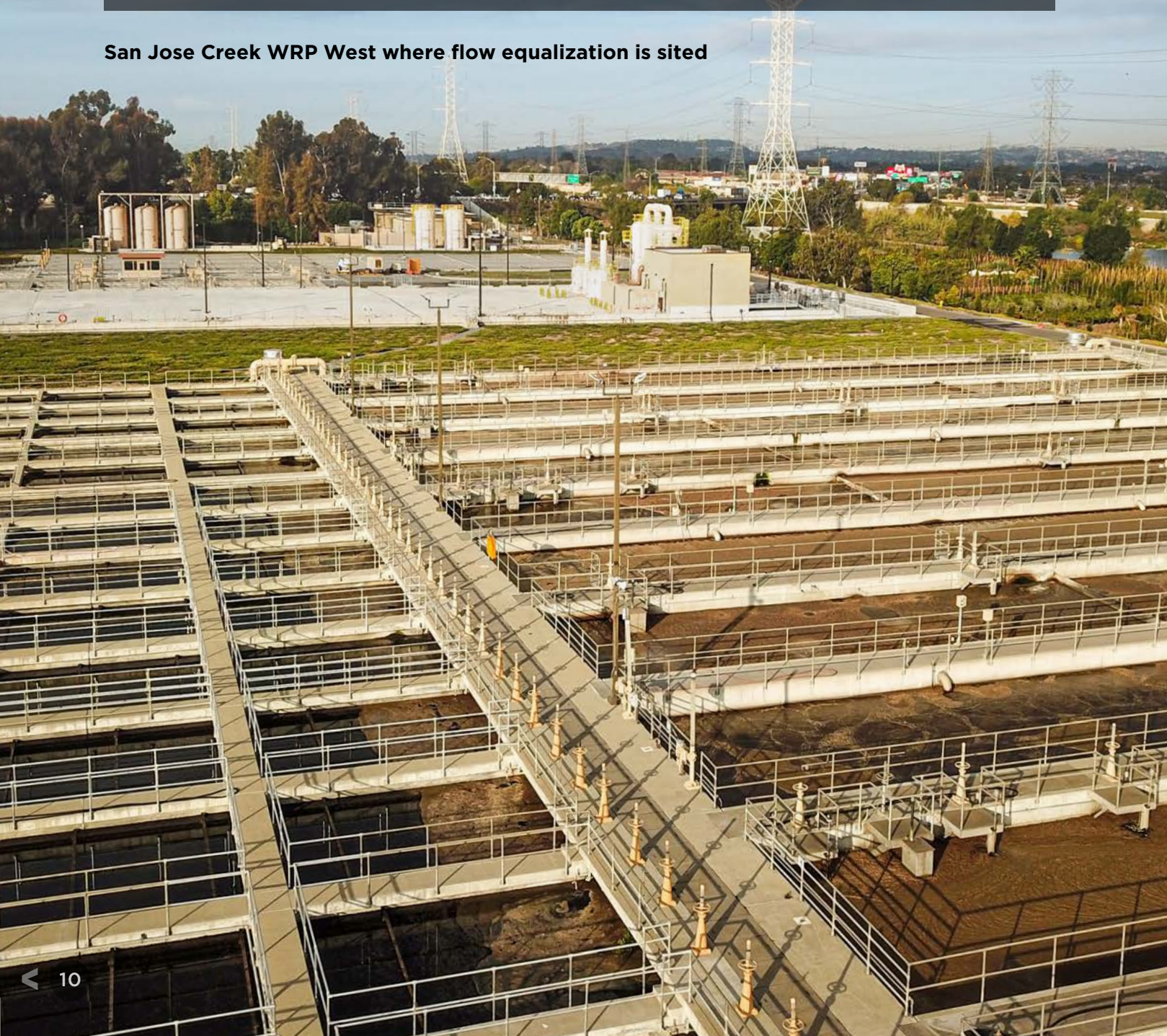
Optimizing Treatment

We have been operating the new flow equalization (FEQ) system at the San Jose Creek Water Reclamation Plant for over a year and are seeing the benefits in operations. The FEQ system consists of two 4-million-gallon underground tanks that are used to reduce flow variability in the plant's biological treatment process.

With the FEQ system, the biological treatment process works more efficiently, which has enabled the plant to treat more flow while consistently meeting ammonia removal requirements. As a result, we are no longer bypassing flows around the plant and are now producing 20 percent more recycled water. We are also producing a greater percentage of our recycled water overnight when the demand for recycled water is highest.

A potential future benefit of FEQ is more energy-efficient operations. The largest energy users at the plant are air compressors that add air into the biological treatment process. By reducing the flow variability of the biological process, air compressors may be operated in a more economical manner thereby reducing energy use.

San Jose Creek WRP West where flow equalization is sited



New Ways to Build Facilities

Traditionally, we have constructed facilities using the design-bid-build approach, where one phase is completed before another phase is begun. We are now building two projects using a design-build method called the Energy Service Company (ESCO) process, where construction begins before design is complete. We can use this process for projects that result in significant operational energy savings.

With this approach, we hire an ESCO firm to design and construct the facility with our input and the firm guarantees cost and energy savings that pay for the project in less than 25 years. Other advantages include faster project completion times and the flexibility to hire a designer and contractor based on qualifications when the project requires special expertise. Also, since the ESCO handles most of the design work, this approach can help our design staff manage their workload.

We will continue to evaluate ESCO and other design-build processes to help deliver projects as efficiently as possible. These alternative delivery approaches aren't a fit for every project and we anticipate using the traditional design-bid-build for most construction projects.

Construction of a cryogenic facility at JWPCP using the ESCO process



Regional Recycled Water Program Reaches Important Milestones

In 2021, the Sanitation Districts and the Metropolitan Water District of Southern California (MWD) reached additional important milestones in their partnership that could produce enough purified water for 500,000 homes. The first phase of water purification technology testing was successfully completed in 2021, and a new round of testing will begin in early 2022. Teams were assembled for environmental review, preliminary design and public outreach, and those efforts have begun. Many options were evaluated for removing nutrients (such as nitrogen) from the cleaned water produced by the JWPCP. Options will be tested at full scale in 2022 and a decision on nutrient management is expected by the end of 2022. Last, the Sanitation Districts and MWD have been evaluating ways to shorten the program's schedule.

Drawing samples at the advanced treatment demonstration facility

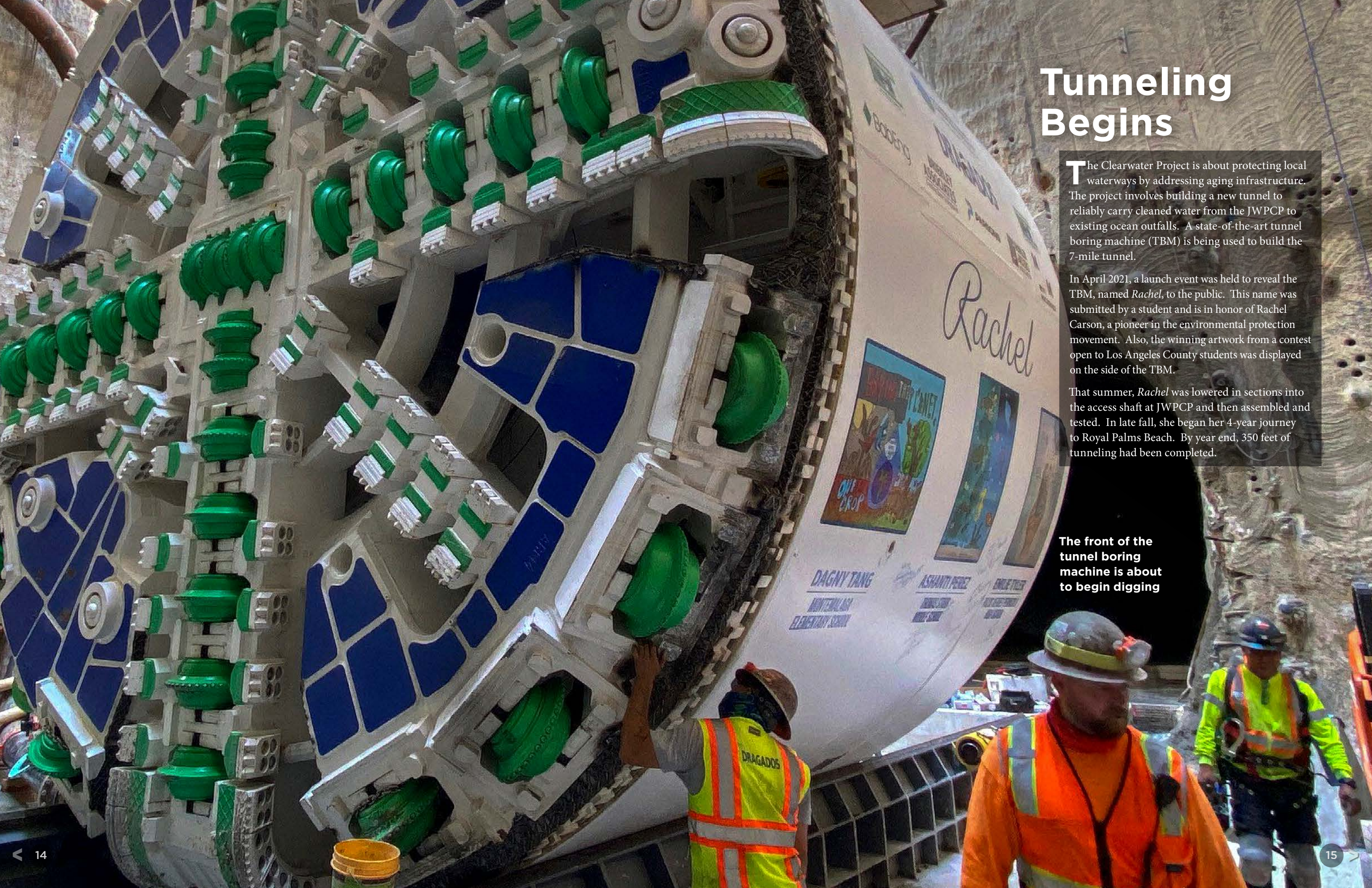
Tunneling Begins

The Clearwater Project is about protecting local waterways by addressing aging infrastructure. The project involves building a new tunnel to reliably carry cleaned water from the JWPCP to existing ocean outfalls. A state-of-the-art tunnel boring machine (TBM) is being used to build the 7-mile tunnel.

In April 2021, a launch event was held to reveal the TBM, named *Rachel*, to the public. This name was submitted by a student and is in honor of Rachel Carson, a pioneer in the environmental protection movement. Also, the winning artwork from a contest open to Los Angeles County students was displayed on the side of the TBM.

That summer, *Rachel* was lowered in sections into the access shaft at JWPCP and then assembled and tested. In late fall, she began her 4-year journey to Royal Palms Beach. By year end, 350 feet of tunneling had been completed.

The front of the tunnel boring machine is about to begin digging



Helping Our Member Cities with Organics Recycling

Our program to recycle food waste into green energy continued to grow as we prepared for the state's January 2022 deadline that cities divert organic material from landfills. We have been building a cost-effective program by mostly using existing infrastructure.

In 2021, we added a program where haulers can bring bagged food waste mixed with green waste to the Puente Hills Materials Recovery Facility or Scholl Canyon Landfill. This option joins our prior programs where haulers can bring source-separated food waste or food waste that has been pre-processed and liquified.

At our JWPCP, we added a receiving station last year and are close to finishing a second one, which will increase our ability to accept food waste. We recycle much of the food waste into vehicle fuel that is served at the fueling station adjacent to the JWPCP. In 2022 and 2023, this fueling station will be tripled in size to handle more vehicles per day and the increased amount of fuel we are producing.



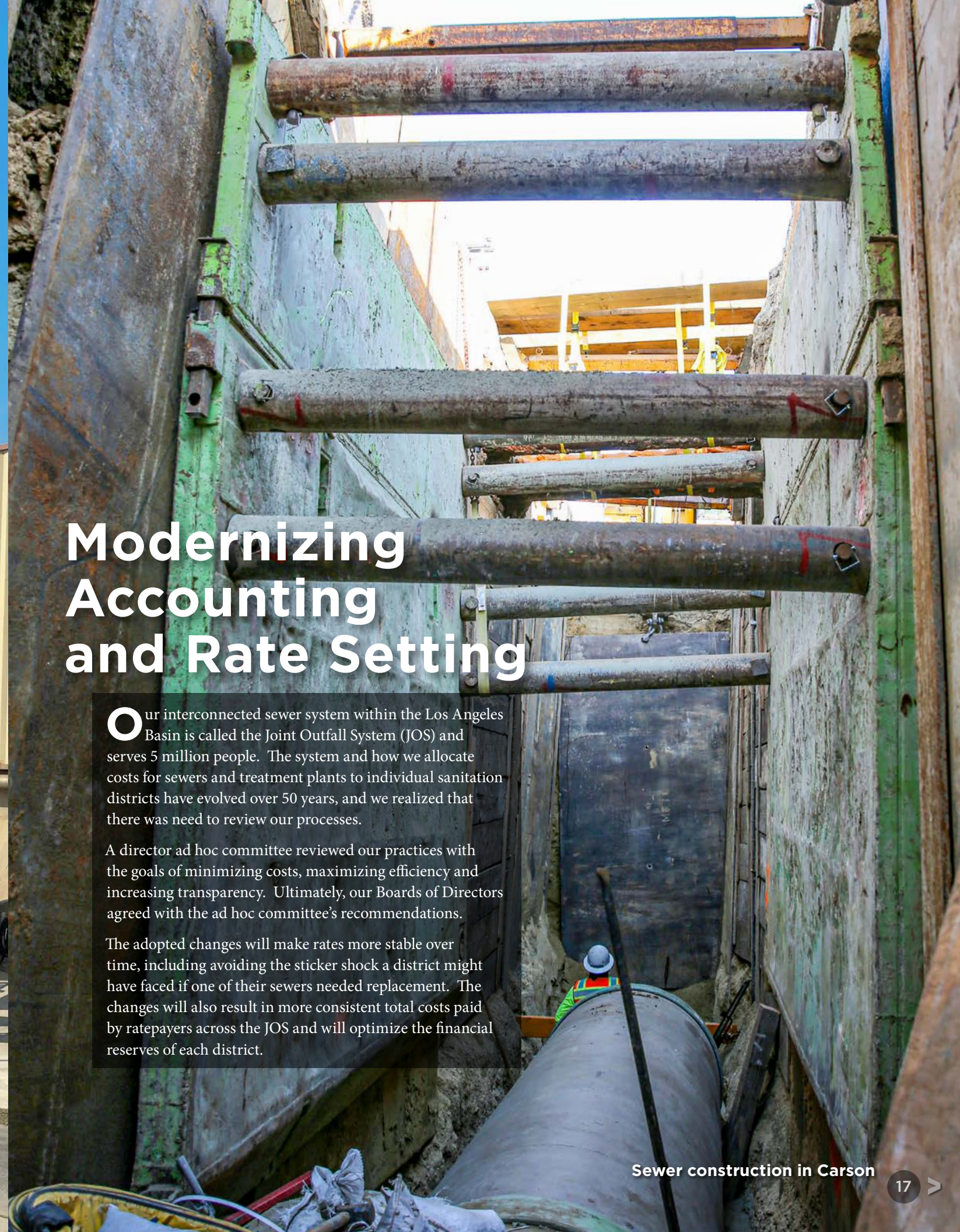
Food waste receiving station

Modernizing Accounting and Rate Setting

Our interconnected sewer system within the Los Angeles Basin is called the Joint Outfall System (JOS) and serves 5 million people. The system and how we allocate costs for sewers and treatment plants to individual sanitation districts have evolved over 50 years, and we realized that there was need to review our processes.

A director ad hoc committee reviewed our practices with the goals of minimizing costs, maximizing efficiency and increasing transparency. Ultimately, our Boards of Directors agreed with the ad hoc committee's recommendations.

The adopted changes will make rates more stable over time, including avoiding the sticker shock a district might have faced if one of their sewers needed replacement. The changes will also result in more consistent total costs paid by ratepayers across the JOS and will optimize the financial reserves of each district.



Sewer construction in Carson

Adapting Our Treatment Plants

Our wastewater (sewage) treatment plants are decades old and have been upgraded and modified over time to meet the changing effluent quality requirements of state and federal agencies. Some upgrades, like nutrient removal and disinfection improvements, have resulted in a reduction of treatment capacity.

Water conservation has led to a decrease in flows to our wastewater treatment plants. While flows have decreased, the amount of pollutants (i.e., pounds per day) has slightly increased with population growth. As a result, we receive wastewater with more concentrated pollutants that is more difficult to treat. Finally, ongoing research is identifying new chemicals in wastewater that may be harmful to the environment. Removing these chemicals of emerging concern may require new treatment processes.

To provide high-quality service and protect public health in the coming decades, we are investigating how to modify our plants to address these issues.

Biological treatment at San Jose Creek Water Reclamation Plant



Our Greenhouse Gas Stewardship

For decades, the Sanitation Districts and its partners have undertaken activities that reduce greenhouse gas (GHG) emissions to help protect the environment and provide a more sustainable world. Most of these initiatives produce green power, which reduces use of fossil fuels, a main contributor to global GHG emissions. Another key initiative is recycling water, which reduces the need to import water and the associated energy required to import water, the largest energy use in the State of California. The seven biggest initiatives are presented below and discussed in a document called *Reducing Our Carbon Footprint: The Sanitation Districts' Greenhouse Gas Reduction Initiatives* (available at lacsdc.org/GHG).

The Sanitation Districts are proud to announce we have achieved carbon neutrality for the 2021 calendar year. We continue to look for more ways to reduce GHG emissions and help make Los Angeles County more sustainable.



Puente Hills Energy Recovery Facility converts biogas recovered from the landfill into green energy

GHG reduction initiative	GHG avoided in MTCO ₂ e*	Equivalent to avoidance of
BIOGAS-TO-ELECTRICITY	190,000	annual emissions produced by providing energy for 23,000 homes
ALTERNATIVE FUELS	3,400	annual emissions of 730 passenger vehicles
COMMODITIES RECYCLING	59,000	use of 6 million gallons of diesel
WATER RECYCLING	52,000	130 million miles driven by cars
BIOSOLIDS MANAGEMENT	2,500	conversion of 17 acres of forest to cropland
FOOD WASTE DIVERSION	42,000	5 million gallons of gasoline burned
GREEN WASTE DIVERSION	14,000	burning 15 million pounds of coal

*Metric tons of CO₂ equivalent avoided in 2021

Connecting With Our Community

Community engagement helps us understand the public's needs so that we can provide better service. The pandemic forced us to cancel in-person outreach, but we responded with live tours via Zoom and attendance has been higher than ever.

A variety of guest speakers, each with their own expertise, have given virtual tours of the Bixby Marshland. Virtual tours for several other Sanitation Districts facilities and programs were also given in 2021. Recordings of these tours are available on our YouTube Channel and serve as an on-demand educational resource.



TOURS OF BIXBY MARSHLAND

166 PARTICIPANTS
IN 6 IN-PERSON TOURS

410 PARTICIPANTS
IN 6 VIRTUAL TOURS

TOURS OF OUR FACILITIES

298 PARTICIPANTS
IN 5 IN-PERSON TOURS

1,798 PARTICIPANTS
IN 8 VIRTUAL TOURS



69 HOUSEHOLD HAZARDOUS AND ELECTRONIC WASTE COLLECTION EVENTS

48,783 HOUSEHOLDS SERVED



64 CLEARWATER PROJECT EVENTS

1 LAUNCH EVENT

47 SCHOOL PRESENTATIONS

16 COMMUNITY PRESENTATIONS

ACTIVE ENGAGEMENT THROUGH SOCIAL MEDIA



1,930
FOLLOWERS



1,237
FOLLOWERS



1,223
FOLLOWERS



302
SUBSCRIBERS

STUDENTS PARTICIPATING IN SEWER SCIENCE

1,004
AT 42 IN-PERSON CLASSES

2021 Awards & Achievements

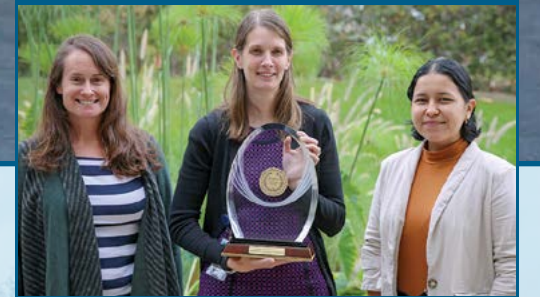


AMERICAN
ACADEMY
OF ENVIRONMENTAL ENGINEERS & SCIENTISTS®

SUPERIOR ACHIEVEMENT
SUSTAINABLE GREEN FLEET • CLEAN FUEL FOR LA TODAY

CWEA

ENGINEERING ACHIEVEMENT
CARSON'S CARRIAGE CREST STORMWATER CAPTURE PROJECT



GRAND PRIZE
SAN GABRIEL RIVER WATERSHED PROJECT TO REDUCE RIVER DISCHARGE IN SUPPORT OF INCREASED RECYCLED WATER REUSE



ALFONSO VASQUEZ
Los Angeles Basin Section Operator of the Year

MARIA ROSALES-RAMIREZ

Community Engagement and Outreach Person of the Year

SAMI HUNKLER

Outstanding Young Professional of the Year



COMMUNITY ENGAGEMENT AND OUTREACH: PROJECT OF THE YEAR - LARGE 2021

CONNECTING WITH OUR COMMUNITY DURING COVID-19

RESEARCH ACHIEVEMENT
PILOT-SCALE EVALUATION OF THE MEMBRANE-AERATED BIOFILM REACTOR PROCESS AT THE WHITTIER NARROWS WRP

NACWA
THE VOICE FOR A CLEAN WATER FUTURE

PLATINUM AWARDS

LOS COYOTES WRP
10 YEARS

LANCASTER WRP
6 YEARS

WHITTIER NARROWS WRP
5 YEARS

GOLD AWARDS

JOINT WATER POLLUTION CONTROL PLANT

LA CAÑADA WRP
LONG BEACH WRP

PALMDALE WRP
POMONA WRP

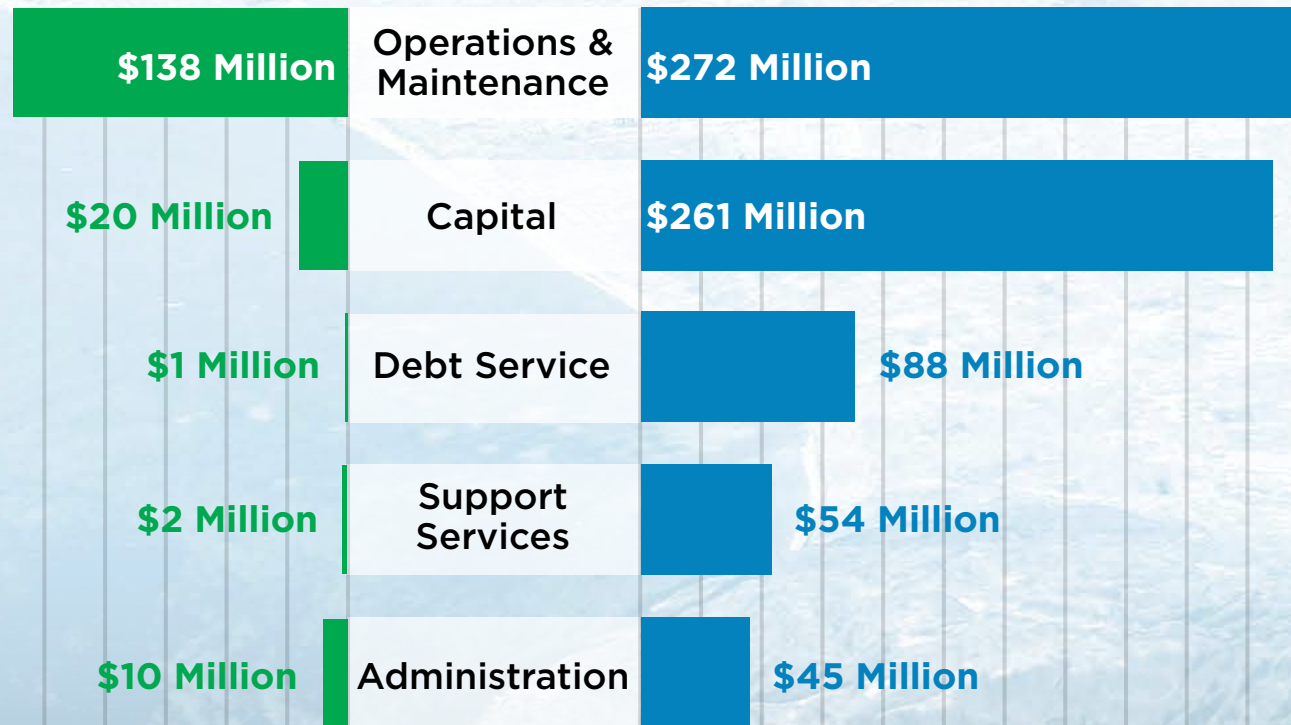
SAN JOSE CREEK WRP WEST

The Financial Landscape

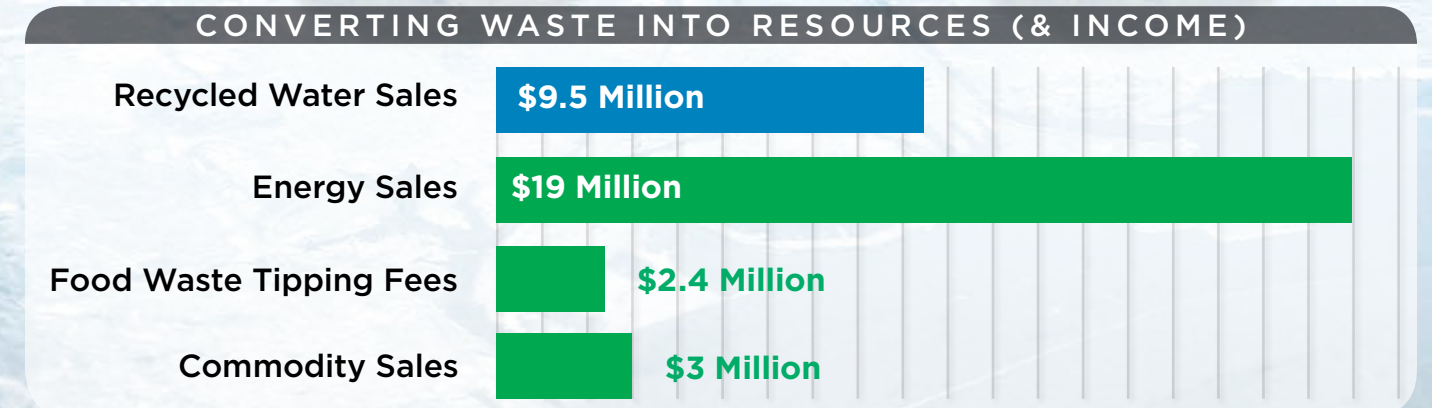
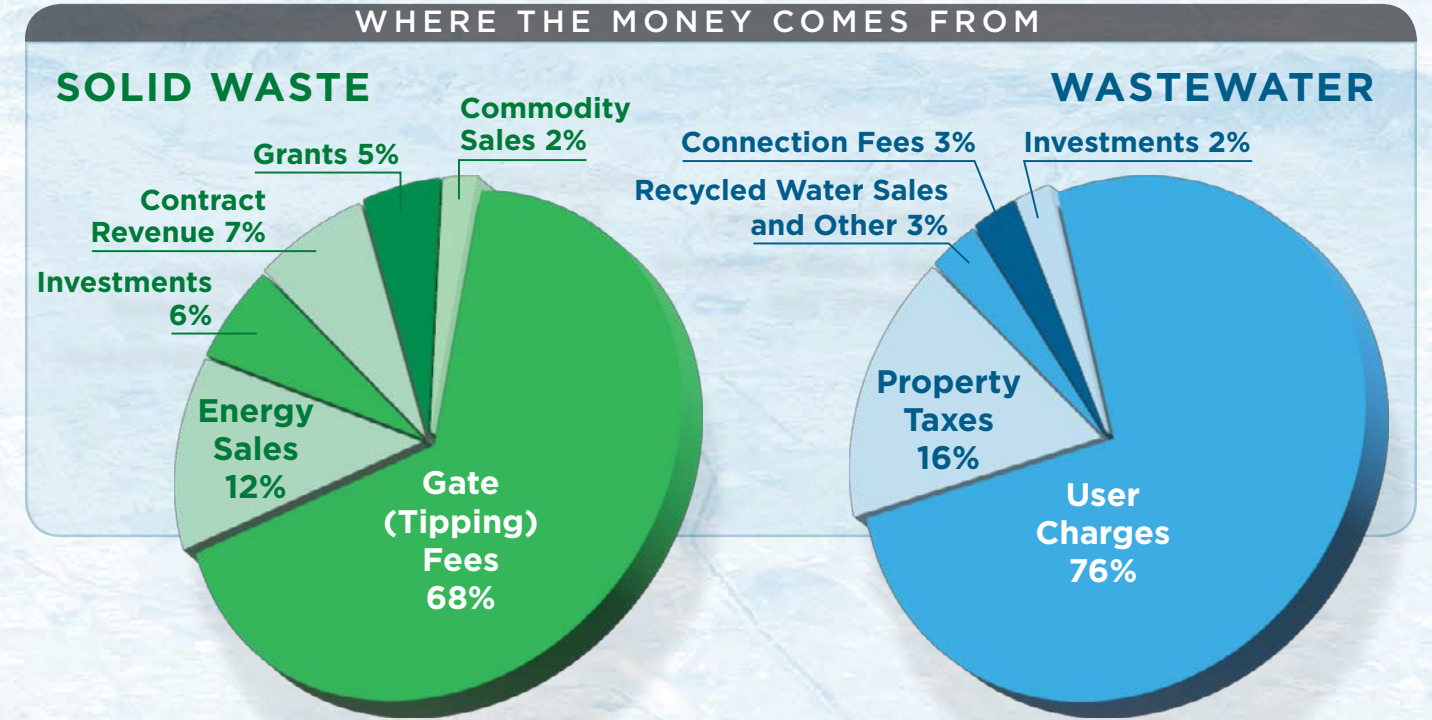
Fiscal Year 2020-21

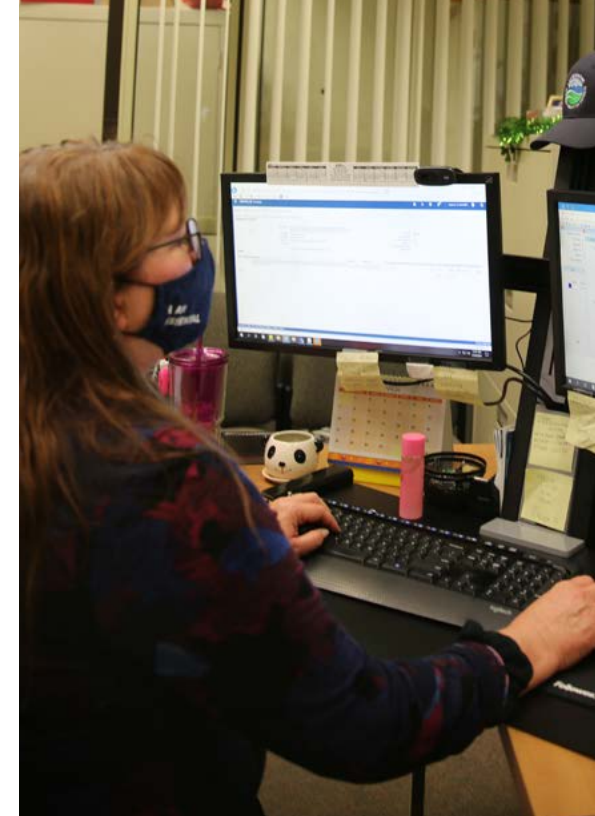


SOLID WASTE



WASTEWATER





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