

ANNUAL REPORT 2023

# Creating Opportunity

## Through Essential Public Service



**Director's Message**

**Our Organization**

**Creating Opportunity**

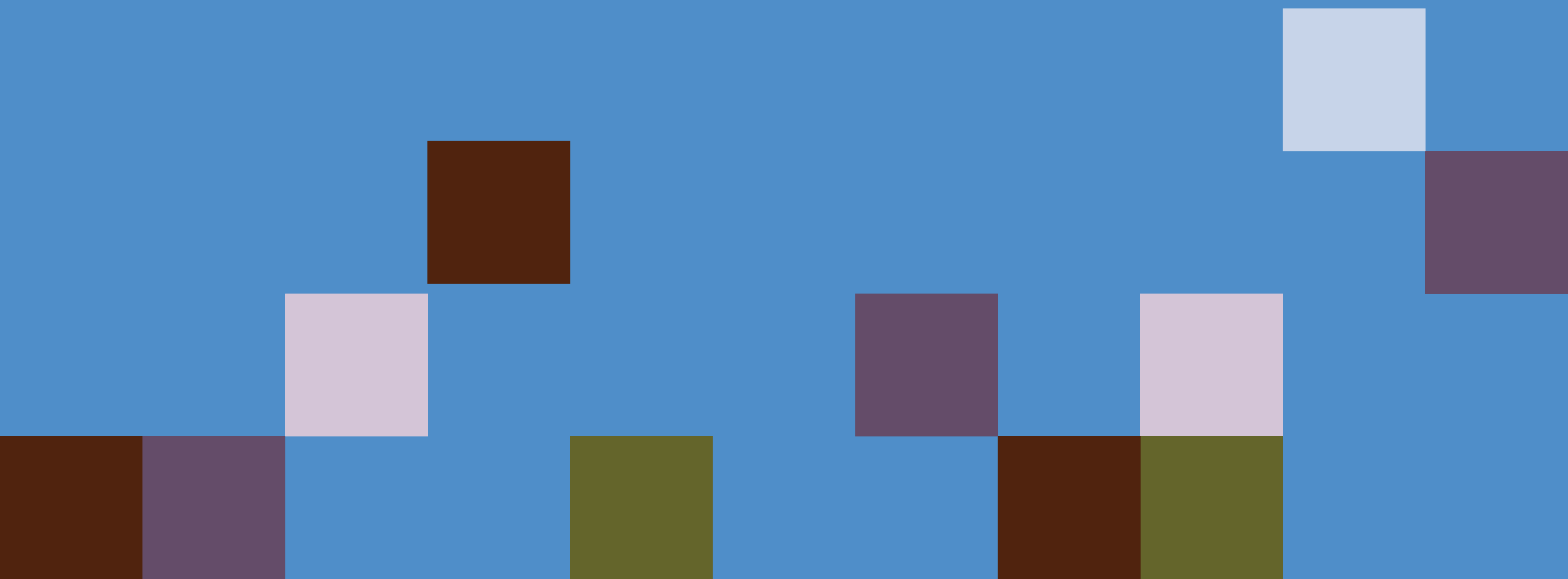
**Advancing the Vision for OC**

**Community Collaboration**

**Legislation**

**Year in Review**

**10-Year Financial Forecast**





# Director's Message

Hello, I'm Tom Koutroulis, Director of OC Waste & Recycling. After more than 30 years in the waste and recycling industries, I can say with confidence, there's no shortage of challenges doing what we do. But for the right team, challenge creates opportunity.

At OC Waste & Recycling, we're no strangers to legislative, environmental, and regulatory pressures that come with providing essential public services to our 34 cities, County unincorporated areas, and 3.2 million residents. Regardless, this past year has been a transformative one, as we've tackled industry hurdles head-on, to reshape our ways and build a sustainable future in OC.



I can proudly announce that in 2023 we've met the initial directives of Senate Bill 1383, for both residential and commercial organics compliance programs within our County unincorporated jurisdictions. That means residents and businesses in these areas all have an organics recycling service option to ensure food and green waste is recycled, rather than buried as waste.

We're pleased to share that we've also exceeded the state mandated 2023 procurement requirements for recycled organic waste products such as compost and mulch, by providing these nutrient-rich byproducts free to our communities. Together, we've repurposed nearly 7,500 tons of compost and mulch for beneficial reuse this past year.

Our strategic local market development plan has been instrumental in meeting state targets, with our community compost program fostering direct partnerships across 24 cities, four county agencies, water districts, special districts, transportation agencies, landscapers, the Agriculture Commissioner, and more.



The procurement milestone wouldn't have been possible without completion of our Phase 1 county-wide organics composting system. Valencia Greenery in Brea, Bee Canyon Greenery in Irvine and Capistrano Greenery in San Juan Capistrano allow us to better serve the needs of our region. Through OC's greeneries, we're not only executing a new kind of circular economy with compost and mulch, we're creating green jobs and building the unprecedented infrastructure to support these essential services for years to come.

We continue ongoing initiatives for mattress, appliance, scrap metal recycling and other pilot programs to conserve valuable landfill space while recycling a significant amount of diverted material. Meanwhile, our habitat restoration efforts continue to protect and provide sanctuaries for native wildlife, further preserving our natural resources.

Investing in the recycling and environmental education of our residents, families and businesses remains a priority. We are steadfast in our goal to grow in-house expertise in what we do. We're investing in best available technologies for operational efficiency. And we're well on our way to expanding County infrastructure through Phase 2 of our vision.

While compliance is crucial, we're not content meeting standards; we aim to set them. We look forward to fostering more efficient partnerships across municipalities, regulators, and legislative officials to create a sustainable future for generations. We know it won't be easy. But we're up for the challenge.

**Thank you for your support.**



# Our Organization



## Mission

The mission of OC Waste & Recycling is to provide waste management services, protect the environment, and promote recycling to ensure a safe and healthy community for current and future generations.



## Vision

A landfill and resource recovery system that safely manages waste, recycles resources and protects the environment for Orange County residents and businesses.

## Board of Supervisors

Effective January 2024



**Donald P. Wagner**  
 Chairman, Third District



**Doug Chaffee**  
 Vice Chairman, Fourth District



**Andrew Do**  
 First District



**Vicente Sarmiento**  
 Second District



**Katrina Foley**  
 Fifth District

# Waste Management Commission

The Waste Management Commission serves as an advisory body to the Orange County Board of Supervisors, providing recommendations on matters related to municipal solid waste and hazardous waste management, including the operation and upkeep of the County's landfills and associated facilities within its solid waste disposal and greeneries systems.

Effective January 2024



**Kimberly Ho**  
 Chairwoman, First District



**Ted Bui**  
 Vice Chairman, First District\*



**Colin Edwards**  
 First District



**Gloria Alvarado**  
 Second District



**Arianna Barrios**  
 Second District\*



**Lee Fink**  
 Second District



**Beth Haney**  
 Third District\*



**Isabell Kerins**  
 Third District



**Rajat Khurana**  
 Third District



**Christine Marick**  
 Fourth District\*



**Bethany Ring**  
 Fourth District



**Tamara Wallace**  
 Fourth District



**Kelly Golden**  
 Fifth District



**Joe Soto**  
 Fifth District



**John Taylor**  
 Fifth District\*



**Jennifer Cervantez**  
 City Manager Representative



**David Shawver**  
 At Large



**Tom Koutroulis**  
 OC Waste & Recycling, Director

\* City Selection Appointee



## Our Leadership Team

In 2023, OC Waste & Recycling fortified its primary organizational pillars to include Operations, Compliance, Customer Service and Sustainability. Our new Sustainability pillar underscores the County's focus on fostering new strategic partnerships between local municipalities, businesses, and other stakeholders. Through proactive collaboration, our region is better positioned to leverage state and federal funding opportunities to elevate public services, while ensuring environmental integrity remains at the forefront of our initiatives. This synergy enables us to deliver the most comprehensive and innovative solutions that not only meet but exceed the evolving needs of our community.



**Jorge Hernandez**  
 North Region Deputy Director



**David Tieu**  
 Central Region Deputy Director



**Hany Ahmed**  
 South Region Deputy Director



**Jeff Southern**  
 Safety & Operational  
 Procedures Deputy Director



**Julian Sabri**  
 Compliance Support  
 Deputy Director



**Lisa Smith**  
 Business Services & External  
 Affairs Deputy Director

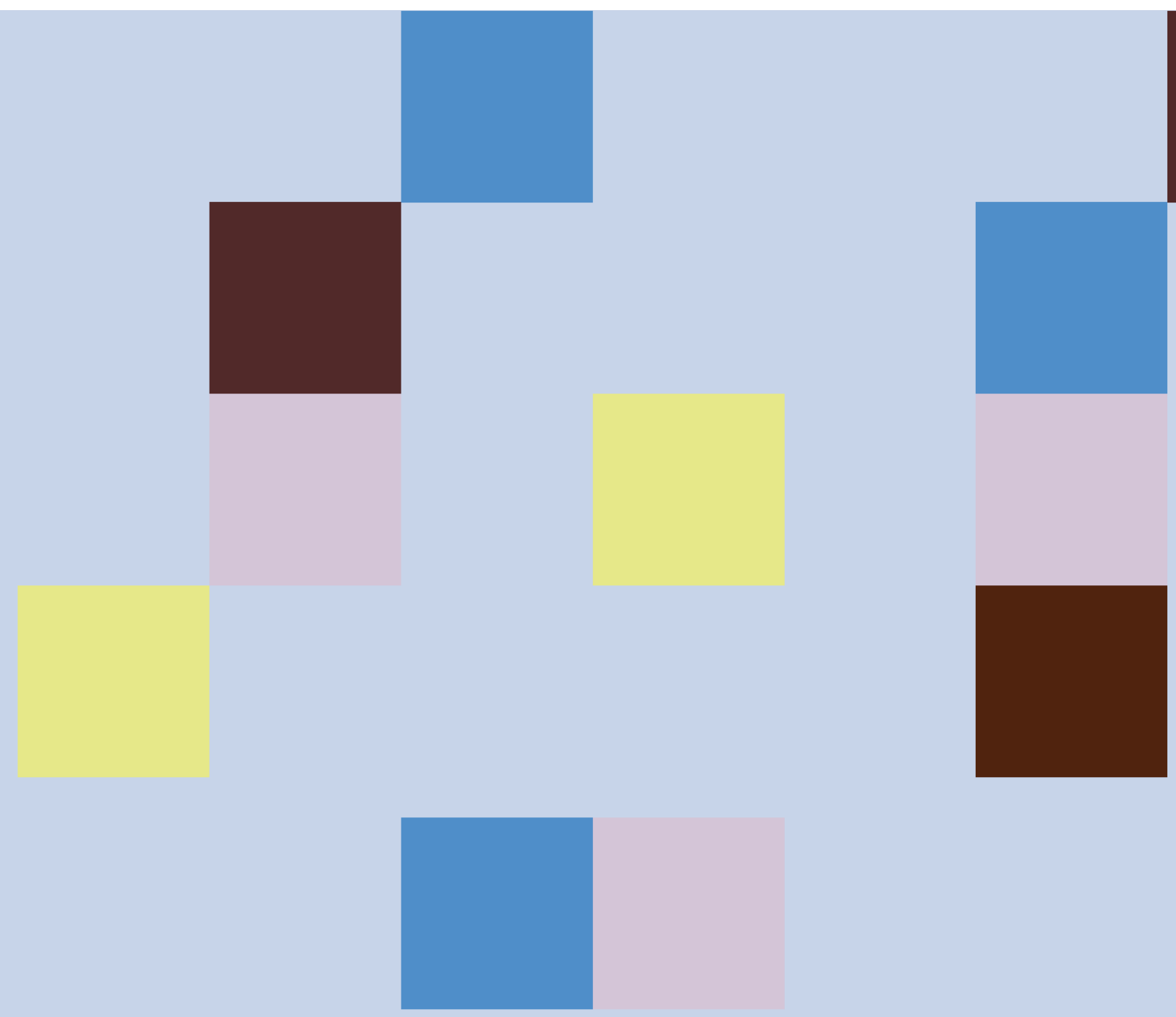


**Tara Tisopulos**  
 Sustainability Deputy Director



## Operations

Three deputy directors oversee the operations and maintenance of our landfills, including our three greeneries co-located at the active sites. This includes all facets of operations, resource recovery, compliance, engineering, and environmental programs within their respective regions. A fourth deputy director leads the backbone of our safety culture program and standard operational procedures agency wide, working closely with all sites. Under their collective leadership, safety remains a top priority, ensuring the well-being of our team and the communities we serve.



## Environmental Sustainability

In 2023, OC Waste & Recycling initiated the recruitment of a new Deputy Director to lead the County's efforts on environmental conservation and sustainability. This includes collaboration with key stakeholders for implementation of the County's First Climate Action Plan (CAP). The countywide CAP establishes sustainable initiatives and priorities related to reducing the County's carbon footprint along with setting policies and goals for waste and recycling management. The CAP set standards for our County and its practices while creating green jobs and providing more opportunities for our most disadvantaged residents. The Deputy Director of Sustainability will research and spearhead grant funding opportunities including the Climate Pollution Reduction Grant (CPRG) through the federal Inflation Reduction Act (IRA) to benefit County facilities, unincorporated communities, and the county as a whole.



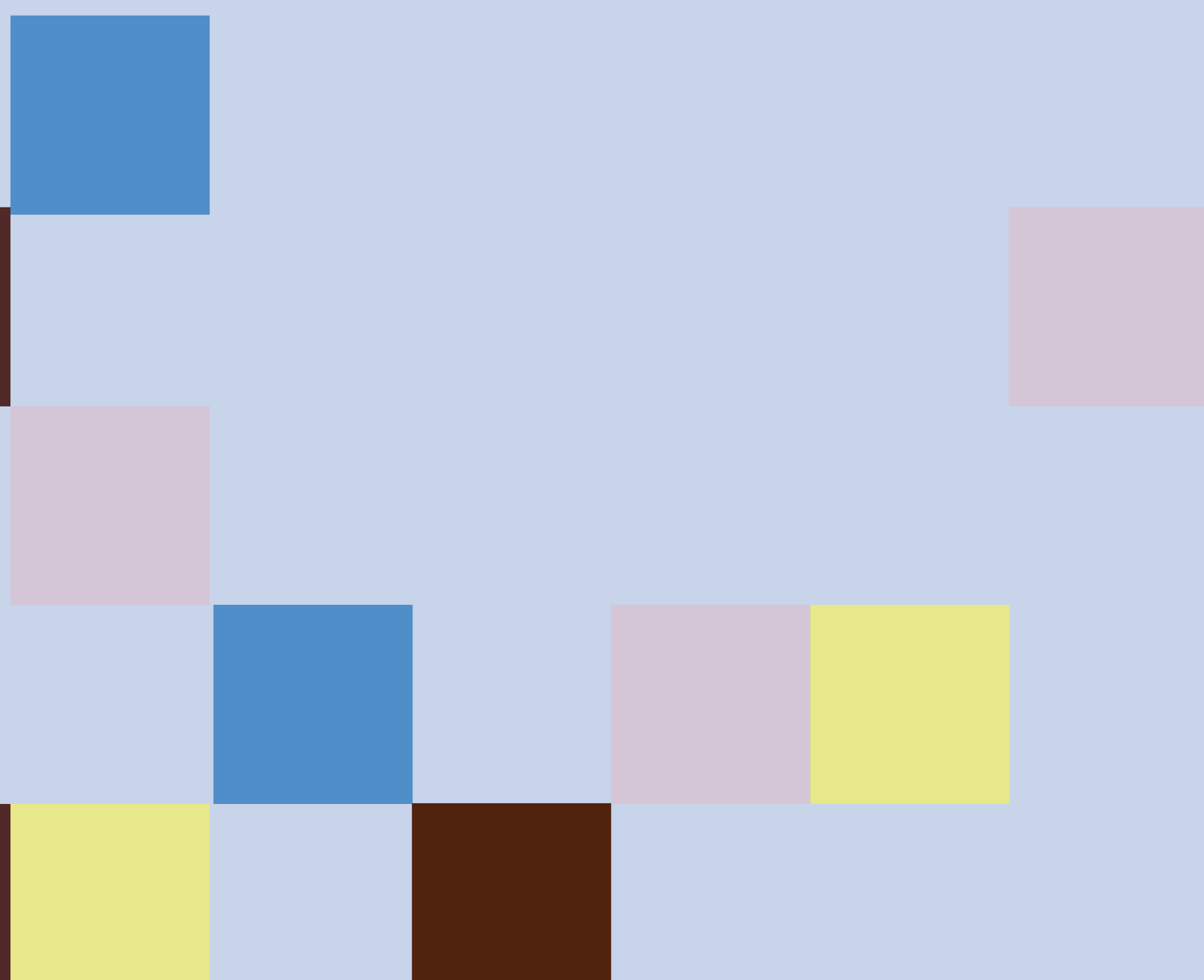
## Compliance

The Compliance Support Division plays an instrumental role ensuring that department operations align with all federal, state, and local environmental regulations. Beyond environmental oversight, this division also manages planning, renewable energy initiatives, the project management office, and the reliability maintenance program. Through these efforts, the department is spearheading a progressive approach to organizational efficiency, best available technologies and streamlined processes to ensure reliable, safe, and seamless service across all operations and business management functions.



## Business Services

Business Services & External Affairs (BSEA) is instrumental in securing the financial standing for the agency to support all of the operations, planning, contractual, and regulatory requirements. This division also plays a crucial role in ensuring department goals are clearly defined with a strategic plan towards success. BSEA spearheads education and strategic outreach on various key initiatives, including SB 1383 implementation, strategic projects, government relations, accounting, budgets, administration, legislation, procurement, contracts, Information Technology (IT), and our network of Household Hazardous Waste Collection Centers.





# Creating Opportunity



OC Waste & Recycling provides exemplary waste management and resource recovery services for the County's 34 cities and 3.2 million residents. We're consistently exploring new ways to do what we do more efficiently, strategically, and proactively, to meet the evolving regional, legislative, and environmental demands of our industry. As a result, we've developed programs that go beyond industry standards and regulations.

In 2023, we proudly showcased our progress to numerous municipalities, counties, trade organizations and legislative officials, establishing ourselves as pioneers among some of the most ambitious environmental organizations and organics initiatives nationwide.





# Systemwide Operations Highlights

**488,467**

Hours Recorded by  
OCWR Employees



**19,259**

Tons of Recycled Organic  
Waste for Composting



**706,449**

Total Fee Booth Transactions



**7,535**

Tons of Total Recycled Organic  
Waste Product Distributed



**94,364**

Total Operational Hours  
of Heavy Equipment



**5,085,401**

Tons of Buried Waste



**41,108**

Calls Handled at HQ Reception



**574,011**

Tons of Asphalt Received



New equipment:

**3**

compost screeners



New equipment:

**2**

bagging machines



**23,473**

Total Mattresses Recovered



**45,486**

Tons of Soil Received



**2,214**

Tons of Scrap Metal Recovered



**446**

Acres of Habitat Maintained



## WISE Agreements

With the County's current Waste Disposal Agreement contracts approaching expiration in June 2025, OC Waste & Recycling is primed for the transition to a new Waste Infrastructure System Enhancement (WISE) agreement with our municipalities. This strategic shift marks a crucial step in our business model and operational framework, in order to better serve the region. The WISE agreements represent a progressive step towards creating sustainable and environmentally responsible local infrastructure as the foundation of our next generation of essential public services in Orange County. The WISE agreements are designed to support:

- A regional approach to organics and edible food recovery
- Market creation and development for beneficial byproducts
- Facilitate SB 1383 compliance and procurement requirements
- Create regional standardization and drive collaboration
- Provides for continued stabilized rates for all County residents through efficient management of the landfill and recovery systems as a whole

OC Waste & Recycling is working closely with partners for a seamless transition in 2025.

## SB 1383 Compliance

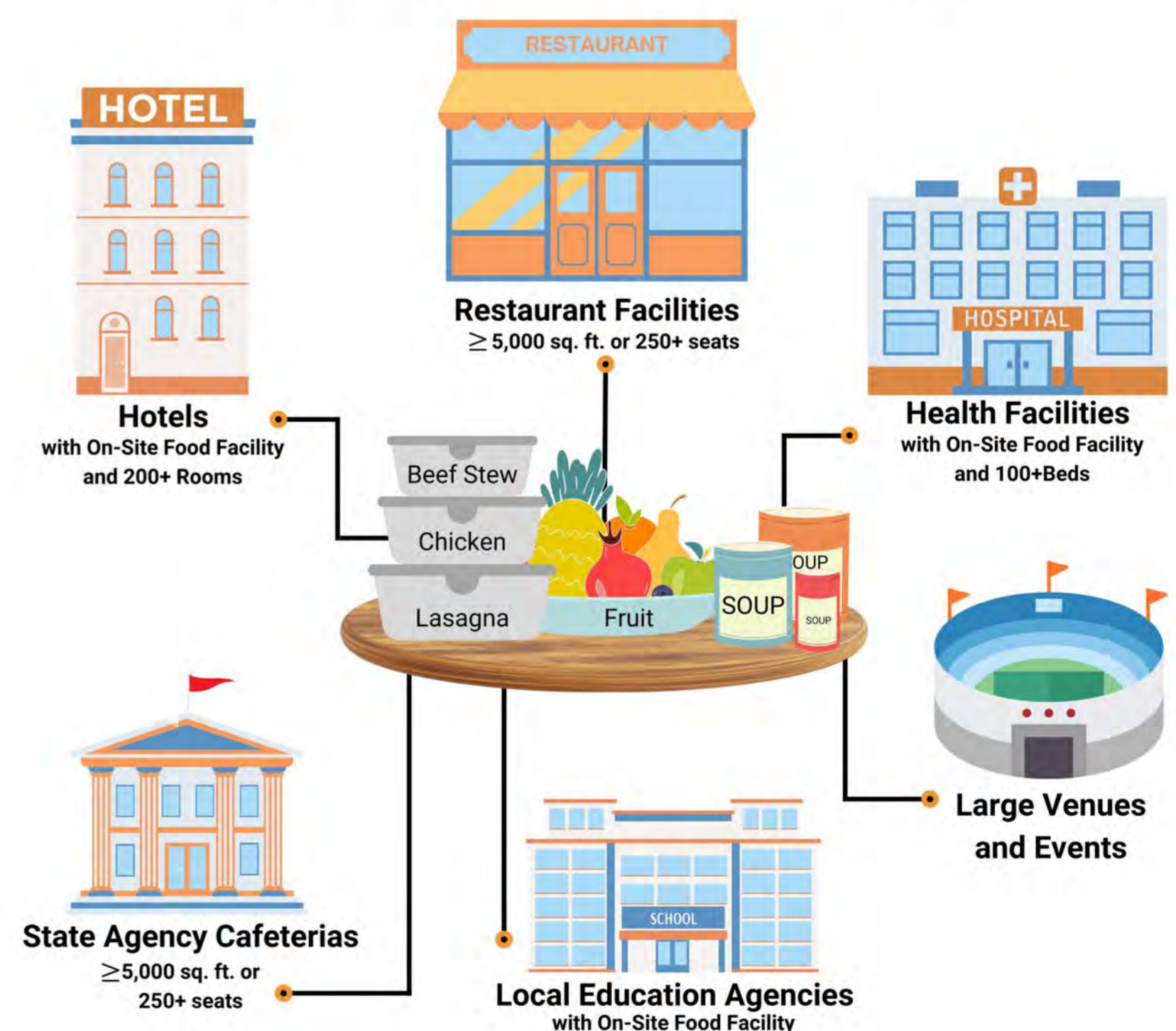
OC Waste & Recycling met its 2023 jurisdictional target for state-mandated procurement of recycled organic waste products, such as compost and mulch. This milestone was made possible through focused market development efforts, hosting compost giveaway events at our greeneries and forging strategic partnerships. Through these efforts, we've repurposed nearly 7,500 tons of compost and mulch for beneficial re-use this past year. Partnerships include 24 cities for bulk compost and mulch products, with 13 cities securing open passes for ongoing procurement. Our compost and mulch products were used in applications spanning residential giveaways, commercial and residential landscape projects, erosion control, wattle giveaways for flood control measures in our canyon communities and more. Additional partnerships include:

Irvine Ranch Conservancy	OC Fire Authority
OC Parks	OC Public Works
Santa Margarita Water District	Agriculture Commission
Caltrans	City Pick Up Sites, Giveaways, Events

In addition, OCWR continued its edible food recovery collaboration with Tier 2 Generators through additional notifications and site visits to help guide them towards successful compliance requirements.



Tier 2 businesses typically have more prepared foods to donate, which often require more careful handling to meet food safety requirements (e.g. time and temperature controls).





## OC Recycling Coordinators Meetings and ReGroup Working Groups

OC Waste & Recycling leads two critical venues to collaborate with cities, jurisdictions and special districts to help facilitate SB 1383 implementation and compliance. The department hosts quarterly meetings with CalRecycle participation and other partners for timely updates on regulations, grant opportunities and to provide insight on regional or statewide implementation approaches. In 2023, we launched, ReGroup, an additional monthly working group opportunity for more in-depth strategic planning and sharing of resources and ideas. Together we have fostered new partnerships and streamlined tactics related to topics such as food recovery, Tier 1 and Tier 2 compliance challenges and compliance implementation for schools and educational organizations.



## Resource Recovery

In addition to ongoing initiatives towards advanced composting, renewable natural gas, anaerobic digestion, and others, we remain committed to resource recovery efforts with common mainstream materials to further preserve landfill space. Through these efforts, materials are repurposed to create beneficial by-products rather than buried as waste.

 **23,473** mattresses recovered

 **2,214** metals recovered





## Household Hazardous Waste Collection Centers

Improper disposal of household hazardous waste presents significant risks to both the environment and the safety of workers. Items requiring special handling should not be placed in regular trash or recycling containers, and hazardous liquids must never be poured down the drain. Since its inception in 1985, the County's Household Hazardous Waste Collection Centers (HHWCC) has evolved into one of the most efficient in California. With facilities located in Huntington Beach, Anaheim, Irvine, and San Juan Capistrano, Orange County provides free household hazardous waste collection services to its residents.

The HHWCC offer complimentary services to Orange County residents, providing a convenient drive-up, hands-free experience for safely disposing of household hazardous waste. This includes a wide range of items such as common chemicals, batteries, smoke detectors, pesticides, paints, automotive fluids, and electronic waste. The collection centers also offer free reusable products such as paint and cleaning supplies to residents, through the Material Exchange Program hosted at each location.

## HHW statistics for HHW, Material Exchange Program



**172,725** Customers Served



**7,866,282** Pounds of Hazardous Waste Collected

## Expanded Partnerships - Pesticide Collection Event

Unwanted pesticides pose serious risks to our community and environment. In 2023, OCWR and the Agriculture Commissioner hosted a joint collection event to ensure safe disposal of these hazardous substances.



**2,650** Pounds of commercial pesticides collected









## Safeguarding Success

OC Waste & Recycling's safety program is simple in concept, yet effective: involving our employees at every level. Through the inclusive involvement of site staff, supervisors, and management, we not only increased engagement, we continued to uphold consistent standards and compliance across all sites.

In 2023, we bolstered various safety initiatives. We expanded the Heavy Equipment Training Program with the installation of additional simulator modules, so that each facility houses a dedicated training simulator providing staff development year-round. In addition, the Safety Culture Team expanded to include three Senior Safety Specialists, providing a dedicated specialist to oversee safety and record keeping at each region. In addition, all three sites implemented new safety spotter stands to increase visibility and protect traffic control staff. The program was initiated, created, employee-driven and launched by safety task forces aimed at inspiring change from all levels.

OC Waste & Recycling remains a dedicated partner with the Solid Waste Association of North America (SWANA). We actively promote safety throughout the industry by hosting Hauler Safety Outreach events, disseminating educational materials to landfill customers and championing campaigns including the "SWANA Safety Pledge" and "5 to Stay Alive" programs. Jorge Hernandez, Deputy Director of our Olinda Alpha Landfill serves as the SWANA SoCal Chapter Safety Ambassador, emphasizing our commitment to advancing safety practices at OC Waste & Recycling and within the industry.



-  **5,915** Training items recorded
-  **10,109** Total training hours conducted  
(Average 2.5 hours/ month per employee dedicated to training; though some classification such as Trainees, Heavy Equipment Operators and special assignments have much more )
-  **1,481** Spot Checks submitted (2.5x increase over prior year)
-  **100% (722 total)** SOP and LOTO reviewed and/or revised  
(SOP=Standard Operating Procedures, LOTO=Lockout Tagout Procedures)
-  Standardized drone program and implementation of the use of laser methane detection
-  Standardized and upgraded fuel dispensing systems for automation and security

We continue our steadfast commitment towards the most updated policies and procedures, ongoing risk assessments, encouragement of incident reporting, enhanced education and training, emergency preparedness and ongoing industry collaboration.

# Habitat Restoration

## **NORTH** **Santiago Oaks**

In collaboration with OC Parks, this project features the planting of 200 coastal live oak trees at Santiago Oaks Regional Park. The trees were initially planted in January 2011, to compensate for riparian oak impacts from the Olinda Alpha Landfill expansion project. Despite setbacks from two wildfires, the oak trees have been steadily growing and 90 trees are expected to be taken off supplemental watering in 2024, marking a significant milestone in their growth and sustainability.



## **SOUTH** **Trabuco Creek** **Restoration Update**

Trabuco Creek is undergoing phased restoration efforts in partnership with OC Waste & Recycling compost facilities and the Irvine Ranch Conservancy (IRC). Compost from our greeneries was utilized to support the establishment of wetland plants, marking a crucial step in enhancing the ecosystem. In the wetland area, approximately 820 groundcover plants were carefully installed during November and December, setting the foundation for further growth.

IRC focuses on removing Arundo within the riparian zone, to prepare the site for future planting and seeding activities. This process is being carried out in phases, reflecting the expansive nature of the restoration area. In the initial phase, conducted between November and December 2023, approximately 2,420 plants spanning nine species were successfully introduced.

## **SOUTH** **Prima Supplemental Open Space Drainage Project Update**

This project established ephemeral drainages to fulfill Regional Water Quality Control Board (RWQCB) permit requirements. Since its installation, regular maintenance activities ensure the upkeep of the area, including the removal of non-native vegetation such as mustard, artichoke thistle, Russian thistle, and non-native grasses. Noteworthy progress has been achieved, as evidenced by the project meeting interim performance standards in 2023.



## **CENTRAL** **Agua Chinon Restoration Project Recovery Update**

Following the 2020 Silverado Fire, the Agua Chinon riparian restoration project has demonstrated remarkable resilience. Under the stewardship of Irvine Ranch Conservancy (IRC), significant efforts have been made to restore the site to its former vitality. Despite facing challenges such as the persistence of non-native weeds, the site is on track to meet its final performance standards in 2024, signaling a significant milestone in its recovery journey.

## **CENTRAL** **Crystal Cove Restoration Project Update**

Managed by the IRC under contract with OCWR, the Crystal Cove restoration project has made notable strides in 2023. The site preparation phase, marked by extensive weed management efforts has concluded, paving the way for the planting of native vegetation. In late 2023, native seed mixes for coastal sage scrub, coastal bluff, and native grassland habitats were applied by hand, totaling 268 bulk pounds. The effort included incorporating sensitive plant species into the seed mixes to facilitate the reestablishment of their populations. Notable additions included vernal barley, paniculate tarplant and OC Turkish rugging, contributing to the project's biodiversity objectives.



# Capital Improvement Projects



## North Region Olinda Alpha Landfill (OAL)

OAL Gas Header Upgrade Phase 1 (commenced) \$2.49M

Organics Phase 1A, OAL Valencia Greenery Windrow (commenced) \$5.69M



## Central Region Frank R. Bowerman Landfill (FRB)

FRB Phase VIII-A1 Groundwater Protection Project (commenced) \$54M

FRB Sewer Line and Water Treatment System (commenced) \$9M

Organics Phase 1B, FRB Bee Canyon Greenery Extension (completion) \$2.58M



## South Region Prima Deshecha Landfill (Prima)

Prima Entrance Improvement Project (completed) \$24M

Prima Zone 4 Phase A Project (commenced) \$88.2M

Prima Infrastructure Phase 1A (commenced) \$5.19M







# Advancing the Vision for OC



OC Waste & Recycling continues to build the foundation of sustainable local infrastructure that will drive waste diversion, recycling, and green jobs in our local economy for years to come. Through advanced resource recovery, not only are we spearheading a first-of-its kind circular economy of the recycled byproducts, we're protecting public health and our environment in the process. In 2023, we made significant progress towards creating new markets for these resources and the overall benefit of our communities.

## Prima Entrance Improvement Project

OCWR celebrated completion of a new scale house and extensive infrastructure upgrades at Prima Deshecha Landfill (PDL) in San Juan Capistrano. The \$24M project marks a momentous step towards heightened efficiency, safety, and ecological sustainability. Transitioning from two lanes, the newly constructed scale booths now accommodate six lanes, complemented by a range of technological and safety enhancements. These include four additional scales, scale canopies, a modern office building, low emission flares, and landscaping for both aesthetic appeal and enhanced fire safety measures. The improvements allow OCWR to serve more customers, decrease wait times, shorten traffic queues, and centralize access to Capistrano Greenery, Zones 1 and 4, preparing the site for the next 80 to 100 years.





## Valencia Greenery Groundbreaking

Celebrated the ceremonial groundbreaking of our third compost greenery in June 2023 to complete the Phase 1 foundation of organics recycling for the County.

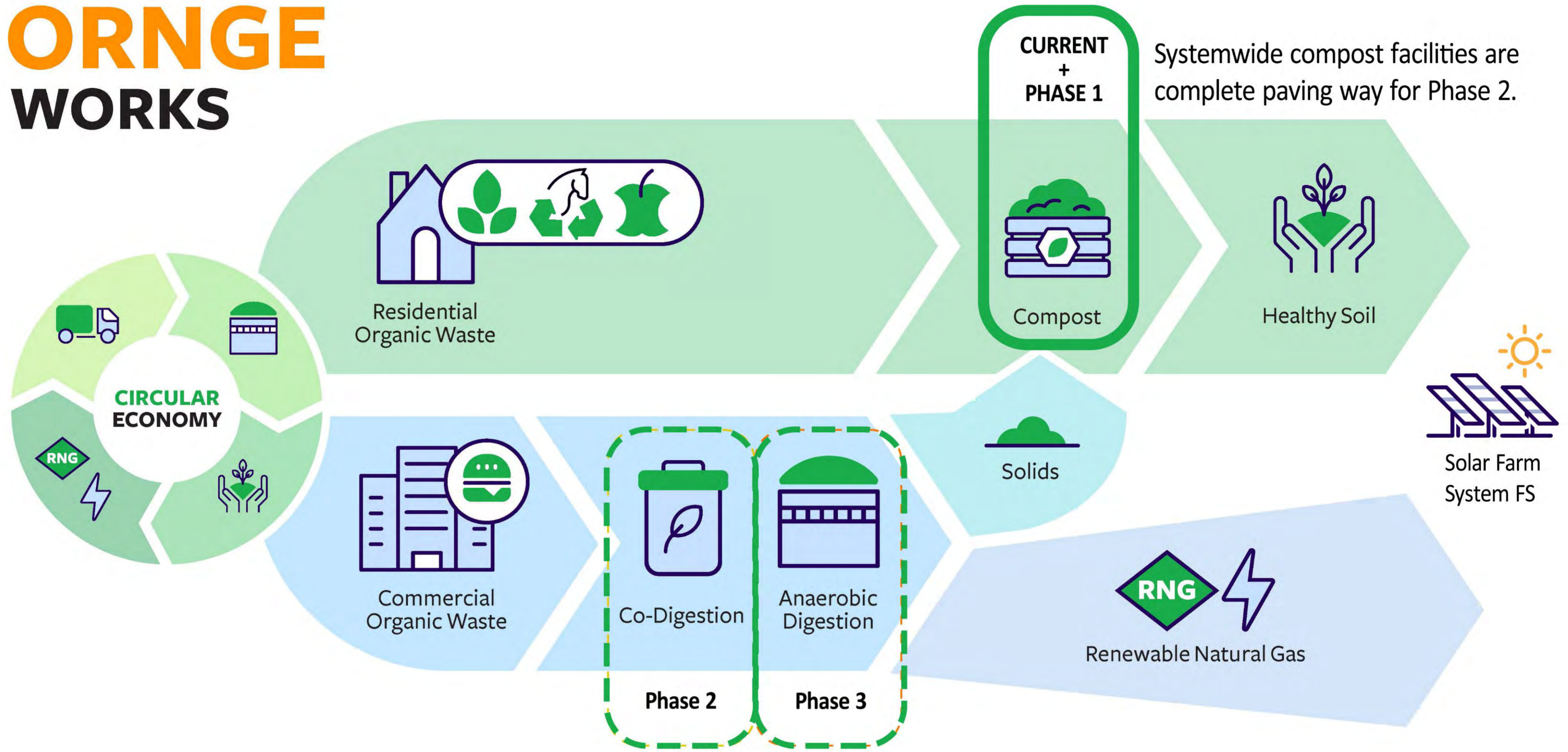
## Expansion of Bee Canyon Greenery

Initiated Phase 1B of our vision by expanding Bee Canyon Greenery to 30 acres within the site. Also began the design process to build our first Covered Aerated Static Pile (CASP) composting operation on the expanded compost pad.

# Building our Pathway to a Circular Economy

## HOW ORNGE WORKS

Organics to Renewable Natural Gas and Energy



### RNG

At Frank R. Bowerman Landfill, initiated partnership with Montauk Renewables to build Renewable Natural Gas (RNG) facility on site.



### Renewable Diesel Fuel Conversion

Following the successful conversion of OCWR's fleet of heavy equipment to Renewable Diesel (RD) in 2021, the department continued efforts to modernize its heavy construction equipment in becoming All Tier IV Final compliant. As of January 2023, we achieved 80.7% compliance with a goal of securing 87.6% compliance by January 2024. Tier IV Final fleets are those recognized by the California Air Resources Board (CARB) as meeting the highest level of emissions standards in the off-road sector.



### Smart Landfilling

Developed foundation of Supervisory Control & Data Acquisition (SCADA) and Smart Landfilling Program (SLP) to streamline operational efficiency, provide real-time data and analysis opportunities and employ best available technologies driving future business, strategy, and operations for OC Waste & Recycling.





# Community Collaboration

## Orange County Department of Education

OCWR in partnership with the Orange County Department of Education offers waste diversion and recycling education to grades K – 12 via the EcoChallenge. The standards-based EcoChallenge curriculum is free to teachers in Orange County and plays a pivotal role in advancing waste diversion awareness and best practices.

During the 2023 school year, 7,500 students from 337 classrooms across all five supervisorial districts were recruited to participate in the EcoChallenge. As part of the 5th grade curriculum, students highlighted the home waste audits they completed. We also partnered with our OC teacher hockey league, Bad Apples, to create a promotional video for the curriculum by teachers to teachers.



**KRISTIN JONES**

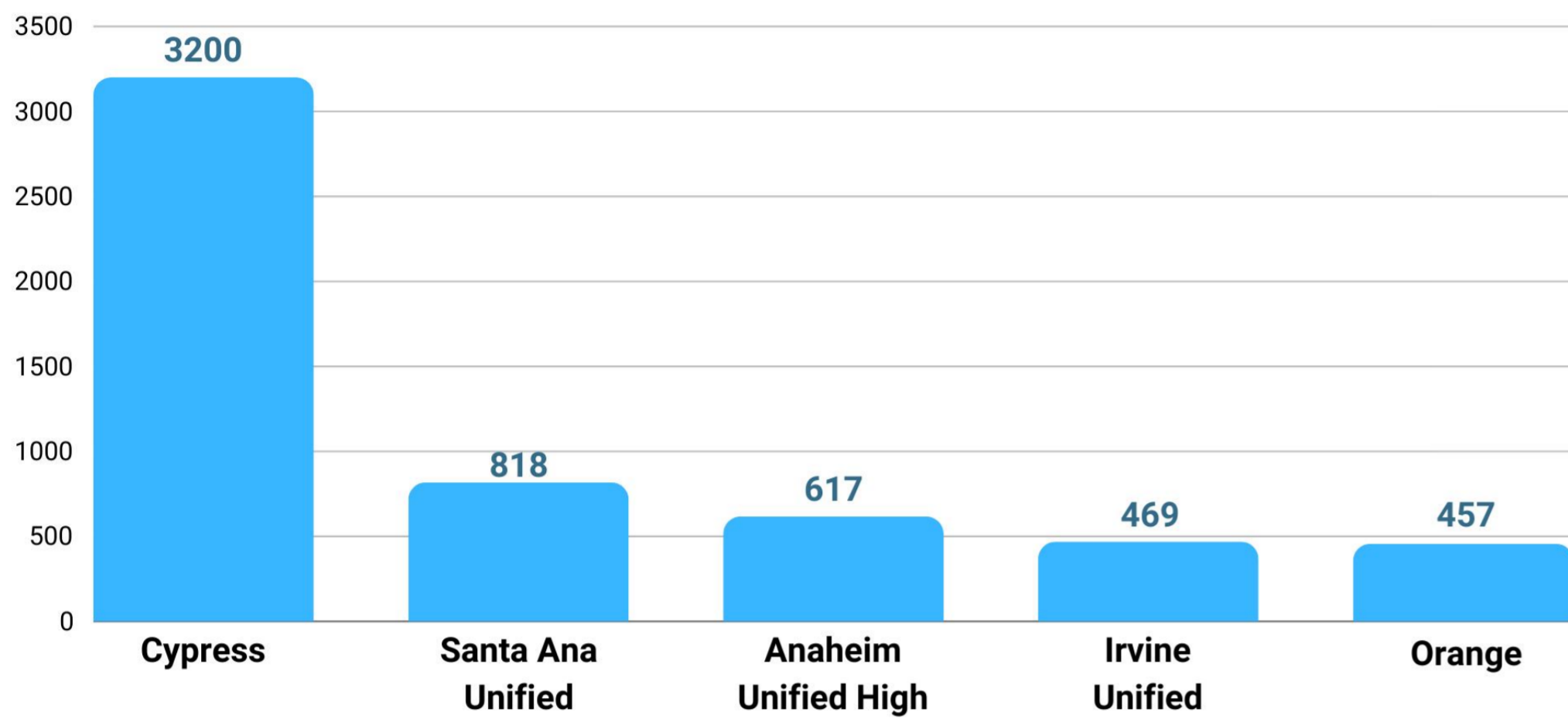
4TH GRADE TEACHER  
MATTIE LOU MAXWELL ELEMENTARY



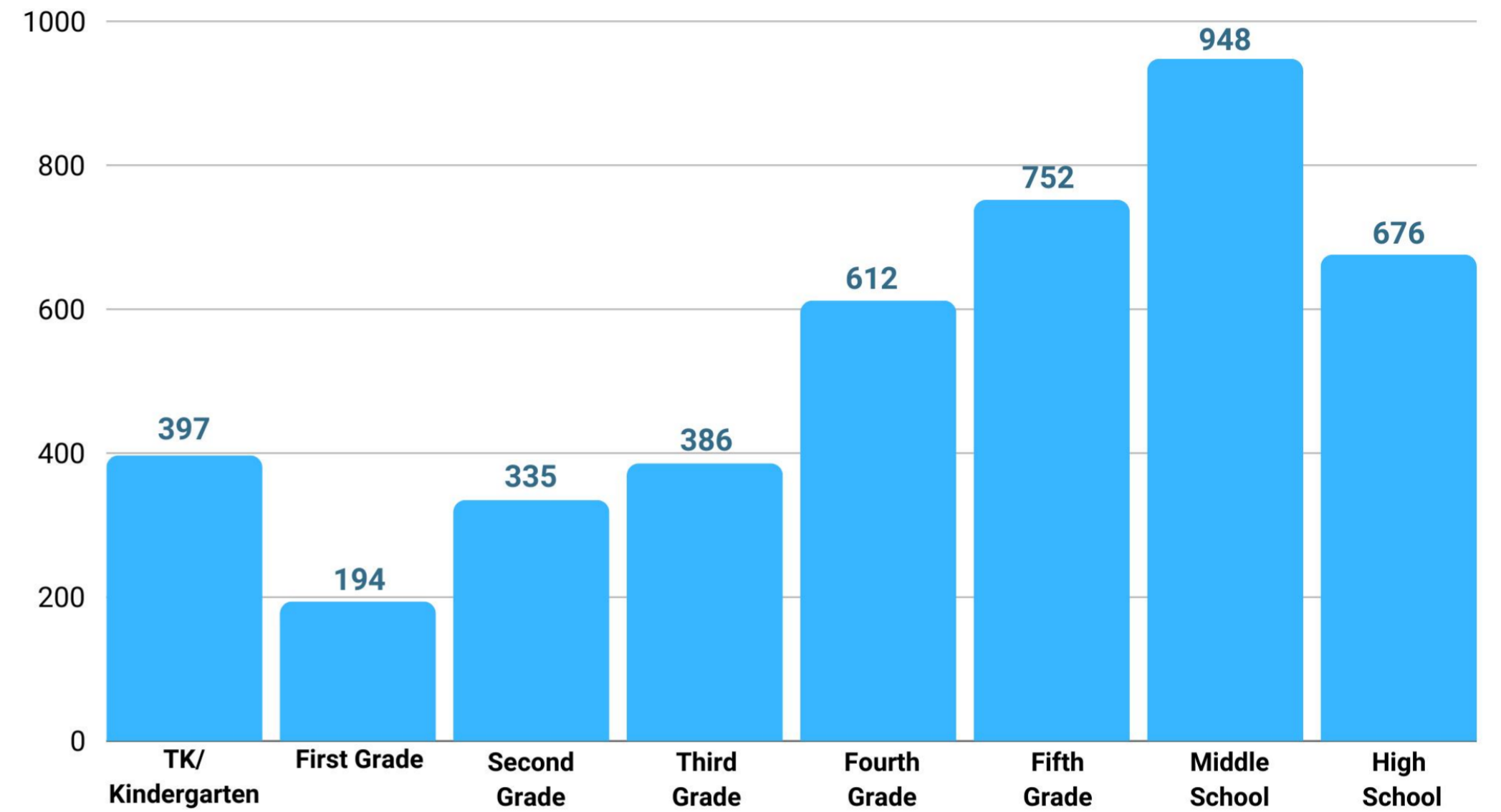
WATCH THE VIDEO

Recruitment for the inclusion of EcoChallenge curricula yielded significant growth from July 2023 to September 2023. The charts capture data increases for all grade levels, with a noticeable increase in the middle school grades. This trend underscores the effectiveness and appeal of the curriculum with middle schoolers, who are increasingly eager to embrace environmentally conscious practices.

The EcoChallenge extends waste diversion education to Orange County families through partnerships with schools, parent groups, and community events. This initiative not only benefits directly involved students, but also contributes to a more environmentally conscious community throughout Orange County while supporting state mandated legislation.



Number of Students from Top 5 Participating School Districts



Number of Students By Grade Level

## Allison the Apple



### What worked well in this lesson sequence?

"The video (Allison the Apple) was perfect for all students to understand! We used this video as an introduction to all students in grades TK-6th grade as part of our effort to reduce organic waste."

Science TOSA, Cypress School District



### What part of the lesson resonated most with your students?

"Community action empowering youth to realize they can be the change that is needed."

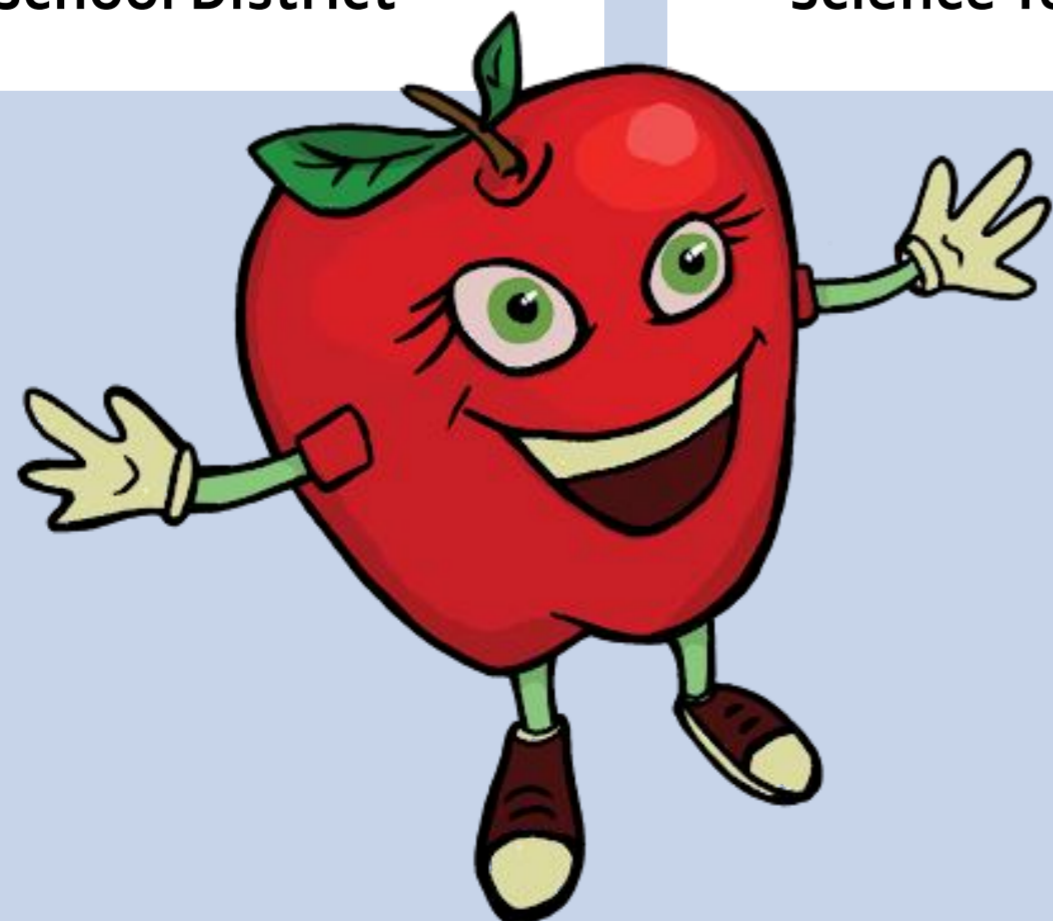
Science Teacher, Vista View Middle School



### What part of the lesson resonated most with your students?

"They enjoyed learning about the landfill processes."

5th Grade Teacher, Esencia K-8

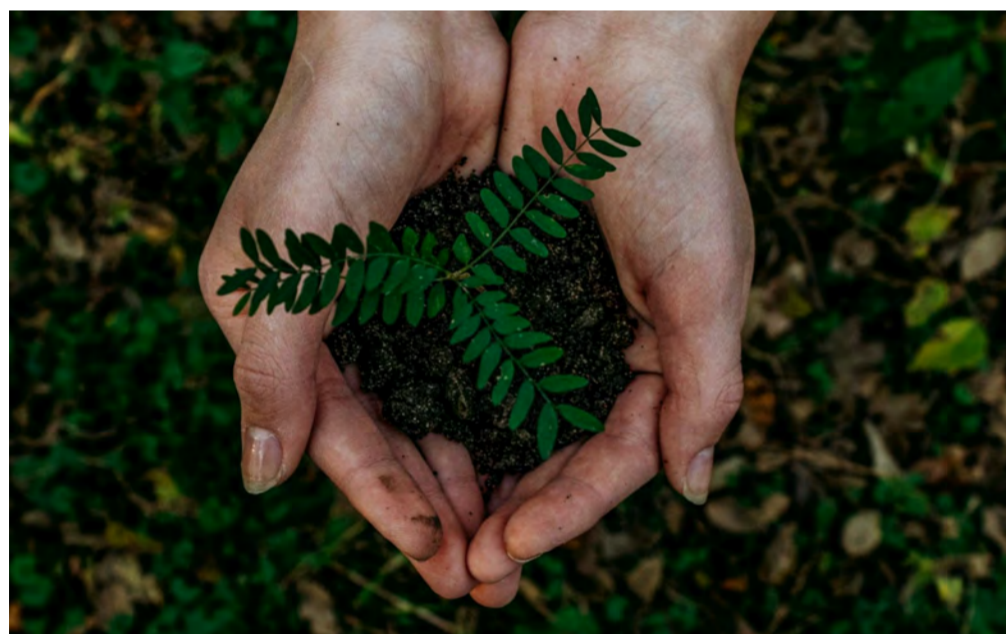




## Discovery Cube OC Partnership

OC Waste & Recycling and Discovery Cube OC engage families across the county with hands-on learning experiences that result in the education of recycling best practices for the preservation of our local resources. This partnership generates more than 400,000 touch points annually through museum visits, field trips, events and classroom curriculum that fosters the next generation of Orange County's environmental stewards.

## 2023 Stats



Earth Month

**24,795**  
combined reach

Library event



OCWR partnered with OC Public Libraries and Discovery Cube to bring the magic of vermicomposting to public libraries during Earth Month.

Visitor attendance

**421,557**

America Recycles Day®

**48,205**  
combined reach



Santa Ana Waste Free Days

**5,380**  
participants

Earth Day



OCWR went into the Cube for Earth Day, engaging students with recycling questions and sharing information with families.

Offsite Education Programs

**1,855**  
students reached



New water table / trellis



The Organics Waste Lab incorporated a new water table for hands-on learning and a trellis for additional shade in the outdoor area.



## United Way Lunch at the Landfill

The County of Orange, in partnership with OCWR, proudly sponsored the 18th annual "Lunch at the Landfill" United Way fundraiser. Held at Frank R. Bowerman Landfill in Irvine, this year's event surpassed all expectations, raising over \$33,000 for low-income programs throughout Orange County and setting a new fundraising record for any single County-sponsored United Way fundraiser throughout its 40-year partnership.

On September 19, 2023, OC Waste & Recycling was recognized as United Way's "Corporate Giving Climber" award for our year-over-year increase in funds raised through the annual Lunch at the Landfill events.



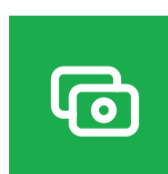
## Anaheim Ducks and Angels Baseball

Highly visible partnerships with Angels Baseball and the Anaheim Ducks Hockey Club provides programming to residents from across the County. Waste diversion education promoting recycling best practices reached thousands of students and families through in-stadium and arena events along with field trips, offsite assemblies, scholarship programs and incentives, and digital campaigns.



WATCH THE VIDEO

## Grants



### **\$3M** CalRecycle Organics Grant Program

Awarded to OCWR for Bee Canyon Greenery Phase 1B expansion.

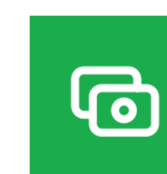


### **\$181,119** CalRecycle SB 1383 Local Assistance Grant

Awarded in 2022, OCWR received its first shipment of food scrap pails for distribution to unincorporated residents. The grant also funds tracking software for SB 1383 mandated reporting and an educational video for food scrap pail instruction.



WATCH THE VIDEO



### **\$150,000** CalRecycle Edible Food Recovery Grant

OCWR continued implementation of its partnership grant with John Wayne Airport for edible food recovery, education and equipment to support SB 1383 requirements. 2023 progress included vendor education, refrigeration purchases and site construction.



# Social Media Amplifying OCWR's Impact in 2023

In 2023, social media played a pivotal role in elevating OCWR messages and education, resulting in increased engagement through events, programs our social media platforms.

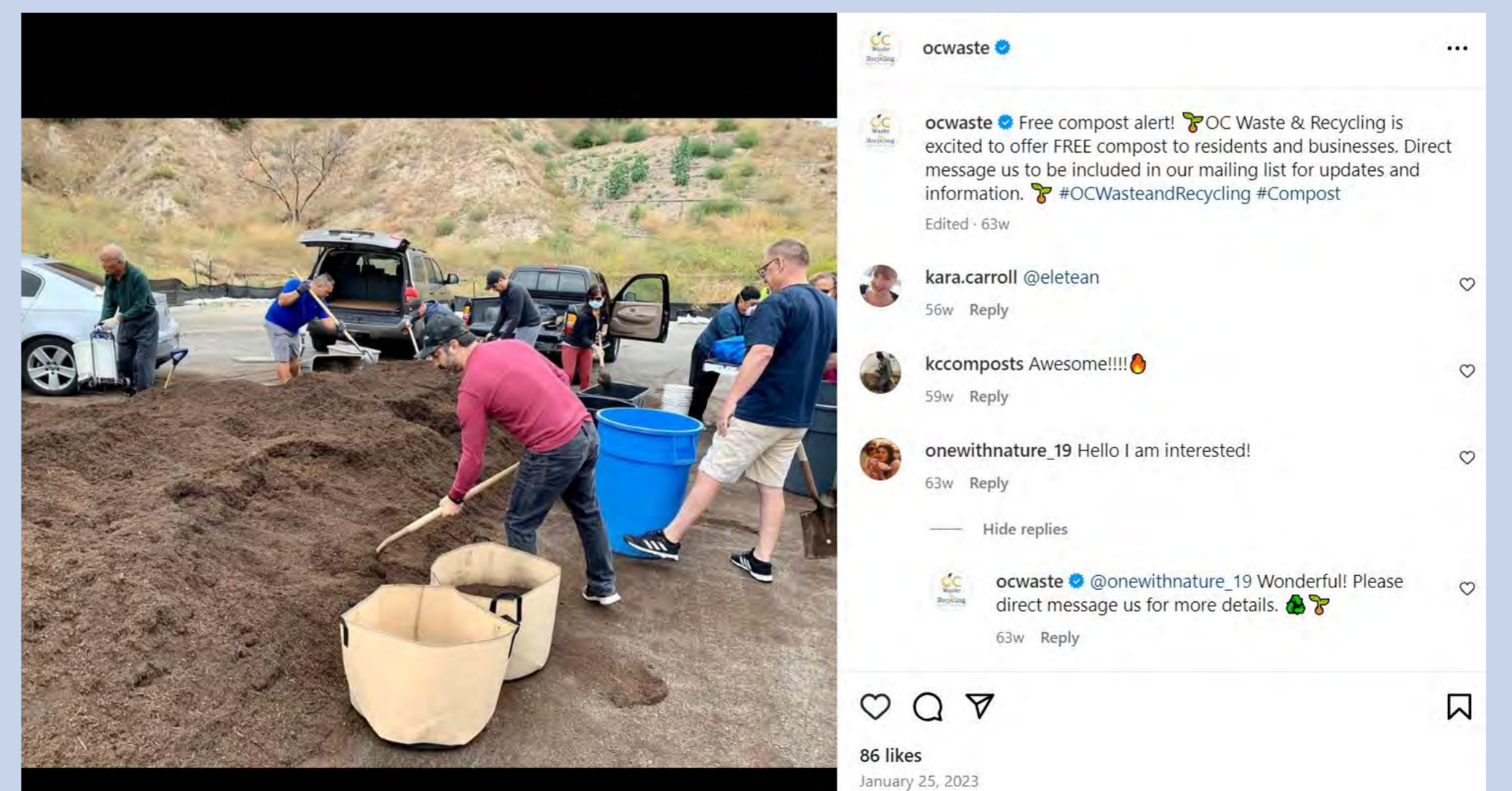
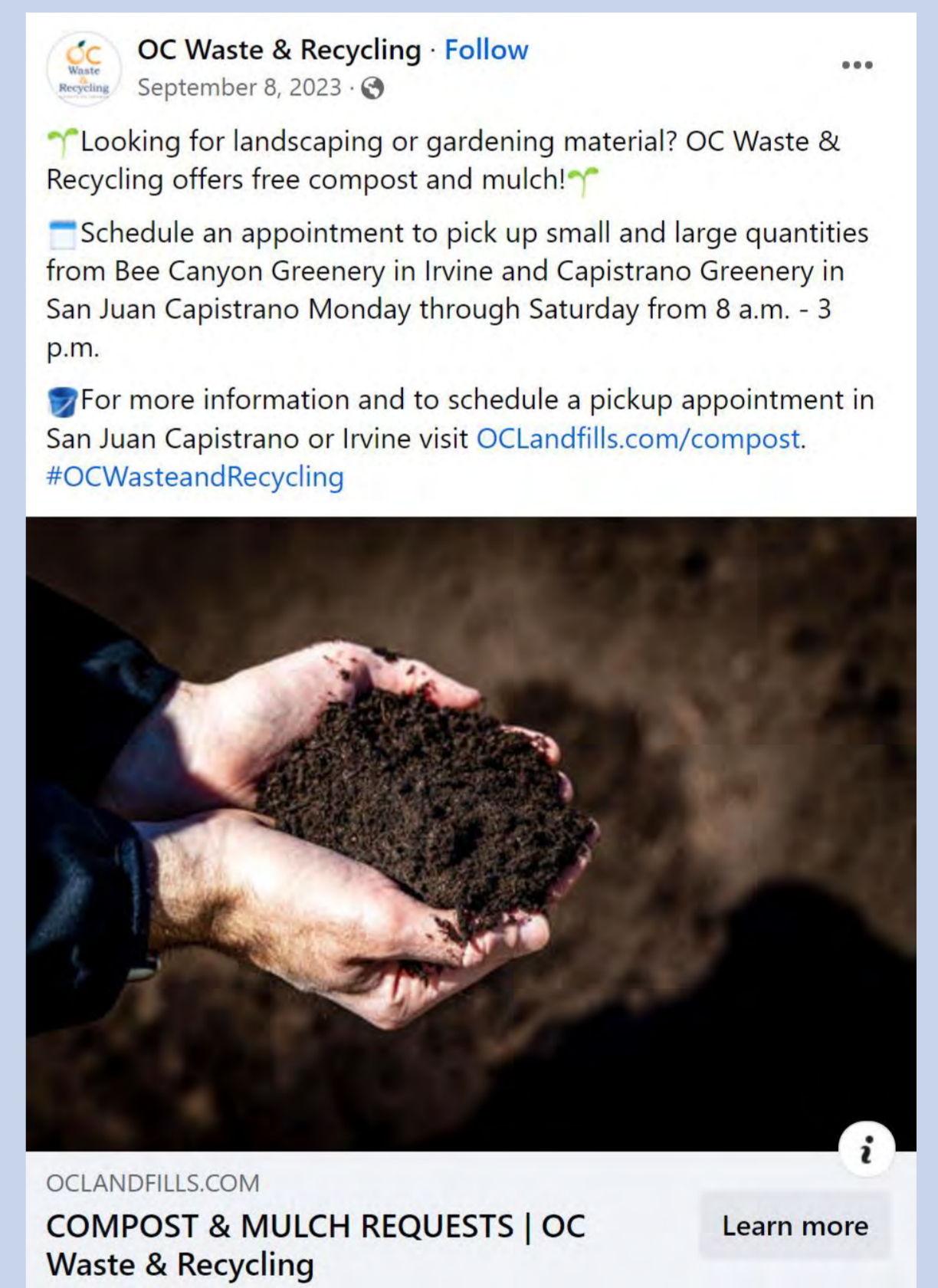
Earth Day celebrations, featuring county-wide compost giveaways across all three active landfills, became our most engaging social media activity across all media channels. Additionally, our collaboration with SWANA at the Frank R. Bowerman Landfill event generated widespread online sharing, retweeting, and posting, especially on LinkedIn.

Our America Recycles Day® campaign in November received some of our highest support from various stakeholders, including the Board of Supervisors, CalRecycle, OCCE Master Gardeners, and 15 cities across the county, showcasing our commitment to sustainability and community involvement.

**f** Facebook Page Impressions surged by **98% to 400K**

**i** Instagram Page Impressions increased by **81% to 96K**

**X** Twitter Post Impressions experienced a rise by **66% to 38K**





# Enforcement Outreach

With 2024 enforcement regulations beginning January 1, 2024, OCWR launched an initial informational campaign to OC residents and businesses. The department sent targeted postcard mailings to 50,000 unincorporated residents and more than 200 unincorporated businesses informing them of new regulations. In addition, we implemented a print and digital ad campaign through a half-page informational piece in a December issue of the Orange County Register. The campaign had a reach of 310,918 readers and 50,000 digital banner ad impressions.



Scan QR code for residential recycling and hauler contact information.

## Tips for Residents

- Take action now**  
All unincorporated areas and most cities in OC have already rolled out organics recycling. Your jurisdiction may provide a new organics bin or instructions for using your existing green waste bin. Contact your waste hauler or city for details.
- Place organic waste in designated organics bin**  
Food and other organic waste must be placed in your designated organic waste bin, enforceable by your jurisdiction. If contamination is found it could result in educational material on proper sorting, notices of violations, fines or other actions. If you live in an apartment or other multifamily complex, check with your property management for details.
- Know what goes where**  
Check with your waste hauler or property management about what can or cannot be placed in the organics bin. Compostable bags, utensils or other items may hinder the recycling process.

For residential recycling and hauler contact information please visit [OCLandfills.com/residents](https://OCLandfills.com/residents)



## Events

OCWR supports community events and outreach opportunities throughout the County. These include event booths, summer school programs, outreach materials, community clean-up events and more. Through community engagement, our teams were able to report on residential awareness specific to new organics recycling education and provide resources to answer their many questions.



**40+** events supported with outreach



**163,100** touch points



## OCRecycleGuide.com

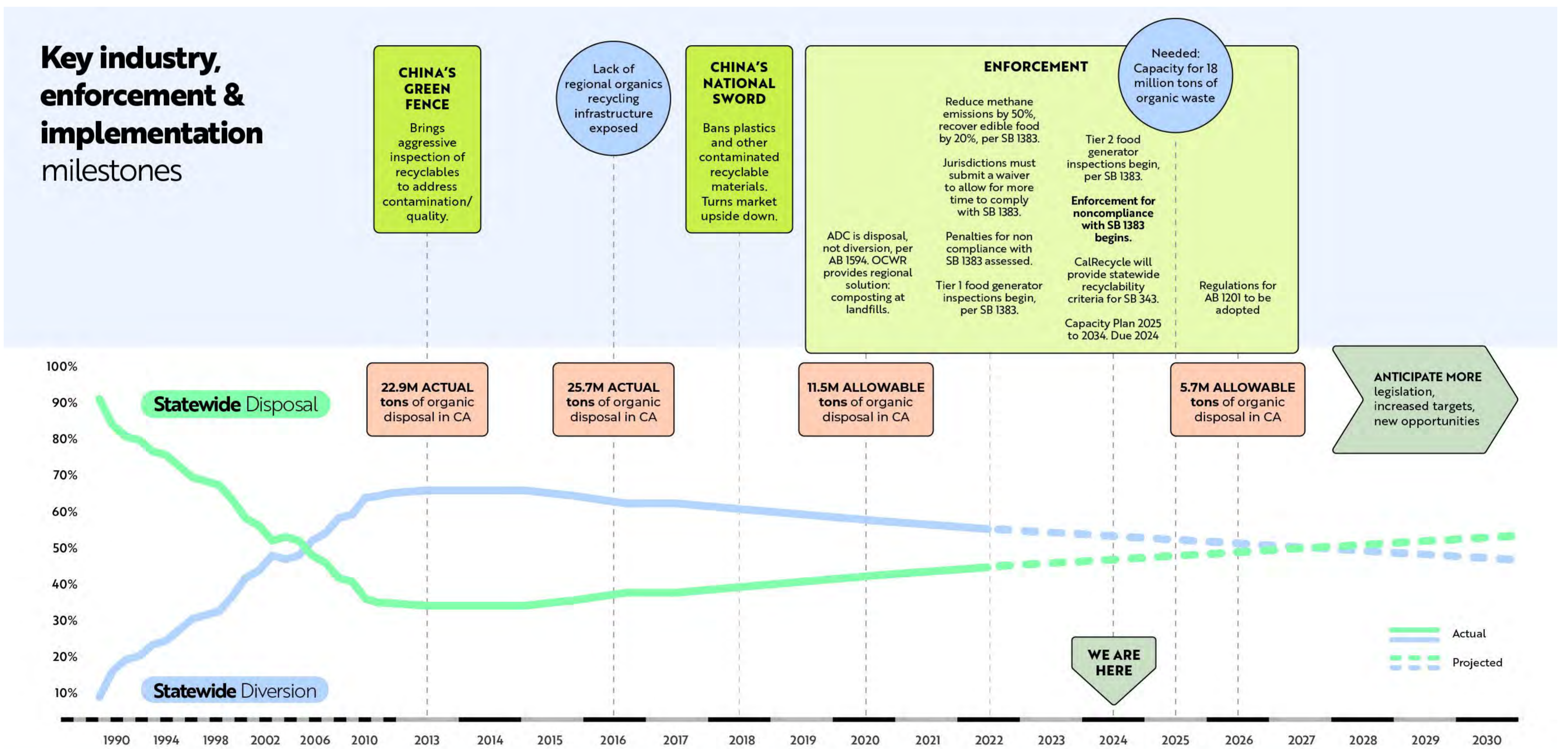
The OC Recycle Guide is OCWR's go-to educational hub offering a wealth of information and practical tips on regional recycling resources. The dedicated web portal provides recycling answers tailored specifically for Orange County residents, conveniently organized from A to Z. In 2023, our guide attracted an impressive 94,000 visitors, underscoring its importance as a trusted resource in our community. The top five categories searched by users were: appliances, clothing, nails/screws, cardboard and electronics.





# Legislation & Legislative Progress

Ensuring jurisdictional compliance of Senate Bill (SB) 1383 remained a top priority in 2023. With SB 1383 enforcement commencing January 1, 2024, OCWR continued working together with the County's 34 cities, jurisdictions, and waste haulers, to complete Tier 1 Food Generator Inspections, finalize any remaining organic services rollouts, and meet recovered organic waste procurement targets.



## Shaping Tomorrow: Legislation Driving Change in 2023

OC Waste & Recycling is advocating for legislative and regulatory changes on several fronts to support the regional and statewide success of SB 1383. Designating public-owned and operated organic processing facilities as essential public facilities is paramount to reducing the financial demand of construction and permitting, resulting in increased organic processing capabilities statewide.

Many jurisdictions also face procurement and distribution challenges for the required Recovered Organic Waste Product (ROWP) targets for products such as compost, mulch and Renewable Natural Gas. Legislative backing is needed to assist jurisdictions in meeting procurement needs and securing markets for end products, such as approved renewable energy facilities.

For edible food recovery generators, support is needed to assist with the mandated increase in collection and outflow of recovered food. Funding is necessary to expand facilities and improve operations, as well as incentives for generators to fund non-profits for edible food, countering the SB 1383 impacts from streamlining over-purchasing and over production.



### Organics and Waste Management

Public Owned Processing Facilities as Essential Public Services



### Permitting to Support Infrastructure and Advancement

Expedited Process and Coordinated Efficiency Across Regulatory Agencies



### Procurement and Distribution

Renewable Energy Resources and End Market Support



### Edible Food Recovery

Funding and Resources

Legislative activity continued to unfold throughout 2023, with potential impacts to solid waste and recycling. OCWR tracked 61 bills, of which 17 were signed into law. Key legislative highlights include:

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**Assembly Bill (AB) 1201:** Prohibits the sale of plastic products labeled as compostable or home compostable unless product meets ASTM composability standards by Jan. 1, 2026.

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**AB 1548:** Provides financial assistance for in-state projects to sorting and aggregating organic and recyclable materials. Includes financial assistance for opportunities for reuse of materials diverted from landfill and projects undertaken by facilities to improve the recovery, sorting of recyclable materials to get those materials into the marketplace, the purchase of equipment and construction of facilities to help develop, implement, or expand edible food waste recovery operations, and establish programs.

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**Assembly Concurrent Resolution (ACR) 36:** Designated the week of May 7, 2023, through May 13, 2023, as Compost Awareness Week.

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**SB 244:** Enacted the Right to Repair Act, requiring electronic or appliance product, sold to others outside of direct retail sales, to make available, on fair and reasonable terms, to product owners, service and repair facilities, and service dealers, the means, as described, to affect the diagnosis, maintenance, or repair of the product.

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# Year in Review

## January

- ➔ OCWR creates landfill laborer recruitment video featuring employees and promoting job opportunities available at our landfills.
- ➔ COMPOST 2023 ~ Keeping up-to-date on the industry, our OCWR team attends the US Composting Council annual conference and tradeshow.
- ➔ OCWR rings in the Year of the Tiger with First District Supervisor Andrew Do at the Orange County Tet Festival at Mile Square Park.

[WATCH THE VIDEO](#)



## February

- ➔ OCWR featured on cover of Waste Advantage Magazine.
- ➔ OCWR partners with Discovery Cube OC for outreach and recognition of Teacher Champion Awards night.

[READ THE ARTICLE](#)

## March

- CalRecycle awards OCWR \$3M grant to expand Bee Canyon Greenery to 30 acres.
- OCWR participates with Anaheim Ducks First Flight Field Trip at the Honda Center.
- Discovery Cube unveils new water table in OCWR's Organics Waste Lab exhibit.
- 2023 Public Works Officers Institute - The Changing Landscape of Recycling: Local Market Development and Participation, featuring Tom Koutroulis as panel speaker.
- OCWR partners with Caltrans for a Silverado community cleanup event as part of the Clean California program.
- OCWR meets its 2023 SB 1383 Recovered Organic Waste Procurement Target of 3,067 tons.
- OCWR finalizes feasibility studies for Source Separated Organics (SSO) facilities (Phase 2) and anaerobic digestion (Phase 3) at active landfill sites.



▶ [WATCH THE VIDEO](#)



## April

- OCWR Hosts Countywide Compost Giveaway, distributing nearly 162.7 tons of ready-to-use compost in a single day.
- Earth Day celebration at Discovery Cube and partnership for compost and Wiggly Worm presentations at OC Public Libraries.
- Launch of first ReGroup collaboration meetings with city partners.
- OCWR and Angel's Baseball present scholarships to OC Schools.
- OCWR receives USCC STA certification for composted mulch at Bee Canyon Greenery.
- Santa Margarita Water District giveaway - 42 tons of OCWR's compost and mulch distributed.
- OCWR presents at Yorba Linda Women's Club providing tips for sorting and recycling to celebrate Earth Day.

## May

- Phase 1 of new flare installed at Prima.
- OCWR begins collaboration with wastewater partners/facilities for digester feedstock opportunities.
- OCWR participated in OC Vendor outreach event.
- OCWR participated in the Fourth District's CalFresh community event.
- OCWR's Household Hazardous Waste Collection Centers begin collecting smoke alarms and carbon monoxide detectors providing recycling solutions for the community.



## June

- Fourth District Supervisor Doug Chaffee joins OCWR at Ceremonial Grand Opening of Valencia Greenery providing a system-wide solution that meets new organics mandates.
- OCWR received two 2023 Achievement Awards from the National Association of Counties (NACo) for:
  1. Regional community compost education program for Orange County.
  2. A smart misting system at the Prima Deshecha Landfill (PDL) in San Juan Capistrano.
- OCWR and Montauk announce plans for renewable natural gas project at Frank R. Bowerman Landfill.
- OCWR participated in OC Green Expo providing education and sustainable resources for local residents.
- OCWR partners with SWANA, to host "SB 1383 at Work" educational outreach tour.
- OCWR and Fourth District host "50 Future Leaders" tour at Olinda Alpha Landfill.

## July

- Inside the Outdoors kicks off day camps, providing environmental education to foster creativity and curiosity through games and experiments.
- OCWR celebrates Rossmoor cleanup event.
- OCWR's Tom Koutroulis presents at Washington State Work Group on Organics Management to Reduce and Control Climate Change.
- OCWR receives first shipment of grant-funded food scrap pails for community distribution in support of organics recycling and education.



[WATCH THE VIDEO](#)



## August

- Fifth District Supervisor Katrina Foley and Second District Supervisor Vicente Sarmiento led Climate Resiliency Investigative Hearing with OC Waste & Recycling.
- Grand Jury tours Frank R. Bowerman Landfill.
- OCWR and Anaheim Ducks partner with OC educators, to produce "Bad Apples" educational outreach video.

[WATCH THE VIDEO](#)

## September


- OCWR begins recruitment of Sustainability Deputy Director.
- OCWR joins Supervisor Doug Chaffee's Fourth District kids fishing derby.
- OCWR attends WasteCon Conference in Boston.
- OCWR participates in Annual Silverado community cleanup event.






 WATCH THE VIDEO


## October

-  OCWR participates in Irvine Global Village Festival.


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-  OCWR shares recycling best practices at South County Disaster Expo.


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-  Lunch at the Landfill raised over \$33K for the United Way of Orange County.


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-  SB 1383 Educational outreach postcard was delivered to 50,000 residents.


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-  OCWR hosts pesticide collection event at Prima Deshecha Landfill collecting 2,650 pounds of pesticides.


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-  OCWR attends H2O for HOAs event to showcase compost and mulch products.


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-  OCWR's Director Tom Koutroulis featured on OC Talk Radio to talk about SB 1383 and reducing emissions of short-lived climate pollutants.


## November

-  Hosted successful countywide Compost Giveaway on November 4, distributing 168.9 tons of compost and mulch to residents.

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-  OCWR Celebrates America Recycles Day® campaign.

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-  OCWR's Director Tom Koutroulis chairs Resource Recovery and Waste & Recycling panel for related legislative and advisory board at California State Association of Counties (CSAC) and County Engineers Association of California (CEAC).







## December



Fifth District Supervisor Katrina Foley and OCWR celebrate ceremonial opening and VIP Ribbon Cutting of Prima Deshecha Landfill's new scale booth and entrance upgrades in San Juan Capistrano, marking a momentous step towards heightened efficiency, safety, and ecological sustainability.



Kimberly Ho is elected Chairwoman of the Waste Management Commission for 2024; Ted Bui is elected Vice Chairman.



OCWR partners with OC Fire Authority, OC Public Works and Third District Supervisor Don Wagner, to provide compost wattles to canyon residents for erosion control during the El Nino rain season.

ANNUAL REPORT 2023

# Ten-Year Financial Forecast





## Highlights of Ten-Year Financial Forecast

OC Waste & Recycling (OCWR) is responsible for the administration and management of Orange County’s solid waste disposal system. The department is structured as an enterprise fund and is primarily supported by revenues from waste management gate fees that are charged to customers. OC Waste & Recycling receives no tax revenues or County General Fund contributions to support its operations.

Although landfilling remains an essential public service, OCWR business model has evolved along with the changing environmental landscape, landfill diversion mandates and lack of local recycling infrastructure to support new legislation requirements from Senate Bill (SB) 1383. The department has developed the implementation plan for Waste Infrastructure System Enhancement (WISE) with a focus on increased organics operation, source recovery and renewable energy to support the regional need for organics processing capacity and the County jurisdictions in complying with SB 1383 diversion regulations. Since late 2023, the County has participated in the Environmental Protection Agency’s (EPA) Climate Pollution Reduction Grants competition (CPRG) and launched efforts to develop the first Climate Action Plan (CAP). OCWR is assigned to work in close partnership with other County departments in the CAP and in the competition for CPRG funding. If awarded, the funding will be used to modernize the County’s landfill gas management system and emission control technologies for the three active and two closed landfill sites.

The 10-Year Financial Forecast included in this Annual Report is for the period of FY 2023/24 through FY 2032/33. The projected tonnage anticipates a trend of significant decline starting FY 2025/26 due to impacts from the forecasted recession and the assumption of maximum organics recovery required by the SB 1383 statewide goal. Since Olinda Alpha landfill is projected to be filled earlier than the closure permit date in 2036, OCWR is the process of revising the Solid Waste Facility Permit (SWFP) for Prima Deshecha landfill to increase the daily intake tonnage at the site and to accommodate tonnage diversion from Olinda landfill. The department has also planned to continue accepting importation tonnage, which will be lower than current level intake, to supplement the future decrease in In-county tonnage revenue and to provide a stable source of net revenue sharing to the County and cities. Net importation revenue sharing to the County is expected to be in the range of over \$7 million a year then lower to under \$5 million a year starting FY 2026/27, with the same amount going to Orange County cities.

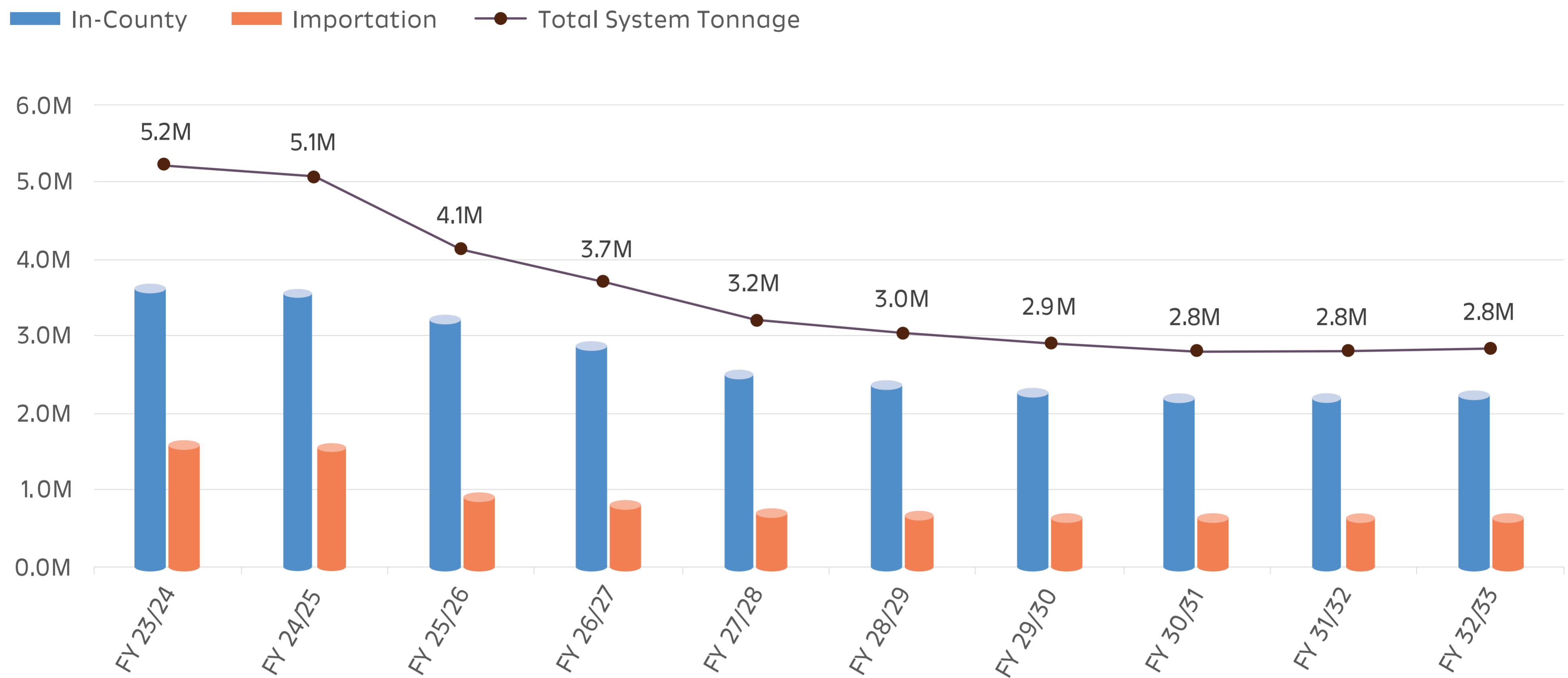
Forecasted system revenues (Exhibit B. Forecasted System Revenues) reflect a trend of tonnage revenue drop due to the projected disposal tonnage decline (CHART 1). Waste Disposal Agreement’s (WDA) disposal rate with projected annual CPI escalation is used to forecast system revenue pending negotiation for the new WISE Agreement’s rate structure.

Forecasted system expenses include significant capital project costs related to the future development of the landfill system, costs for organics infrastructure, specifically for the Central and South Region landfills’ source separated organics (SSO) facilities, anaerobic digesters (AD), material recovery facilities (MRF), and construction costs of a renewable natural gas (RNG) facility (Exhibit C. Forecasted System Expenses). Expenses are projected to be significantly higher than revenue in all the years of the forecasted period (CHART 2). Despite the department’s effort to strategically utilize reserves, maximize operational efficiencies, and closely monitor expenditures, OCWR will experience a negative operating cash flow (non-restricted portion) starting FY 2026/27, which deficit continues to deepen and draw out all other sources of earmarked and restricted cash in the years after 2030 (Exhibit D. Forecasted Cash Balances). The department is in dire need to obtain a new rate structure that provides sufficient financial inflows to sustain its operations, to restore the healthy cash flow, and to continue providing quality services to the County residents.

The schedule following CHART 1 and CHART 2 provides a two-year summary of audited financial data for fiscal years ending June 30, 2023, and 2022, respectively. In addition, detailed schedules for tonnage, revenues, expenses, cash balances and accrued closure and post-closure liabilities for the 10-year forecast period are presented in Exhibits A through F.

## System Tonnage (in millions)

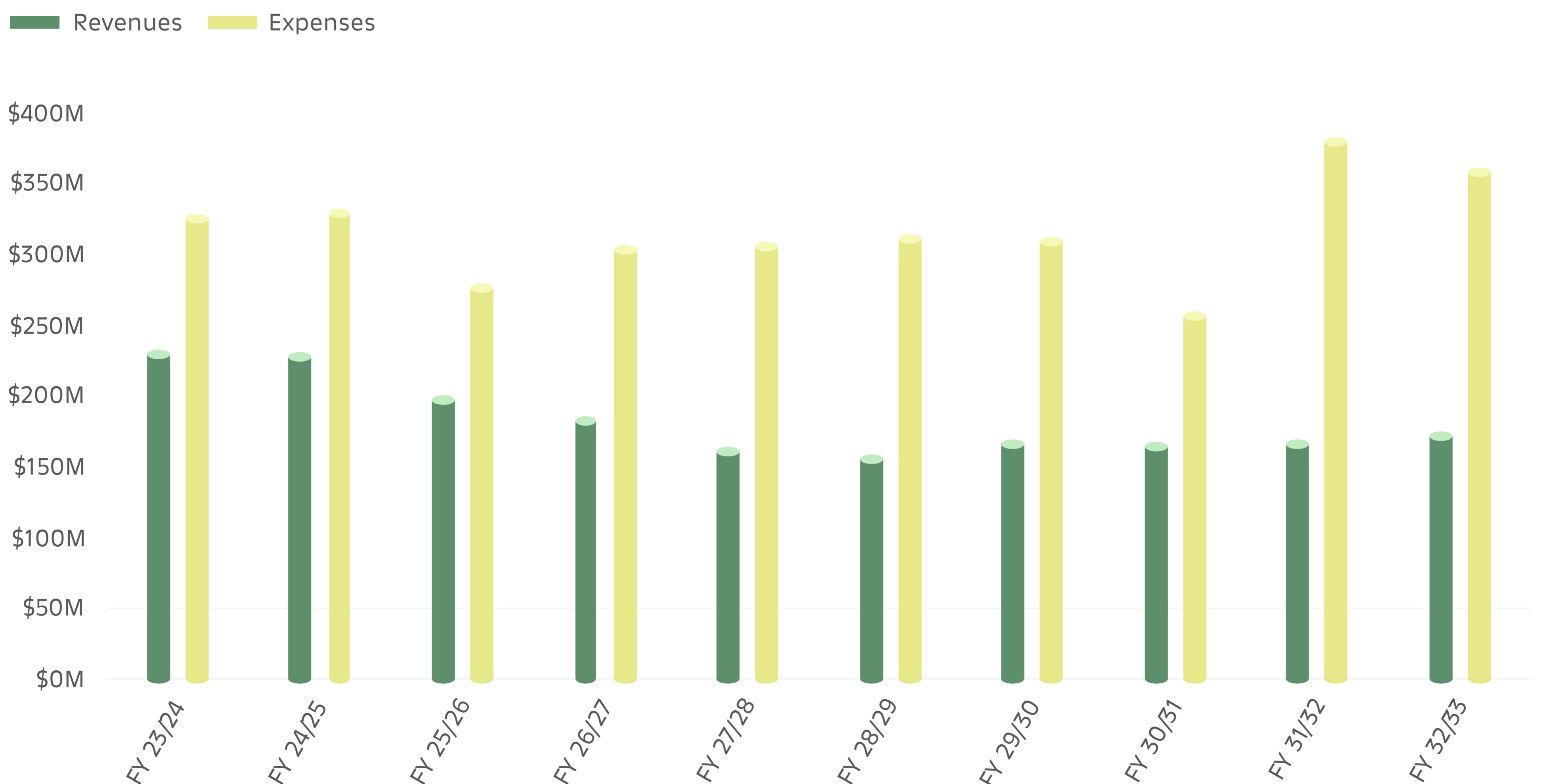
### CHART 1



## System Financial Projections (in millions)

Funds 273, 295 and 299

### CHART 2



# Tonnage & Audited Financial Data for Fiscal Years Ending June 30, 2023 & 2022

## Disposal Waste Tonnage <sup>[1]</sup>

	6/30/23	6/30/22
In-County	3,530,462	3,465,058
Importation	1,540,594	1,588,538
Total System Tonnage	5,071,056	5,053,596

## Statements of Revenues, Expenses and Changes in Fund Net Position For the Years Ended June 30, 2023 & 2022 <sup>[2]</sup>

	6/30/23	6/30/22
Total Revenues <sup>[3]</sup>	\$ 227,608,267	\$ 182,810,859
Total Expenses	\$ 170,790,571	\$ 142,952,173
Change in Net Position	\$ 56,817,696	\$ 39,858,686

## Cash Balances

	<sup>[4]</sup> 6/30/23	<sup>[4]</sup> 6/30/22
Enterprise/Operating Fund	\$ 322,348,911	\$ 266,337,453
Capital Project Fund	\$ 60,922,705	\$ 90,612,502
Corrective Action Escrow Fund	\$ 13,566,160	\$ 11,811,449
Environmental Reserve Fund	\$ 42,892,120	\$ 41,951,029
Deferred Payment Security Deposits Fund	\$ 1,206,432	\$ 934,982
Habitat Mitigation Escrow Funds	\$ 879,010	\$ 879,010

## Accrued Closure and Postclosure & Cash Balance

	<sup>[4]</sup> 6/30/23	<sup>[4]</sup> 6/30/22
Landfill Closure Liabilities	\$ 85,236,065	\$ 78,099,985
Landfill Postclosure Liabilities	\$ 118,568,487	\$ 111,276,659
Escrow Funds (Closure) Cash Balance <sup>[5]</sup>	\$ 101,249,951	\$ 95,238,427
Landfill Postclosure Cash Balance <sup>[5]</sup>	\$ 163,413,776	\$ 143,709,608

[1] Source: Disposal Reporting System (DRS) Monthly Tonnage Reports.

[2] Source: OC Waste & Recycling's 2023 & 2022 Financial Statements and Trial Balance audited by Eide Bailly LLP - Certified Public Accountants.

[3] Total Revenues increased by \$44.8M with \$14.4M increase in Operating Revenue and \$30.4M increase in Non-Operating Revenue primarily from higher interest income and fair value investment adjustments, and \$3M grant from CalRecycle.

[4] Source: Data is based on the 2nd Close figures obtained from County financial system reports.

[5] Source: Cash balance is based on the General Ledger report for the official June 30 year-end close.

## A. Forecasted System Tonnage

Description	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
Frank R. Bowerman Landfill	1,633,776	1,591,135	1,596,637	1,444,044	1,436,955
Olinda Alpha Landfill	1,360,000	1,360,000	1,065,000	856,800	318,200 <sup>[1]</sup>
Prima Deshecha Landfill	632,009	580,017	542,177	564,327	754,735
<b>Total In-County Tonnage</b>	<b>3,625,785</b>	<b>3,531,152</b>	<b>3,203,814</b>	<b>2,865,171</b>	<b>2,509,890</b>
Frank R. Bowerman Landfill	639,445	622,755	660,199	590,416	517,204
Olinda Alpha Landfill	770,000	770,000	0	0	0
Prima Deshecha Landfill	172,745	148,140	247,101	220,982	193,581
<b>Total Imported Tonnage</b>	<b>1,582,190</b>	<b>1,540,895</b>	<b>907,300</b>	<b>811,398</b>	<b>710,785</b>
<b>Total System Tonnage <sup>[3]</sup></b>	<b>5,207,975</b>	<b>5,072,046</b>	<b>4,111,114</b>	<b>3,676,569</b>	<b>3,220,675</b>

Description	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Frank R. Bowerman Landfill	1,521,194	1,465,495	1,405,084	1,408,460	1,429,430
Olinda Alpha Landfill	134,437	129,515	124,176	124,474	126,327
Prima Deshecha Landfill	701,657	675,966	648,101	649,658	659,330
<b>Total In-County Tonnage</b>	<b>2,357,288</b>	<b>2,270,976</b>	<b>2,177,361</b>	<b>2,182,592</b>	<b>2,215,087</b>
Frank R. Bowerman Landfill	485,758	467,972	448,681	449,759	456,455
Olinda Alpha Landfill	0	0	0	0	0
Prima Deshecha Landfill	181,811	175,154	167,934	168,337	170,843
<b>Total Imported Tonnage <sup>[2]</sup></b>	<b>667,569</b>	<b>643,126</b>	<b>616,615</b>	<b>618,096</b>	<b>627,298</b>
<b>Total System Tonnage <sup>[3]</sup></b>	<b>3,024,858</b>	<b>2,914,102</b>	<b>2,793,976</b>	<b>2,800,688</b>	<b>2,842,385</b>

[1] Olinda Alpha Landfill is projected to fill earlier than the permit date. Disposal tonnage of North Region will be diverted to Central and South Region landfills and Self-haul tonnage will be accepted at North Region for the Material Recovery Facility operation.

[2] Importation is planned to be continued with lower tonnage intake and is based on landfill system's capacity after Olinda closure.

[3] OCWR has been working on additional landfill cell constructions and permitting for tonnage diversion from North Region to other regions' landfills.

## B. Forecasted System Revenues

Description	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
Fund 299 Enterprise / Operating - Total Revenues <sup>[1] &amp; [2]</sup>	\$ 175,243,935	\$ 172,537,494	\$ 162,487,390	\$ 149,692,895	\$ 132,830,954
Fund 273 Capital Project / Operating - Total Revenues <sup>[3]</sup>	\$ 1,818,371	\$ 1,764,445	\$ 1,467,242	\$ 1,232,050	\$ 652,977
Fund 295 Importation Revenue Sharing - Total Revenues <sup>[4]</sup>	\$ 52,110,000	\$ 53,972,000	\$ 33,544,041	\$ 30,955,166	\$ 27,826,959
<b>Total Projected Revenues</b>	<b>\$ 229,172,306</b>	<b>\$ 228,273,940</b>	<b>\$ 197,498,674</b>	<b>\$ 181,880,111</b>	<b>\$ 161,310,890</b>

Description	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Fund 299 Enterprise / Operating - Total Revenues <sup>[1] &amp; [2]</sup>	\$ 127,090,115	\$ 139,602,285	\$ 137,240,186	\$ 140,015,611	\$ 144,362,741
Fund 273 Capital Project / Operating - Total Revenues <sup>[3]</sup>	\$ 460,247	\$ 318,554	\$ 437,111	\$ 209,124	\$ 218,398
Fund 295 Importation Revenue Sharing - Total Revenues <sup>[4]</sup>	\$ 26,919,132	\$ 26,711,484	\$ 26,122,588	\$ 26,709,037	\$ 27,648,805
<b>Total Projected Revenues</b>	<b>\$ 154,469,494</b>	<b>\$ 166,632,323</b>	<b>\$ 163,799,886</b>	<b>\$ 166,933,772</b>	<b>\$ 172,229,944</b>

[1] Current major sources of revenue for Fund 299 Operating include In-county disposal tonnage, interest earnings, lease & royalty, and recycling materials rebate.

[2] Future sources of revenue for Fund 299 Operating from Material Recovery Facility, Source Recovery, Biogas and RNG operations are estimated based on projected construction completion date and market rates.

[3] Interest earnings is the only revenue generated by Fund 273. Its annual interest earning projection is based on ending cash balance of prior year.

[4] Importation tonnage revenue is projected to decline significantly starting FY 2025/26 due to lower accepted tonnage.

## C. Forecasted System Expenses

System Expenses by Fund	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
Fund 299 Enterprise / Operating	\$ 192,605,357	\$ 215,915,899	\$ 182,170,213	\$ 206,483,520	\$ 194,705,646
Fund 273 Capital Project / Operating <sup>[1]</sup>	\$ 111,968,598	\$ 91,825,000	\$ 81,085,000	\$ 86,180,000	\$ 99,660,000
Fund 295 Importation Revenue Sharing <sup>[2]</sup>	\$ 20,210,000	\$ 20,542,000	\$ 12,765,234	\$ 11,704,989	\$ 10,450,770
<b>Total System Expenses</b>	<b>\$ 324,783,955</b>	<b>\$ 328,282,899</b>	<b>\$ 276,020,447</b>	<b>\$ 304,368,508</b>	<b>\$ 304,816,416</b>

System Expenses by Fund	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Fund 299 Enterprise / Operating	\$ 197,184,259	\$ 216,652,323	\$ 207,725,794	\$ 228,713,964	\$ 227,520,906
Fund 273 Capital Project / Operating <sup>[1]</sup>	\$ 104,110,000	\$ 83,310,000	\$ 38,660,000	\$ 140,360,000	\$ 121,060,000
Fund 295 Importation Revenue Sharing <sup>[2]</sup>	\$ 10,051,746	\$ 9,918,257	\$ 9,663,830	\$ 9,844,932	\$ 10,154,946
<b>Total System Expenses</b>	<b>\$ 311,346,005</b>	<b>\$ 309,880,579</b>	<b>\$ 256,049,624</b>	<b>\$ 378,918,896</b>	<b>\$ 358,735,852</b>

[1] Capital project expenditures are high in the forecasted period due to construction cost of new landfill cells and infrastructures planned for the Waste Infrastructure Enhancement System (WISE).

[2] Fund 295 Importation Revenue Sharing's expenses include Net Revenue Sharing to County & Cities, Host Fees and Special Tax for importation tonnage.

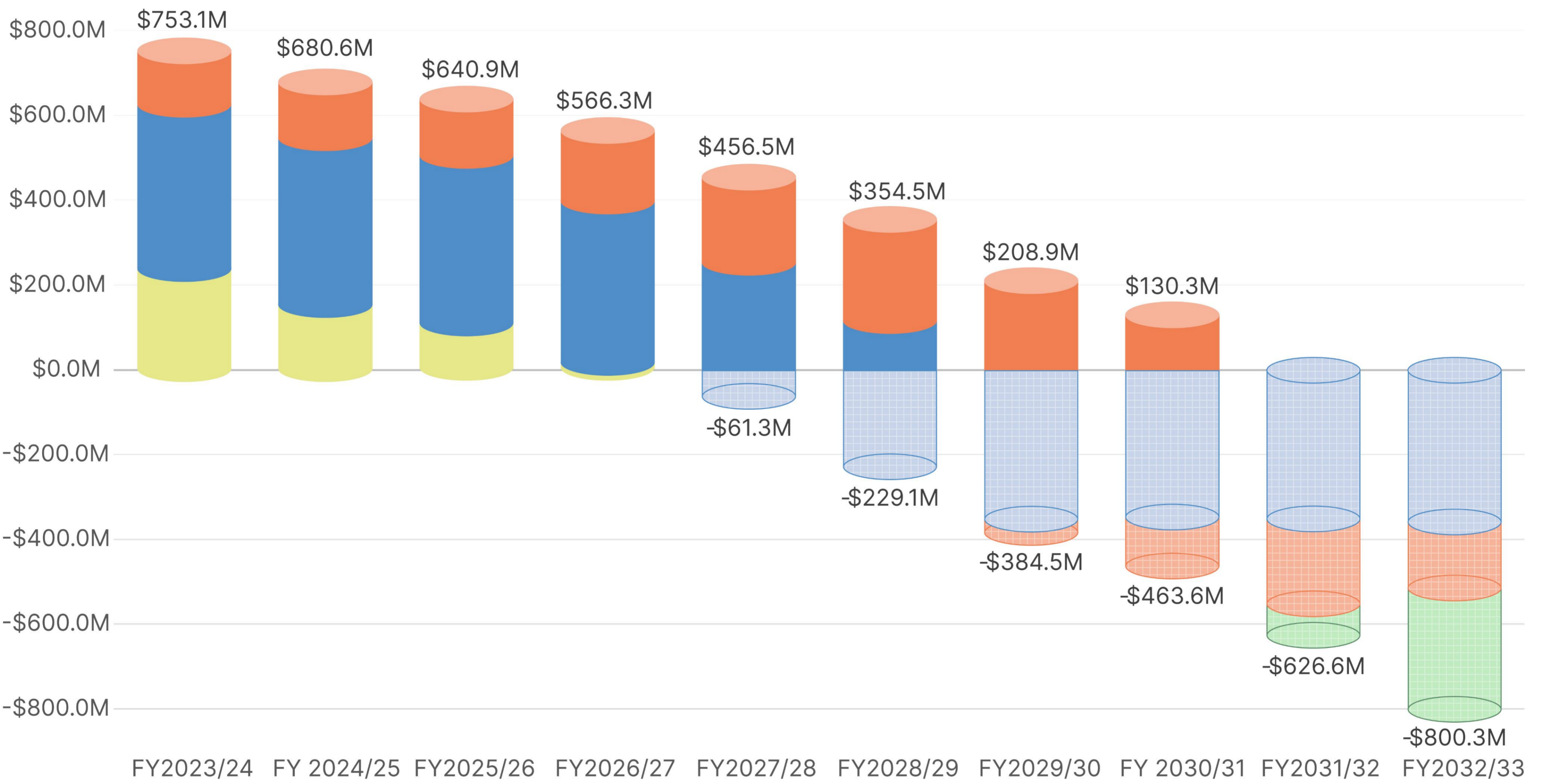




## D. Forecasted Cash Balance

### Total Forecasted Cash Balances

- Unrestricted Cash
- Earmarked Cash
- Earmarked Cash-Short Funded
- Restricted Cash
- Restricted Cash-Short Funded
- Other Cash-Short Funded



Cash Requirement	FY2023/24	FY 2024/25	FY2025/26	FY2026/27	FY2027/28	FY2028/29	FY2029/30	FY 2030/31	FY2031/32	FY2032/33
	\$513.4M	\$527.0M	\$530.8M	\$549.8M	\$517.8M	\$583.6M	\$593.4M	\$593.9M	\$554.6M	\$514.4M



## D. Forecasted Cash Balance

Ending Cash Balances		FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
<b>Fund 299</b>	OCWR Operating Fund	\$180.9M	\$104.7M	\$69.0M	-\$16.1M	-\$84.3M
<b>Fund 273</b>	Capital Project Fund	\$58.8M	\$48.9M	\$41.1M	\$32.6M	\$23.0M
<b>Total Unrestricted Operating Cash</b>		<b>\$239.7M</b>	<b>\$153.6M</b>	<b>\$110.1M</b>	<b>\$16.6M</b>	<b>-\$61.3M</b> <sup>[1]</sup>
<b>Fund 299</b>	Operating Cash Earmarked for Future Use	\$149.7M	\$160.2M	\$146.9M	\$129.2M	\$62.9M
<b>Fund 275</b>	Environmental Reserves Fund <sup>[2]</sup>	\$45.1M	\$46.5M	\$57.8M	\$59.6M	\$60.8M <sup>[2]</sup>
<b>Fund 279</b>	Postclosure Maintenance Fund	\$192.9M	\$188.8M	\$190.6M	\$192.4M	\$192.3M
<b>Total Cash Earmarked for Future Obligations</b>		<b>\$387.6M</b>	<b>\$395.5M</b>	<b>\$395.4M</b>	<b>\$381.2M</b>	<b>\$316.0M</b>
<b>Fund 276</b>	Deferred Payment Security Deposits	\$1.3M	\$1.3M	\$1.3M	\$1.3M	\$1.3M
<b>Fund 274</b>	Corrective Action Escrow Fund	\$14.3M	\$14.7M	\$15.1M	\$15.6M	\$15.9M
<b>Fund 288</b>	FRB Landfill Wetland & Agua Chinon Wash Riparian Escrow Fund	\$0.9M	\$0.9M	\$0.9M	\$0.0M	\$0.0M <sup>[3]</sup>
<b>Fund 286</b>	Olinda Alpha Closure Escrow Fund	\$49.5M	\$50.9M	\$52.5M	\$84.0M	\$115.7M
<b>Fund 284</b>	Frank R. Bowerman Closure Escrow Fund	\$33.3M	\$34.3M	\$35.4M	\$36.4M	\$37.1M
<b>Fund 287</b>	Prima Deshecha Closure Escrow Fund	\$26.6M	\$29.4M	\$30.3M	\$31.2M	\$31.8M
<b>Total Restricted Cash</b>		<b>\$125.8M</b>	<b>\$131.5M</b>	<b>\$135.4M</b>	<b>\$168.5M</b>	<b>\$201.9M</b>
<b>Total Fiscal Year End Cash Balances</b>		<b>\$753.1M</b>	<b>\$680.6M</b>	<b>\$640.9M</b>	<b>\$566.3M</b>	<b>\$456.5M</b>

Ending Cash Balances		FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
<b>Fund 299</b>	OCWR Operating Fund	-\$245.0M	-\$406.3M	-\$474.1M	-\$637.5M	-\$804.7M
<b>Fund 273</b>	Capital Project Fund	\$15.9M	\$21.9M	\$10.5M	\$10.9M	\$4.4M
<b>Total Unrestricted Operating Cash</b>		<b>-\$229.1M</b>	<b>-\$384.5M</b>	<b>-\$463.6M</b>	<b>-\$626.6M</b>	<b>-\$800.3M</b> <sup>[1]</sup>
<b>Fund 299</b>	Operating Cash Earmarked for Future Use	\$67.8M	\$71.5M	\$65.8M	\$70.1M	\$74.5M
<b>Fund 275</b>	Environmental Reserves Fund <sup>[2]</sup>	\$62.0M	\$63.2M	\$64.5M	\$65.8M	\$67.1M <sup>[2]</sup>
<b>Fund 279</b>	Postclosure Maintenance Fund	\$216.0M	\$216.1M	\$216.2M	\$216.3M	\$216.5M
<b>Total Cash Earmarked for Future Obligations</b>		<b>\$345.7M</b>	<b>\$350.8M</b>	<b>\$346.5M</b>	<b>\$352.2M</b>	<b>\$358.1M</b>
<b>Fund 276</b>	Deferred Payment Security Deposits	\$1.3M	\$1.3M	\$1.3M	\$1.3M	\$1.3M
<b>Fund 274</b>	Corrective Action Escrow Fund	\$16.2M	\$16.5M	\$16.9M	\$17.2M	\$17.5M
<b>Fund 288</b>	FRB Landfill Wetland & Agua Chinon Wash Riparian Escrow Fund	\$0.0M	\$0.0M	\$0.0M	\$0.0M	\$0.0M <sup>[3]</sup>
<b>Fund 286</b>	Olinda Alpha Closure Escrow Fund	\$148.0M	\$151.0M	\$154.0M	\$107.1M	\$59.2M
<b>Fund 284</b>	Frank R. Bowerman Closure Escrow Fund	\$37.9M	\$38.6M	\$39.4M	\$40.2M	\$41.0M
<b>Fund 287</b>	Prima Deshecha Closure Escrow Fund	\$34.4M	\$35.1M	\$35.8M	\$36.5M	\$37.3M
<b>Total Restricted Cash</b>		<b>\$237.9M</b>	<b>\$242.6M</b>	<b>\$247.4M</b>	<b>\$202.4M</b>	<b>\$156.4M</b>
<b>Total Fiscal Year End Cash Balances</b>		<b>\$354.5M</b>	<b>\$208.9M</b>	<b>\$130.3M</b>	<b>-\$72.0M</b>	<b>-\$285.9M</b>

[1] Total Unrestricted Operating Cash Balance is projected to be negative starting FY 2026/27. Total Cash Balances will be in deficit of \$285.9 million by FY 2032/33.

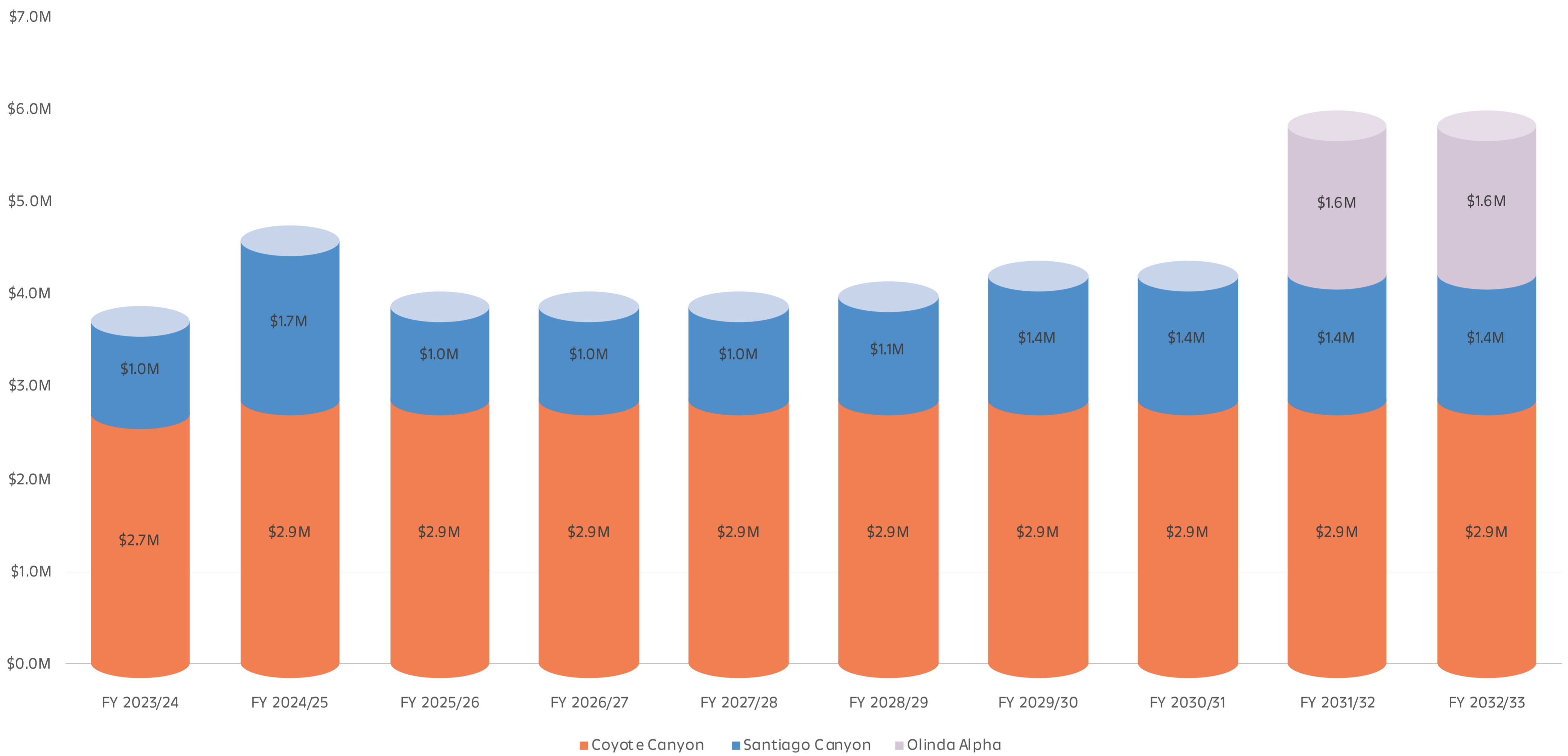
There will be no cash left to satisfy the cash requirement for required restricted escrows, for earmarks of AB 939 Surcharge programs and postclosure maintenance cost.

[2] Borrowing from other County departments will be repaid in full in FY 2023/24 and Fund 275 will reinstate the cap balance of \$70 million after FY 2032/33.

[3] Per the agreement with the California Department of Fish and Game for habitat mitigation, requirement for Fund 288 escrow is estimated to end in FY 2025/26.

## E. Landfill Postclosure Maintenance Fund

### Annual Postclosure Maintenance Expenditures



[1] Olinda Alpha Landfill is projected to start its 30-year postclosure maintenance period in FY 2031/32.



## F. Landfill Closure and Postclosure Liabilities

Frank R. Bowerman Landfill	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
Annual Tonnage of Refuse Buried	2,304,926	2,213,890	2,256,836	2,034,460	1,954,159
Maximum Permitted Capacity = 266 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	41.09%	42.37%	43.62%	44.75%	45.83%
Estimated Total Closure Cost	\$ 52,551,287	\$ 54,127,825	\$ 55,589,277	\$ 57,090,187	\$ 58,631,622
Accrued Closure Liability	\$ 21,593,324	\$ 22,933,960	\$ 24,248,042	\$ 25,547,859	\$ 26,870,872
Estimated 30-Year Postclosure Cost	\$ 59,522,838	\$ 61,308,523	\$ 62,963,853	\$ 64,663,877	\$ 66,409,802
Accrued Postclosure Liability	\$ 24,457,934	\$ 25,976,421	\$ 27,464,833	\$ 28,937,085	\$ 30,435,612

Olinda Alpha Landfill	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
Annual Tonnage of Refuse Buried	2,053,537	2,130,000	1,065,000	856,800	318,200
Maximum Permitted Capacity = 148.8 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	94.32%	97.20%	98.50%	99.20%	100.00%
Estimated Total Closure Cost	\$ 47,294,473	\$ 48,713,307	\$ 50,028,567	\$ 51,379,338	\$ 52,766,580
Accrued Closure Liability	\$ 44,608,147	\$ 47,052,184	\$ 48,887,915	\$ 50,675,441	\$ 52,223,084
Estimated 30-Year Postclosure Cost	\$ 47,191,747	\$ 48,607,499	\$ 49,919,901	\$ 51,267,738	\$ 52,651,967
Less Postclosure Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -
Accrued Postclosure Liability	\$ 44,511,607	\$ 46,947,893	\$ 48,780,817	\$ 50,564,992	\$ 52,108,400

Prima Deshecha Landfill - Zone 1	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28
Annual Tonnage of Refuse Buried	807,015	728,156	591,958	392,655	474,158
Maximum Permitted Capacity = 53.1 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	81.36%	83.75%	85.69%	86.98%	88.53%
Estimated Total Closure Cost	\$ 30,137,888	\$ 31,042,025	\$ 31,880,159	\$ 32,740,924	\$ 33,624,929
Accrued Closure Liability	\$ 24,520,186	\$ 25,997,696	\$ 27,318,109	\$ 28,478,056	\$ 29,768,149
Estimated 30-Year Postclosure Cost	\$ 47,768,396	\$ 49,201,448	\$ 50,529,887	\$ 51,894,194	\$ 53,295,337
Accrued Postclosure Liability	\$ 38,864,367	\$ 41,206,213	\$ 43,299,060	\$ 45,132,381	\$ 47,171,703

[1] Final closure for Olinda Alpha Landfill is projected to start by CY 2028. Postclosure maintenance will begin in FY 2031/32.

Accrued closure liability for Olinda Alpha Landfill is based on cost estimate approved by Cal Recycle in 2020. New cost projection is significantly higher and pending submission to Cal Recycle for review and approval.

[2] Prima Deshecha Landfill Zone 4 is estimated to start accepting waste in FY 2025/26.

[3] Coyote Canyon Landfill will complete its 30 year postclosure period in FY 2024/25 and GASB 18 liability accrual is no longer required. However, OCWR will continue to accrue liability based on 15 year of annual maintenance cost estimate.

## F. Landfill Closure and Postclosure Liabilities

<b>Prima Deshecha Landfill - Zone 4</b>	<b>FY 2023/24</b>	<b>FY 2024/25</b>	<b>FY 2025/26</b>	<b>FY 2026/27</b>	<b>FY 2027/28</b>
Annual Tonnage of Refuse Buried	0	0	197,319	392,655	474,158
Maximum Permitted Capacity = 118.5 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	0.00%	0.00%	0.29%	0.87%	1.56%
Estimated Total Closure Cost	\$ 52,714,931	\$ 54,296,379	\$ 55,762,381	\$ 57,267,965	\$ 58,814,200
Accrued Closure Liability	\$ -	\$ -	\$ 161,711	\$ 498,231	\$ 917,502
Estimated 30-Year Postclosure Cost	\$ 54,193,456	\$ 55,819,261	\$ 57,326,382	\$ 58,874,195	\$ 60,463,799
Accrued Postclosure Liability	\$ -	\$ -	\$ 166,247	\$ 506,318	\$ 937,189

<b>Santiago Canyon Landfill</b>	<b>FY 2023/24</b>	<b>FY 2024/25</b>	<b>FY 2025/26</b>	<b>FY 2026/27</b>	<b>FY 2027/28</b>
Estimated Remaining Postclosure Cost	\$ 12,717,443	\$ 11,234,240	\$ 11,082,103	\$ 10,166,602	\$ 9,192,848
Annual Postclosure Maintenance	\$ (1,002,000)	\$ (1,719,200)	\$ (1,011,700)	\$ (1,011,700)	\$ (1,011,700)
Accrued Postclosure Liability Balance	\$ 13,719,443	\$ 12,953,440	\$ 12,093,803	\$ 11,178,302	\$ 10,204,548
Optional Accrued Postclosure Reserves	\$ -	\$ 1,000,000	\$ 2,040,000	\$ 3,121,200	\$ 4,244,832

<b>Coyote Canyon Landfill</b>	<b>FY 2023/24</b>	<b>FY 2024/25</b>	<b>FY 2025/26</b>	<b>FY 2026/27</b>	<b>FY 2027/28</b>
Estimated Remaining Postclosure Cost	\$ 3,201,212	\$ 24,800,000	\$ 23,146,600	\$ 21,443,598	\$ 19,689,506
Annual Postclosure Maintenance	\$ 1,600,606	\$ 1,653,400	\$ 1,703,002	\$ 1,754,092	\$ 1,806,715
Accrued Postclosure Liability Balance	\$ 1,600,606	\$ 23,146,600	\$ 21,443,598	\$ 19,689,506	\$ 17,882,791
Estimated Actual Postclosure Reversal	\$ (2,700,000)	\$ (2,850,000)	\$ (2,850,000)	\$ (2,850,000)	\$ (2,850,000)
Required / Funded Postclosure		\$ 24,800,000			

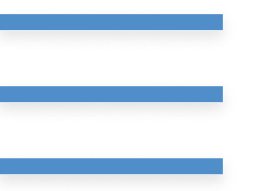
<b>Total Accrued Liability</b>	<b>FY 2023/24</b>	<b>FY 2024/25</b>	<b>FY 2025/26</b>	<b>FY 2026/27</b>	<b>FY 2027/28</b>
Total Accrued Closure Liability	\$ 90,721,657	\$ 95,983,839	\$ 100,615,777	\$ 105,199,587	\$ 109,779,608
Total Accrued Postclosure Liability	\$ 123,153,956	\$ 150,230,567	\$ 153,248,358	\$ 156,008,584	\$ 158,740,243
Total Accrued Postclosure Reserves	\$ -	\$ 25,800,000	\$ 2,040,000	\$ 3,121,200	\$ 4,244,832
<b>Total Accrued Closure &amp; Postclosure Liability</b>	<b>\$ 213,875,613</b>	<b>\$ 272,014,406</b>	<b>\$ 255,904,135</b>	<b>\$ 264,329,370</b>	<b>\$ 272,764,682</b>

[1] Final closure for Olinda Alpha Landfill is projected to start by CY 2028. Postclosure maintenance will begin in FY 2031/32.

Accrued closure liability for Olinda Alpha Landfill is based on cost estimate approved by Cal Recycle in 2020. New cost projection is significantly higher and pending submission to Cal Recycle for review and approval.

[2] Prima Deshecha Landfill Zone 4 is estimated to start accepting waste in FY 2025/26.

[3] Coyote Canyon Landfill will complete its 30 year postclosure period in FY 2024/25 and GASB 18 liability accrual is no longer required. However, OCWR will continue to accrue liability based on 15 year of annual maintenance cost estimate.



## F. Landfill Closure and Postclosure Liabilities

Frank R. Bowerman Landfill	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Annual Tonnage of Refuse Buried	2,141,389	2,062,982	1,977,941	1,982,693	2,012,212
Maximum Permitted Capacity = 266 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	47.02%	48.16%	49.26%	50.36%	51.47%
Estimated Total Closure Cost	\$ 60,214,676	\$ 61,840,472	\$ 63,510,165	\$ 65,224,939	\$ 66,986,013
Accrued Closure Liability	\$ 28,312,941	\$ 29,782,371	\$ 31,285,107	\$ 32,847,279	\$ 34,477,701
Estimated 30-Year Postclosure Cost	\$ 68,202,867	\$ 70,044,344	\$ 71,935,541	\$ 73,877,801	\$ 75,872,502
Accrued Postclosure Liability	\$ 32,068,988	\$ 33,733,356	\$ 35,435,447	\$ 37,204,861	\$ 39,051,577

Olinda Alpha Landfill	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Annual Tonnage of Refuse Buried	0	0	0	0	0
Maximum Permitted Capacity = 148.8 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	100.00%	100.00%	100.00%	100.00%	100.00%
Estimated Total Closure Cost	\$ 54,296,811	\$ 55,871,418	\$ 57,491,690	\$ 59,158,949	\$ 60,874,558
Accrued Closure Liability	\$ 53,737,554	\$ 55,295,943	\$ 56,899,525	\$ 58,549,611	\$ 60,247,550
Estimated 30-Year Postclosure Cost	\$ 54,073,570	\$ 55,533,556	\$ 57,032,962	\$ 58,572,852	\$ 60,154,319
Less Postclosure Expenditures	\$ -	\$ -	\$ -	\$ 1,591,812	\$ 1,623,648
Accrued Postclosure Liability	\$ 53,515,327	\$ 54,960,241	\$ 56,444,167	\$ 57,968,160	\$ 59,533,300

Prima Deshecha Landfill - Zone 1	FY 2028/29	FY 2029/30	FY 2030/31	FY 2031/32	FY 2032/33
Annual Tonnage of Refuse Buried	441,734	425,560	408,018	408,998	415,087
Maximum Permitted Capacity = 53.1 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	89.98%	91.37%	92.71%	94.05%	95.41%
Estimated Total Closure Cost	\$ 34,532,802	\$ 35,465,187	\$ 36,422,748	\$ 37,406,162	\$ 38,416,128
Accrued Closure Liability	\$ 31,072,615	\$ 32,404,542	\$ 33,767,529	\$ 35,180,495	\$ 36,652,828
Estimated 30-Year Postclosure Cost	\$ 54,734,311	\$ 56,212,137	\$ 57,729,865	\$ 59,288,571	\$ 60,889,362
Accrued Postclosure Liability	\$ 49,238,986	\$ 51,355,408	\$ 53,509,812	\$ 55,749,043	\$ 58,082,362

[1] Final closure for Olinda Alpha Landfill is projected to start by CY 2028. Postclosure maintenance will begin in FY 2031/32.

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[2] Prima Deshecha Landfill Zone 4 is estimated to start accepting waste in FY 2025/26.

[3] Coyote Canyon Landfill will complete its 30 year postclosure period in FY 2024/25 and GASB 18 liability accrual is no longer required. However, OCWR will continue to accrue liability based on 15 year of annual maintenance cost estimate.



## F. Landfill Closure and Postclosure Liabilities

<b>Prima Deshecha Landfill - Zone 4</b>	<b>FY 2028/29</b>	<b>FY 2029/30</b>	<b>FY 2030/31</b>	<b>FY 2031/32</b>	<b>FY 2032/33</b>
Annual Tonnage of Refuse Buried	441,734	425,560	408,018	408,998	415,087
Maximum Permitted Capacity = 118.5 MCY	100%	100%	100%	100%	100%
% of Maximum Capacity Filled	2.21%	2.84%	3.43%	4.04%	3.00%
Estimated Total Closure Cost	\$ 60,402,183	\$ 62,033,042	\$ 63,707,934	\$ 65,428,048	\$ 67,194,605
Accrued Closure Liability	\$ 1,334,888	\$ 1,761,738	\$ 2,185,182	\$ 2,643,293	\$ 2,015,838
Estimated 30-Year Postclosure Cost	\$ 62,096,323	\$ 63,772,925	\$ 65,494,795	\$ 67,263,155	\$ 69,079,261
Accrued Postclosure Liability	\$ 1,359,909	\$ 1,359,909	\$ 1,359,909	\$ 1,359,909	\$ 1,359,909

<b>Santiago Canyon Landfill</b>	<b>FY 2028/29</b>	<b>FY 2029/30</b>	<b>FY 2030/31</b>	<b>FY 2031/32</b>	<b>FY 2032/33</b>
Estimated Remaining Postclosure Cost	\$ 8,058,362	\$ 6,720,574	\$ 5,556,821	\$ 4,324,341	\$ 3,020,271
Annual Postclosure Maintenance	\$ (1,111,700)	\$ (1,351,700)	\$ (1,351,700)	\$ (1,351,700)	\$ (1,351,700)
Accrued Postclosure Liability Balance	\$ 9,170,062	\$ 8,072,274	\$ 6,908,521	\$ 5,676,041	\$ 4,371,971
Optional Accrued Postclosure Reserves	\$ 5,412,161	\$ 6,624,485	\$ 7,883,137	\$ 9,189,485	\$ 10,544,934

<b>Coyote Canyon Landfill</b>	<b>FY 2028/29</b>	<b>FY 2029/30</b>	<b>FY 2030/31</b>	<b>FY 2031/32</b>	<b>FY 2032/33</b>
Estimated Remaining Postclosure Cost	\$ 17,882,791	\$ 16,021,875	\$ 26,105,131	\$ 24,130,885	\$ 22,097,412
Annual Postclosure Maintenance	\$ 1,860,916	\$ 1,916,744	\$ 1,974,246	\$ 2,033,473	\$ 2,094,478
Accrued Postclosure Liability Balance	\$ 16,021,875	\$ 14,105,131	\$ 24,130,885	\$ 22,097,412	\$ 20,002,934
Estimated Actual Postclosure Reversal	\$ (2,850,000)	\$ (2,850,000)	\$ (2,850,000)	\$ (2,850,000)	\$ (2,850,000)
Required / Funded Postclosure		\$ 12,000,000			

<b>Total Accrued Liability</b>	<b>FY 2028/29</b>	<b>FY 2029/30</b>	<b>FY 2030/31</b>	<b>FY 2031/32</b>	<b>FY 2032/33</b>
Total Accrued Closure Liability	\$ 114,457,998	\$ 119,244,594	\$ 124,137,344	\$ 129,220,679	\$ 133,393,917
Total Accrued Postclosure Liability	\$ 161,375,147	\$ 163,586,319	\$ 177,788,741	\$ 180,055,426	\$ 182,402,053
Total Accrued Postclosure Reserves	\$ 5,412,161	\$ 18,624,485	\$ 7,883,137	\$ 9,189,485	\$ 10,544,934
<b>Total Accrued Closure &amp; Postclosure Liability</b>	<b>\$ 281,245,305</b>	<b>\$ 301,455,399</b>	<b>\$ 309,809,222</b>	<b>\$ 318,465,590</b>	<b>\$ 326,340,904</b>

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[2] Prima Deshecha Landfill Zone 4 is estimated to start accepting waste in FY 2025/26.

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