



COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

2021 Annual Report

December 2022

Countywide Summary Plan &
Countywide Siting Element



Public Works
LOS ANGELES COUNTY

2021 Annual Report
County of Los Angeles Countywide Integrated Waste Management Plan

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ACRONYMS AND GLOSSARY OF TERMS

ADC	Alternative Daily Cover
County	County of Los Angeles (Los Angeles County)
CSE	Countywide Siting Element (Siting Element)
LUP/CUP	Land Use Permit/Conditional Use Permit
DRS/RDRS	Disposal Reporting System/Recycling and Disposal Reporting System
EIR	Environmental Impact Report
EMSW	Engineered Municipal Solid Waste
EPR	Extended Producer Responsibility
FOC	Finding of Conformance
IDEFO	Inert Debris Engineered Fill Operation
LARA	Los Angeles Regional Agency also known as Los Angeles Area Integrated Waste Management Authority
LEA	Local Enforcement Agency
Public Works	Los Angeles County Public Works
PPD	Pounds per Person per Day
Regional Planning	County of Los Angeles Department of Regional Planning
Sanitation Districts	Sanitation Districts of Los Angeles County
SRRE	Source Reduction and Recycling Element
Summary Plan	Los Angeles County Countywide Integrated Waste Management Summary Plan
SWFP	Solid Waste Facility Permit
SWIMS	Solid Waste Information Management System
Task Force	Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force
TPD	Tons per Day, Based on 6 Operating Days per Week (tpd-6)
TPW	Tons per Week
TPY	Tons per Year
UCLA	University of California, Los Angeles
CalRecycle	California Department of Resources Recycling and Recovery

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WHAT IS THE ANNUAL REPORT

The California Integrated Waste Management Act of 1989, also known as Assembly Bill (AB) 939, mandates jurisdictions to meet a diversion goal of 50 percent by the year 2000, and thereafter. In addition, each county is also required to prepare and administer a Countywide Integrated Waste Management Plan. This plan is comprised of the County's (and its cities') solid waste reduction planning documents, an Integrated Waste Management Summary Plan (Summary Plan), and a Countywide Siting Element (CSE). To assess compliance with AB 939, the Disposal Reporting System (DRS) was established to measure the amount of disposal from each jurisdiction. Comparing current disposal rates to base-year solid waste generation determines whether each jurisdiction complies with the diversion mandate.

Los Angeles County Public Works (Public Works) is responsible for preparing the Summary Plan and the CSE. These documents were approved by the County, the County's cities containing a majority of the County's population, the County Board of Supervisors (Board), and the California Department of Resources, Recycling, and Recovery (CalRecycle).

The Summary Plan, approved by CalRecycle on June 23, 1999, describes the steps to be taken by local agencies, acting independently and in concert, to achieve the state mandated diversion rate by integrating strategies aimed toward reducing, reusing, recycling, diverting, and marketing solid waste generated within the County.

The CSE, approved by CalRecycle on June 24, 1998, identifies how the County and its cities would meet their long-term disposal capacity needs for a 15-year planning period to safely handle solid waste generated in the County that cannot be reduced, recycled, or composted.

The Electronic Annual Report (EAR), which contains an assessment of the Summary Plan and Siting Element, was submitted to CalRecycle on August 2, 2021.

The purpose of the Annual Report is to provide an annual update to the Summary Plan and CSE. Public Works prepares the Annual Report to summarize the changes in solid waste management that have taken place since the approval of the Summary Plan and the CSE, including updated strategies to meet the long-term needs and maintain adequate disposal capacity.



**SUMMARY PLAN AND SITING ELEMENT ASSESSMENT
ELECTRONIC ANNUAL REPORT (EAR)**

Summary Plan Assessment

Summary Plan

1. Question:

Does the Summary Plan need to be revised?

Response:

No.

Siting Element Assessment

Total County or Agency Wide Disposal Capacity

1. Question:

Based on the best available estimates of current and future disposal, how many years of disposal capacity does your county or regional agency have?

Response:

15

Total County or Agency Wide Disposal Capacity

2. Question:

If you do not currently have 15 years of disposal capacity, describe your strategy for obtaining 15 years of capacity?

Response:

Not applicable.

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Siting Element Adequacy

3. Question:

Does the Siting Element need to be revised? The Siting Element will need to be revised if you have less than 15 years disposal capacity and have not described a strategy for obtaining 15 years disposal capacity.

Response:

Yes. On August 2, 2022, the County of Los Angeles Board of Supervisors certified the Final Environmental Impact Report and its associated environmental documents for the Los Angeles County Revised Countywide Siting Element (Revised Siting Element), as well as authorized Los Angeles County Public Works, acting as the lead agency, to release and submit the Revised Siting Element to each city within Los Angeles County for a State-mandated 90-day approval period. See time schedule:

Board authorization to release the Final Draft CSE and EIR to the cities for local adoption	August 2, 2022 (Completed)
Board of Supervisors' public hearing for final approval of the Final Draft CSE and Certified EIR (upon local adoption)	May 2023
CalRecycle review and approval	October 2023

The Revised Siting Element provides a description of the areas and strategies that may be used to address the State mandates for adequate disposal capacity during the planning period and discusses how those areas and strategies may help the County meet the disposal capacity requirements under various scenarios. The areas/strategies considered include the use of existing permitted disposal capacity, increase in diversion rates, utilization of out-of-County disposal facilities, and fostering the development of technologies that provide alternatives to landfill disposal. Please note that there are no proposed new or expansion of existing landfill and transformation facilities in the County identified in the Revised Siting Element.

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SUMMARY PLAN

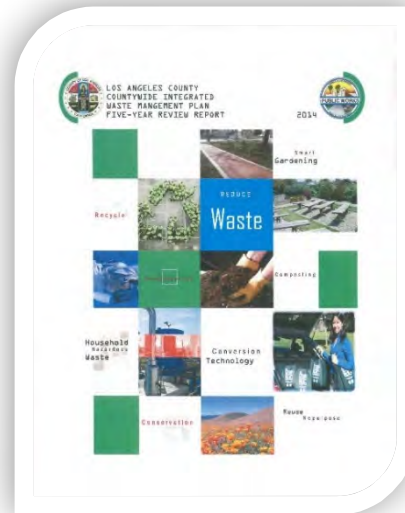
The Summary Plan, approved by CalRecycle in 1999, was prepared by the County to describe the steps to be taken by individual jurisdictions, acting independently and in concert, to achieve the 50 percent waste diversion mandate. Since 1999, the County and its cities have experienced several changes in regional solid waste management, demographics, economics, and public awareness of environmental stewardship. The County and cities continue to enhance and expand their waste reduction efforts while also adapting these strategies to changing conditions.

Individual jurisdictions within the County of Los Angeles continue to implement and enhance waste reduction, recycling, special waste, and public education programs identified in their Source Reduction and Recycling Elements, Household Hazardous Waste Element, and Non-Disposal Facility Element (as updated

through their Annual Reports). Through the Countywide and regional programs implemented by the County and the cities, most jurisdictions have already met the 50 percent mandate and achieved significant, measurable results.

The County's latest Five-Year Review Report was approved by CalRecycle on October 13, 2020 and determined that an update to the Summary Plan was not necessary.

The following section is a summary discussion on the various regional solid waste issues that currently play a significant role in the County's continuing solid waste management efforts, including recent legislation, markets for recyclable materials, development of alternative technology facilities, diversion credit for such facilities, and the State's 75 percent recycling goal.



REGIONAL SOLID WASTE ISSUES

Disposal Trend

The amount of waste that residents and businesses generate and dispose of in the County has increased over the last decade. **Figure 1** shows a plateau between the years 2012 and 2014 with an increase from 2014 to 2017. The disposal remained relatively consistent from 2017 to 2019 but experienced another slight increase in 2020, ultimately flattening out from 2020 to the present.

Figure 1: Disposal Trend

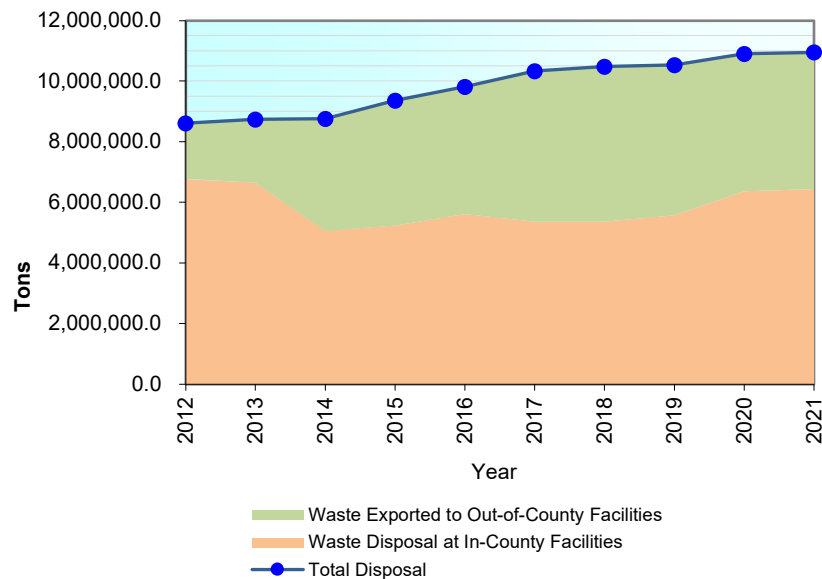
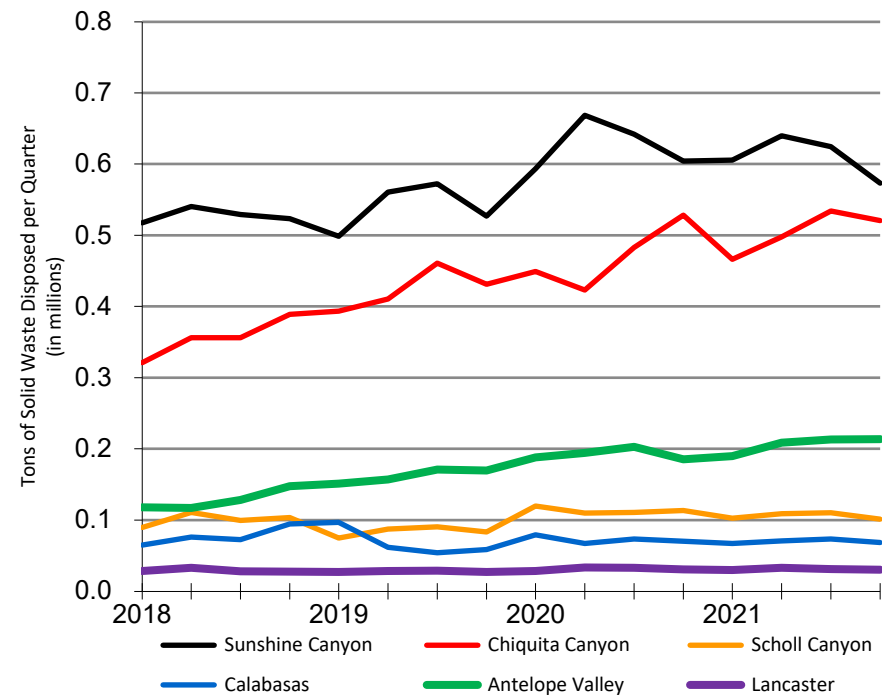


Figure 2 shows the disposal trends of major landfills within the County.

Figure 2: Disposal Trend at Major Landfills



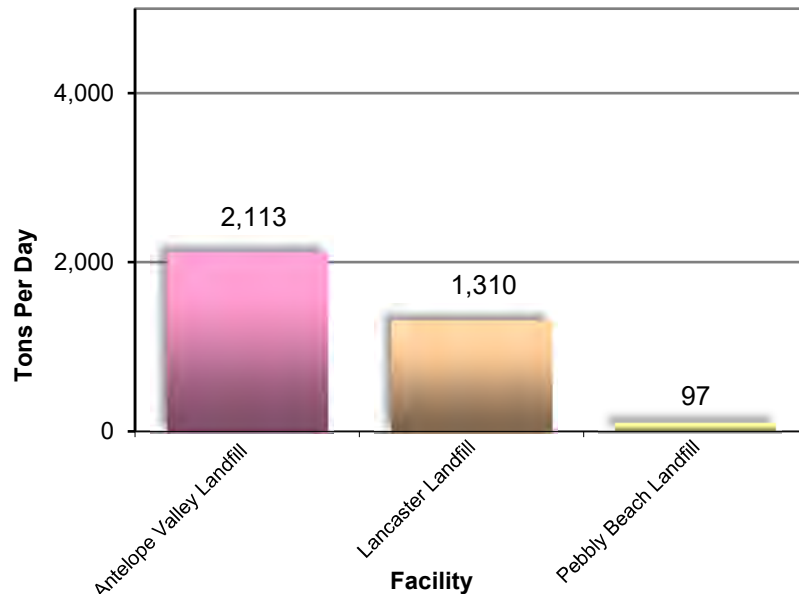
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Green Waste as Alternative Daily Cover

Due to the closure of Puente Hills Landfill in October 2013, jurisdictions that once depended on the facility to recycle their green waste as alternative daily cover (ADC) looked to other sites to recycle or compost their green waste. **Figure 3** shows the amount of green waste used as ADC at in-County landfills.

Figure 3: Use of Green Waste as ADC in 2021



Note: Data as of July 2022

Since the closure of Puente Hills, the County, the cities, and the waste management industry have been working towards developing alternatives for managing green waste. However, there are many challenges associated with green waste management, such as green waste capacity within the County due to difficulties in permitting and developing composting facilities, limited markets for compost made from green waste, and costs for long-distance transportation to out-of-County facilities and operations.

In addition, Assembly Bill (AB) 1594, which was signed by Governor Brown on September 28, 2014, provides that on and after January 1, 2020, green waste used as ADC will no longer receive diversion credit and will be considered disposal for purposes of AB 939. The passage of this bill encourages the County, the cities, and the waste management industry to develop alternatives for managing green waste.

Adequacy of Permitted Disposal Capacity

As detailed in the section titled **Strategy for Maintaining Adequate Disposal Capacity** (Page 26), a shortfall in permitted solid waste disposal capacity within the County is not anticipated to occur within the next 15 years under current conditions. To meet disposal capacity needs during the planning period, jurisdictions in the County must further increase their waste reduction and diversion efforts, continue to encourage the development of alternative technologies, support the exportation of waste to out-of-County facilities, utilize the Waste-by-Rail system to Mesquite Regional Landfill, and, if found

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to be environmentally sound and technically feasible, expand in-County Class III landfill capacity.

Waste-by-Rail System

The Waste-by-Rail (WBR) system is comprised of a remote intermodal yard and disposal facility, local materials recovery facilities/transfer stations, a local intermodal rail yard, and rail transportation. The starting point of the waste-by-rail system is the Puente Hills Intermodal Facility (PHIMF), located near the Puente Hills Materials Recovery Facility. Residual waste from materials recovery facilities and transfer stations located throughout the County will be loaded onto rail carts at the PHIMF, and then transported via rail to the Mesquite Regional Landfill (MRL) for disposal.

The Sanitation Districts have completed planning and development of all the WBR system components. The PHIMF will facilitate intermodal transfer of containers of up to two trains per day, or approximately 8,000 tpd of municipal solid waste.



The operation of the MRL and the WBR system is entirely dependent on the availability of in-county and near-county disposal capacity, diversion from landfills, and the cost of disposal. When the MRL/WBR disposal capacity is needed and when the tipping fees make MRL/WBR economically viable, then the system may begin operation. However, for the purpose of the disposal analysis in this report, the WBR system is assumed to begin its operation in 2025.

The WBR system will help ensure that solid waste disposal services continue to be provided to jurisdictions in Los Angeles County without interruption throughout the 15-year planning period, and into the future.

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Los Angeles County's Conversion Technology Efforts

To address the fraction of the waste stream that cannot be feasibly recycled, the development of conversion technology (CT) facilities is a vital aspect of the new paradigm and necessary to achieve a sustainable waste management future. Through the County's CT Program, Public Works continues to support and advance the efforts to establish CT facilities in Los Angeles County. The goal is to promote the highest and best use of resources while supporting the State's key environmental goals.

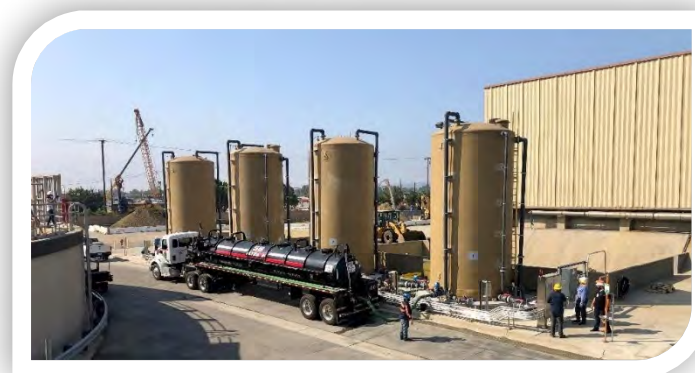
Public Works serves as the chair of the Los Angeles County Integrated Waste Management Task Force's Alternative Technology Advisory Subcommittee. This group evaluates and promotes the development of CT projects in Southern California, such as the ones described below.

Calabasas Landfill Anaerobic Digestion Facility

In June 2022, Public Works released a Request for Proposals (RFP) to engage a private partner in the development of an anaerobic digestion (AD) facility at the County-owned Calabasas Landfill. When a potential developer is selected, Public Works will request approval from the Board of Supervisors (Board) to enter an exclusive negotiating agreement. With Board approval, the private developer will be responsible for designing, building, owning, and operating the AD facility.

CR&R Waste and Recycling Services Anaerobic Digestion Facility

CR&R Waste and Recycling Services has begun operating the first two phases of an anaerobic digestion (AD) facility at their material recovery facility (MRF) and transfer station in Perris, CA. The facility has plans to scale up in four equal phases and ultimately digest up to 335,000 tons per year (tpy). Phases I and II have a total capacity of 167,500 tpy. CR&R is currently in the process of obtaining permits for the next two phases and has a goal for Phase III and Phase IV to begin operating by 2025. This project turns residential green waste and food waste into fuel that is used by the company's waste collection vehicles and into biomethane that is injected into the natural gas pipeline. In addition, CR&R has completed construction of an on-site organic waste MRF that is now fully operational. Public Works assisted CR&R in obtaining funding and provided technical assistance to the developers.



JWPCP holding tanks for food waste slurry. Photo courtesy of Los Angeles County Sanitation Districts

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Sanitation Districts of Los Angeles County - Food Waste Processing

The Sanitation Districts of Los Angeles County (Sanitation Districts) use a DODA® bio-separator food waste pre-processing technology at the Puente Hills MRF (PHMRF) to remove contaminants from source-separated food waste. The capacity of the bio-separator is 165 tpd of food waste and it currently processes an average of 45 tpd of food waste. The food waste is processed into a slurry at the PHMRF and then transported to the Districts' Joint Water Pollution Control Plant (JWPCP) in Carson, CA for co-digestion.

The Sanitation Districts continue to expand their food waste co-digestion project at JWPCP. The capacity recently increased from 350 tpd to 600 tpd. In addition to food waste slurry from PHMRF, JWPCP also receives 300 tpd of food waste slurry through various contracts and is seeking additional long-term contracts. The biogas from co-digestion is used to create renewable power for the facility as well as vehicle fuel for the existing on-site fueling station.

Since July 2016, the County in partnership with the PHMRF has provided a rebate incentive to waste haulers that collect uncontaminated food waste diverted from commercial accounts in the unincorporated Los Angeles County areas and deliver the food waste to the PHMRF. Currently, one waste hauler is participating and providing food waste diversion services to four supermarkets in the San Gabriel Valley area. As of December 2021, the project has successfully diverted over 2,979 tons of food waste. The food waste is sent to the PHMRF

for pre-processing and is eventually anaerobically digested JWPCP.

Rialto Bioenergy Facility

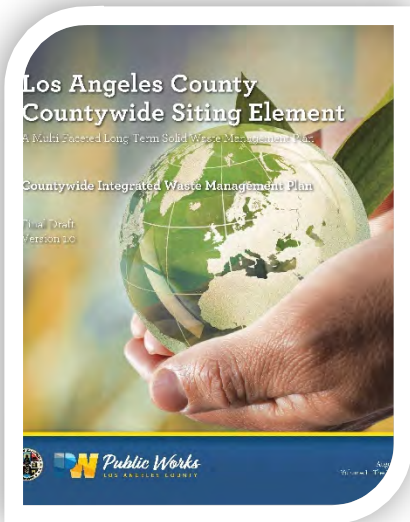
In 2020, Anaergia's Rialto Bioenergy Facility began operating. The facility uses anaerobic digestion to convert 700 tons per day of organic waste and 300 tons per day biosolids from municipal wastewater treatment plants into biomethane which is injected into the natural gas pipeline. Anaergia's Organics Extrusion Press (OREX) operates at Waste Management's Sun Valley Recycling Park in Sun Valley, California. The OREX processing line has a capacity of 50 tons per hour and removes contaminants from source-separated organic waste, which is delivered to the Rialto Bioenergy Facility for digestion.

City of Los Angeles' Alternative Technology Efforts

In 2017, the City of Los Angeles awarded exclusive franchise agreement contracts to waste hauling companies to provide solid waste, commingled recyclables, and organics collection, transfer, disposal, and processing services to commercial and multifamily establishments in the City. Through these contracts, the companies secured a dedicated waste stream, increasing the financial viability to develop new organic waste processing and CT facilities near the City of Los Angeles. By establishing this position in the market, it can be financially advantageous for these facilities to process organic waste originating from other jurisdictions in addition to the City.

SITING ELEMENT REVISION

AB 939 requires each county to prepare a countywide siting element that describes how the county and the cities within the county, plan to manage the disposal of their solid waste for a 15-year planning period. The existing CSE, dated June 1997, was approved by the County's cities containing a majority of the County's population. It was subsequently approved by the Board of Supervisors in January 1998, and by CalRecycle on June 24, 1998.



The current CSE revision, which covers the 15-year planning period of 2018-2033, reflects the following significant changes compared to the previous version:

- ❖ Removes two potential landfill sites, Elsmere and Blind Canyon Landfills, in accordance with a motion passed by the Board of Supervisors on September 30, 2003;

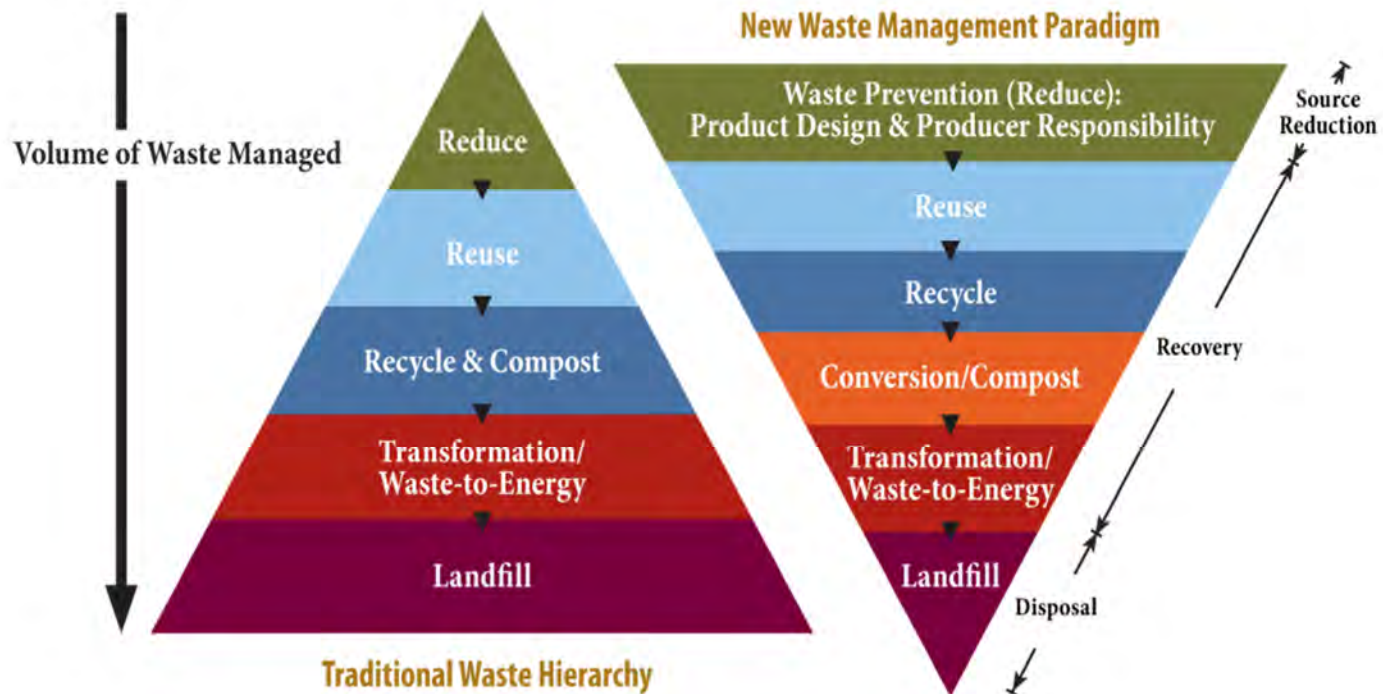
- ❖ Updates the goals and policies consistent with the new solid waste management paradigm (**Figure 4**), to enhance the comprehensiveness of Los Angeles County's solid waste management system by

incorporating current and upcoming solid waste management processes and technologies;

- ❖ Promotes the development of alternatives to landfilling, such as CTs, on a Countywide basis; and
- ❖ Promotes the development and use of infrastructure to transport solid waste to out-of-County landfills, such as Mesquite Regional Landfill, to complement the County's waste management system.

The draft revised CSE and its environmental document were reviewed and approved by the Task Force and the 88 cities in Los Angeles County. The County Board of Supervisors and CalRecycle will undergo their own review and approval process in compliance with statutory and regulatory requirements.

Figure 4: Solid Waste Management Hierarchy



GOALS AND POLICIES OF THE SITING ELEMENT

The CSE establishes goals and policies for the County to maintain adequate permitted disposal capacity for a 15-year planning period. To provide adequate disposal capacity, the CSE offers strategies and establishes siting criteria for potential sites. Existing landfills (including those located out-of-County) are identified and analyzed based on their permitted disposal capacity and estimated closure date. Additionally, the CSE includes goals and policies to facilitate the use of out-of-County/remote landfills and to foster the development of alternatives to landfill disposal, such as CTs on a countywide basis.

The goals and policies¹ are either being or may have to be implemented by the County and cities in the County to meet the mandates of the AB 939. These goals are consistent with those listed in the Los Angeles County Solid Waste Management Action Plan (Action Plan)² and County Solid Waste Management Plan (CoSWMP)³.

The goals are as follows:

1. To continue to promote extended producer responsibility, development of adequate markets to increase the use of recycled materials and compost products in an environmentally responsible manner.

2. To decrease the volume and tonnage of solid waste being disposed of at landfills by continuing to implement and expand source reduction, recycling, reuse, composting, and public education programs as well as promoting the development of alternative technologies which complement recycling efforts.
3. To promote, encourage, and expand waste diversion activities by solid waste facility operators.
4. To conserve Class III landfill capacity through recycling and reuse of inert waste, disposal of inert waste at inert waste landfills, increased waste disposal compaction rates, recycling of organic materials from the waste stream, and use of appropriate materials, such as tarps, for landfill daily cover, provided the use of such materials is environmentally appropriate and protects the health, welfare, and safety of the citizens in Los Angeles County, as well as the environment.
5. To protect the health, welfare, safety, and economic well-being of Los Angeles County by ensuring that the cities and the County unincorporated communities are served by an efficient and economical public/private solid waste disposal system.

¹The corresponding policies associated with each Goal can be found in the 1997 Los Angeles County Countywide Siting Element approved by CalRecycle on June 24, 1998.

²The Action Plan was adopted by the County Board of Supervisors in April 1988 and was subsequently superseded by the County Integrated Waste Management Plan, which was

approved by the former California Integrated Waste Management Board (CIWMB) (now California Department of Resources Recycling and Recovery (CalRecycle)) in June 1999.

³The CoSWMP was approved by the County's cities containing a majority of the County's population, the County Board of Supervisors, and the former CIWMB (now CalRecycle).

6. To foster the development of environmentally appropriate alternative technologies as alternatives to landfill disposal.
7. To provide siting criteria that considers and provides for the environmentally appropriate and technically feasible development of solid waste disposal facilities, including alternative technology facilities (e.g., conversion technology, transformation) and landfills.
8. To protect the health, welfare, and safety of all citizens of the 88 cities in Los Angeles County and the County unincorporated communities by addressing their solid waste disposal needs during the 15-year planning period through the development of environmentally appropriate and technically feasible solid waste management facilities for solid waste which cannot be reduced, reused, recycled, composted, or otherwise put to beneficial use.

This goal incorporates policies to:

- Enhance in-County landfill disposal capacity, and
- Facilitate utilization of remote and/or out-of-County disposal facilities.



SOLID WASTE DISPOSAL FACILITIES

Permit Changes

As of December 31, 2021, there are no permit changes to existing solid waste disposal facilities.



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DISPOSAL ANALYSIS FOR 2021

The 2021 disposal analysis consists of an analysis of solid waste generated within the County, solid waste disposed within the County, and solid waste exported to out-of-County landfills. To determine the amount of waste generated by Los Angeles County residents, a calculation was performed using the countywide solid waste disposal and diversion rate.

Solid Waste Disposal

In 2021, the total amount of solid waste disposed of at in-county Class III landfills, transformation facilities, and out-of-County landfills was approximately 11.1 million tons (including an import amount of 179,872 tons). In addition, the amount of inert waste disposed at the permitted inert waste landfill totaled 402,989 tons. See **Table 1**, below for more detail.

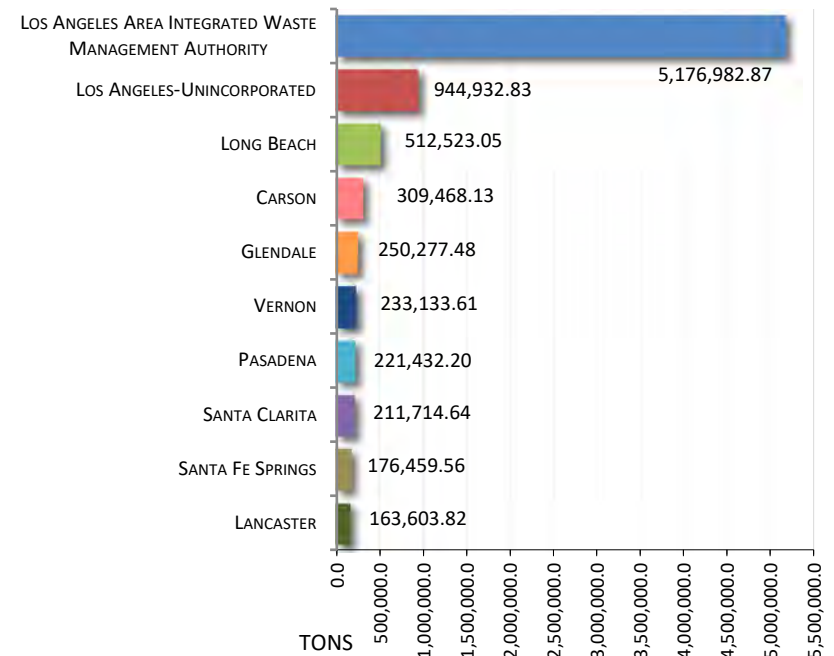
Table 1: 2021 Disposal Tonnage Breakdown

	Annual Disposal Tonnage (tons)	Daily Disposal Rate* (tons per day)
In-County Class III Landfills:	6,243,981	20,013
Transformation Facilities:	374,832	1,201
Exports to Out-of-County Landfills:	4,513,262	14,466
Subtotal Solid Waste Disposed:	11,132,074	35,680
Permitted Inert Waste Landfill:	402,989	1,292
Grand Total Solid Waste Disposed:	11,535,063	36,971

*(Based on Six Operating Days/Week)

Figure 5 below shows the top ten jurisdictions that disposed solid waste, including inert waste disposed at the permitted inert waste landfill, in and outside of the County in 2021.

Figure 5: Top 10 Jurisdiction Disposal Quantities in 2021



Note:

The Los Angeles Area Integrated Waste Management Authority/Los Angeles Regional Agency (LARA) consists of the following 18 Cities in Los Angeles County: Artesia, Beverly Hills, Bradbury, Downey, Duarte, Hermosa Beach, Hidden Hills, Los Angeles, Lynwood, Manhattan Beach, Palos Verdes Estates, Pomona, Rancho Palos Verdes, Redondo Beach, Rosemead, Sierra Madre, South Gate, and Torrance.

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Waste Generation

For the purpose of long-term disposal capacity planning, a countywide diversion rate of 65-percent was assumed for 2021. Based on a total disposal of 11.0 million tons (excluding inert waste and imports) and the 65-percent diversion rate, the County generated approximately 31.3 million tons, or an average of 100,295 tpd, of solid waste in 2021 (See **Table 2**).

Senate Bill 1016

With the implementation of Senate Bill (SB) 1016, CalRecycle no longer calculates diversion rates for individual jurisdictions and as a result, countywide diversion rates are no longer provided by CalRecycle. The last diversion rates provided by CalRecycle were for 2006, which resulted in a countywide diversion rate of 58-percent.

Under SB 1016, a target per capita disposal rate, using a 50-percent diversion rate, is calculated using an approved jurisdiction-specific average of per capita generation rates between 2003 and 2006. To establish compliance with AB 939, each jurisdiction's per capita disposal rate is calculated for each reporting year and compared to their individual target rates.

Table 2: 2021 Waste Generation and Disposal Quantities for Municipal Solid Waste

A	B	C	D	E	F
In-County Disposal		Exports to Out-of- County Class III Landfills	Total Disposal*	Estimated Countywide Diversion Rate	Calculated 2021 Solid Waste Generation*
Class III Landfills	Transformation Facilities				
TONS	TONS	TONS	TONS	percent	TONS
6,104,060	334,881	4,513,262	10,952,203	65	31,292,007

* Data from permitted inert waste landfill and imports is excluded from these calculations.

Column A: Total disposal at Class III landfills in Los Angeles County. Does not include waste imported from jurisdictions outside the County.

Column B: Total disposal at transformation facilities in Los Angeles County. Does not include waste imported from jurisdictions outside the County.

Column C: Waste exported by jurisdictions in Los Angeles County to disposal facilities located outside the County.

Column D: Columns A + B + C.

Column E: A Countywide Diversion Rate of 65-percent is assumed.

Column F: Column D ÷ 35-percent (disposal percentage). This estimate is used to project the County's Class III landfill and transformation disposal needs through the year 2036.

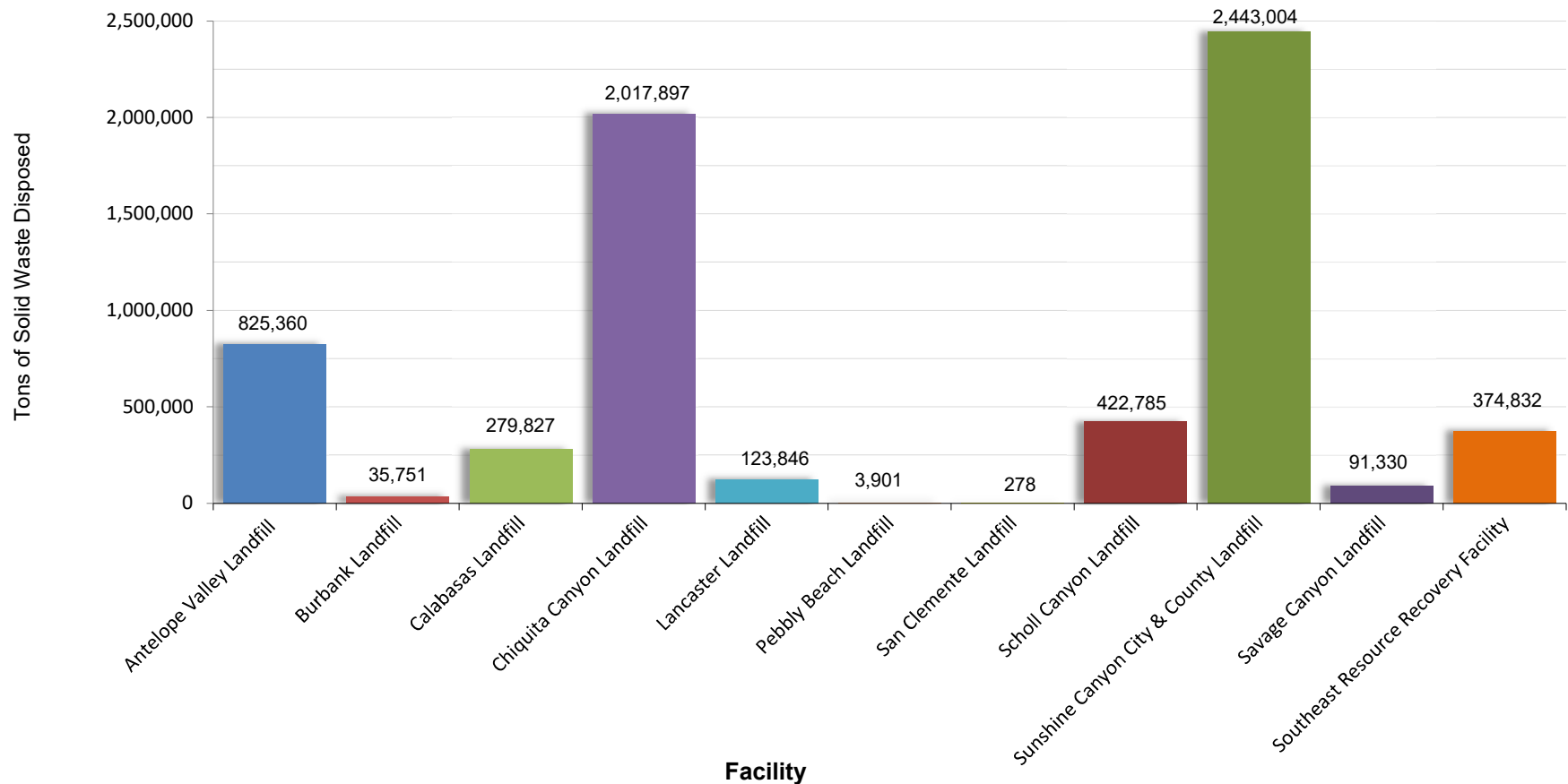
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Waste Disposal at In-County Facilities

In addition to waste generated within the County, Class III landfills and transformation facilities in the County also received 179,872 tons, or 577 tpd, of waste from jurisdictions outside the

County in 2021. **Figure 6** shows the total amount of solid waste disposed at each Class III landfill and transformation facility, including imports from outside the County. Detailed information provided in **Appendix E-2, Table 4**.

Figure 6: Disposal Quantities by Facility in 2021

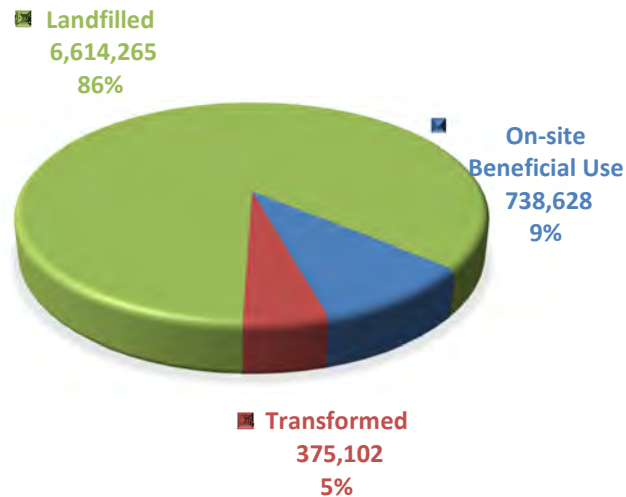


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When waste is received at Class III landfills and transformation facilities, some of it is recycled for on-site use, such as ADC, and some is sent off-site for recycling or processing. The remaining waste is landfilled or transformed into energy. If transformed, the residual ash is turned into ashcrete and used as road base for winter deck operating areas and other beneficial uses. **Figure 7** quantifies each of these activities. The various types of materials recycled or beneficially used on-site at Class III landfills are further broken down in **Figure 8**.

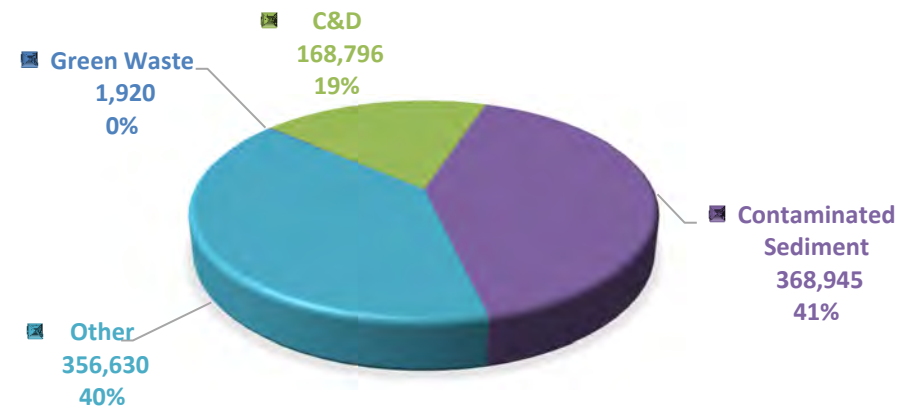
Figure 7: Types of Activities (Landfilled, Transformed and On-site Beneficial Use) at In-county Disposal Facilities (Tons)



*Excluding ash as beneficial use.

Note: The "landfilled" portion includes 552,590 tons of inert waste.

Figure 8: On-site Beneficial Use (Tons)



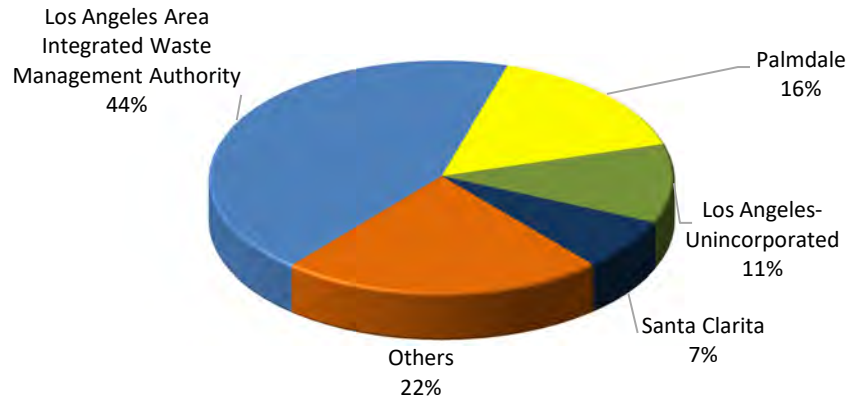
Note: The tonnage for mixed waste (86 tons per year) is not included in this chart as it is insignificant..

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Figures 9 through 19 show the annual disposal (excluding imports from outside the County) at each in-County facility in 2021, broken down by jurisdiction. The facilities with an “(R)” next to their names represent landfills with wasteshed restrictions⁴. A map showing the location of each facility is provided in **Appendix E-4**.

Figure 9: Antelope Valley Landfill
804,732 tons (2,579 tpd)



Note:

The Los Angeles Area Integrated Waste Management Authority/Los Angeles Regional Agency (LARA) consists of the following 18 Cities in Los Angeles County: Artesia, Beverly Hills, Bradbury, Downey, Duarte, Hermosa Beach, Hidden Hills, Los Angeles, Lynwood, Manhattan Beach, Palos Verdes Estates, Pomona, Rancho Palos Verdes, Redondo Beach, Rosemead, Sierra Madre, South Gate, and Torrance.

Figure 10: Burbank Landfill
35,751 tons (115 tpd)

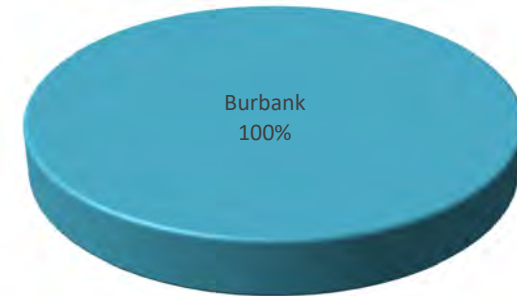
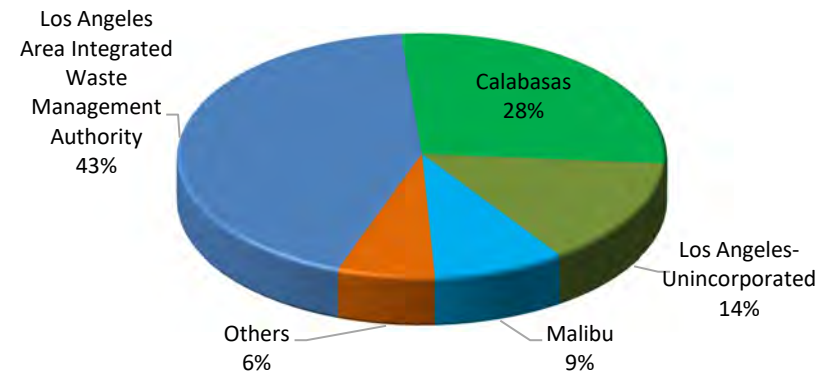


Figure 11: Calabasas Landfill
263,705 tons (845 tpd)



⁴ **Wasteshed Restrictions** refers to a geographical area from which waste can logically be delivered to a given disposal facility. This term is synonymous with waste service area.

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Figure 12: Chiquita Canyon Landfill
1,919,702 tons (6,153 tpd)

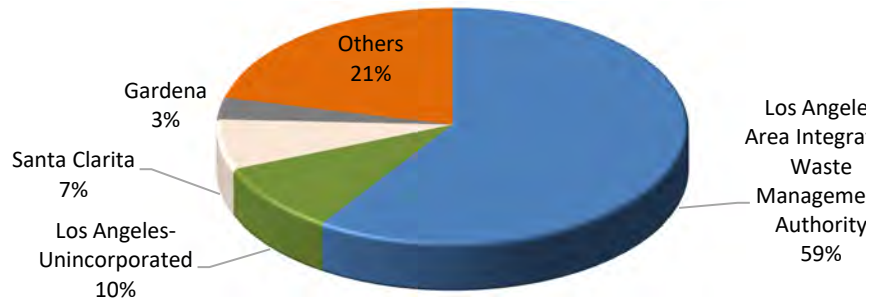


Figure 14: Pebbly Beach Landfill
3,901 tons (13 tpd)



Figure 13: Lancaster Landfill
118,985 tons (381 tpd)

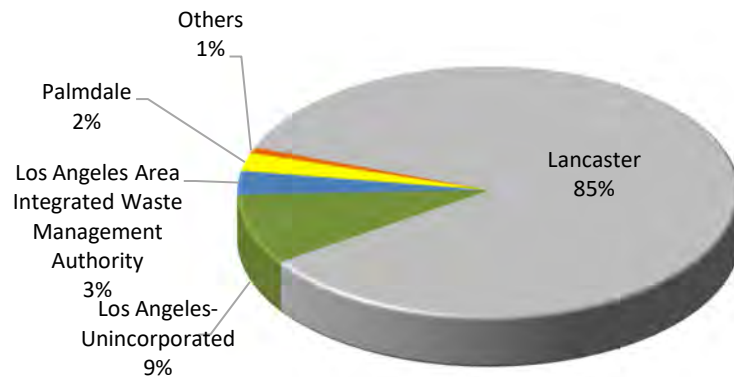


Figure 15: San Clemente Landfill (R)
278 tons (1 tpd)



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Figure 16: Savage Canyon Landfill (R)
91,330 tons (293 tpd)

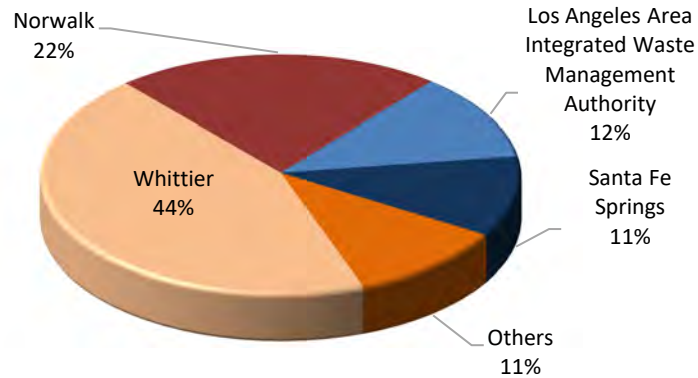


Figure 18: Southeast Resource Recovery Facility
334,881 tons (1,073 tpd)

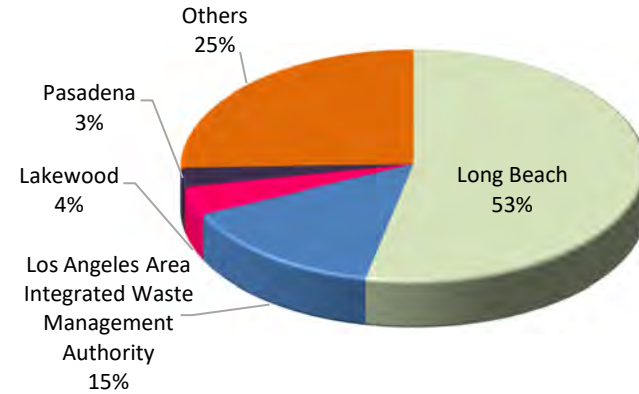


Figure 17: Scholl Canyon Landfill (R)
422,785 tons (1,355 tpd)

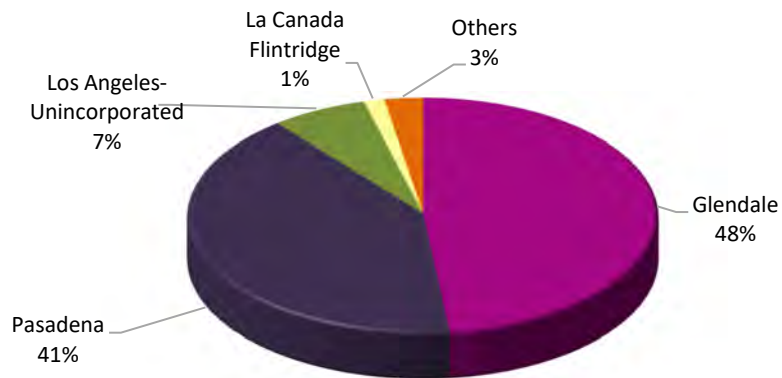
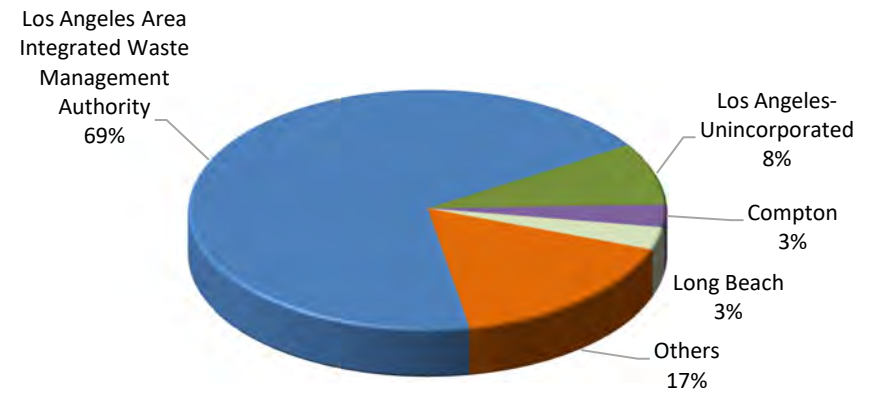


Figure 19: Sunshine Canyon Landfill
2,443,004 tons (7,830 tpd)



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Remaining Disposal Capacity at End of 2021

Transformation Facilities

As of December 31, 2021, there was one transformation facility operating in the County - Southeast Resource Recovery Facility (SERRF). SERRF had an average daily solid waste intake of 1,201 tpd (including an import amount of 128 tpd), which is equivalent to 374,832 tpy.

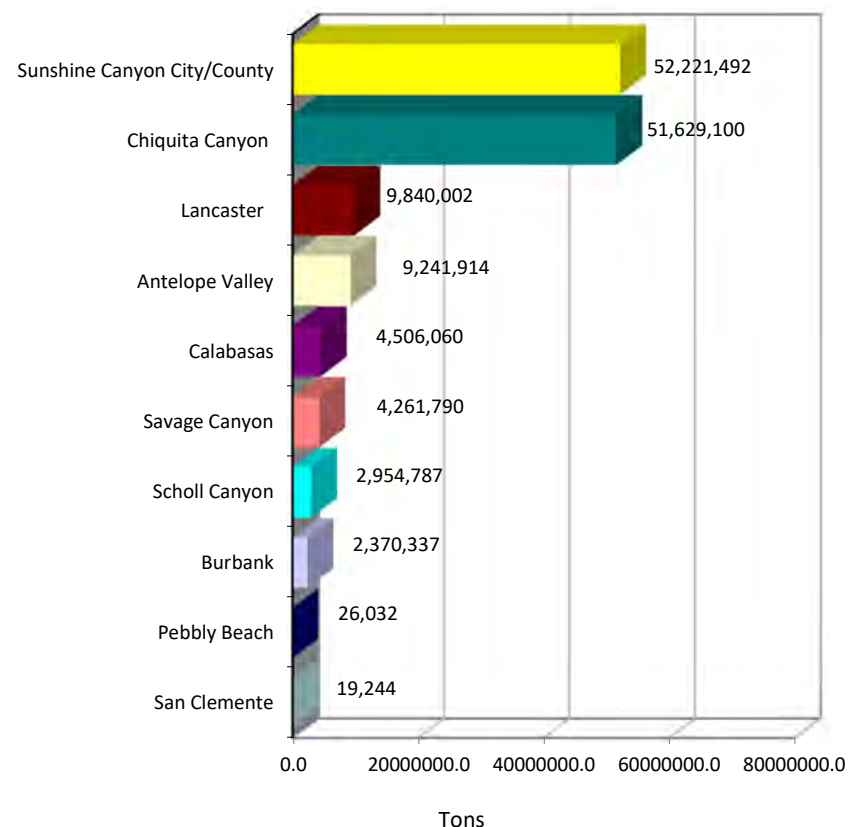
In 2018, the City of Long Beach announced an amended agreement to provide for the continued operation of SERRF until at least June 30, 2024. It is anticipated that SERRF will continue to operate at its current average daily rate until its closure. The owner and operator of SERRF has indicated that there are no plans to increase the permitted daily capacity.

Class III Landfills

Public Works conducted a survey requesting landfill operators in the County to provide updates of their estimated remaining disposal capacities. Based on the results of the survey and considering permit restrictions, the total remaining permitted Class III landfill capacity in the County is estimated at 137.09 million tons.

Figure 20 shows a breakdown of each landfill's remaining disposal capacity, in million tons. Detailed information is provided in **Appendix E-2, Table 4**.

Figure 20: Class III Landfill Estimated Remaining Disposal Capacity

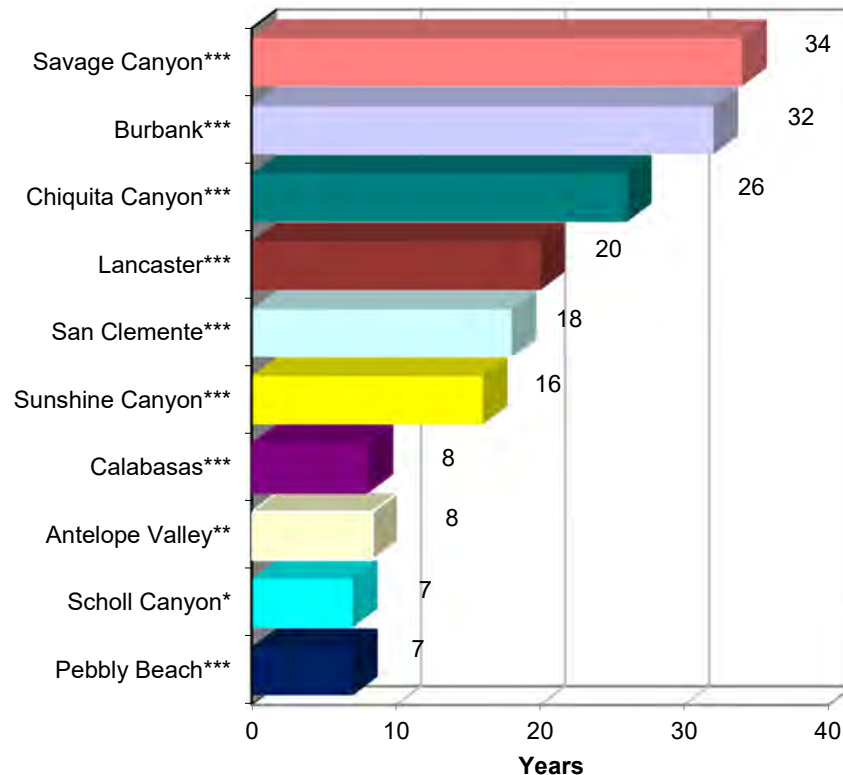


The remaining life of each landfill is determined by dividing the landfill's remaining capacity by its average daily disposal, maximum permitted capacity, or permit restrictions (if specified). Generally, the variable with the smallest value is chosen. The lifespan of each landfill is shown in **Figure 21**.

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Figure 21: Class III Landfill Estimated Remaining Life



* Landfill remaining life based on 2021 average daily disposal

** Landfill remaining life based on maximum permitted capacity as of December 31, 2021.

*** Landfill remaining life based on land use/solid waste facility permit restrictions as of December 31, 2021.

Permitted Inert Waste Landfill

As of 2021, Azusa Land Reclamation is the only permitted Inert Waste Landfill in the County that has a full solid waste facility permit. The remaining capacity of this landfill is estimated at 50.77 million tons, or 42.31 million cubic yards. Detailed information is provided in **Appendix E-2, Table 4**. Given the

remaining permitted capacity and the average disposal rate of 1,292 tpd in 2021, this landfill's capacity would be exhausted in 165 years; however, based on the landfill's solid waste facility permit closure date, the landfill expected to close in 24 years.

Inert Debris Facilities

Inert debris facilities include Inert Debris Engineered Fill Operations (IDEFO) and other facilities that process inert waste and other construction and demolition waste. In 2021, inert debris facilities (excluding Azusa Land Reclamation Co. Landfill) collectively handled nearly 3.62 million tons, or approximately 2.89 million cubic yards, of material in the County. Detailed information is provided in **Appendix E-2, Table 5**.

Transfer and Processing Capacity

There are 51 permitted Large Volume Transfer/Processing Facilities, which can receive 100 tons of waste or more per operating day, and numerous facilities of smaller volume operating within the County. A *transfer station/processing facility* refers to a facility which receives, handles, separates, converts, or otherwise processes solid waste. There are three types of facilities that are recognized as transfer/processing facilities in this report: transfer stations, material recovery facilities, and construction, demolition, and inert debris processing facilities. *Transfer stations* typically transfer solid waste directly from one container to another or from one vehicle to another for transport, or temporarily store solid waste prior to final disposal at CalRecycle-permitted landfills or transformation facilities. MRFs refer to intermediate processing facilities designed to remove recyclables and other valuable materials from the waste stream. A *construction, demolition,*

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and inert (CDI) debris processing facility refers to a site that receives any combination of construction and demolition debris, and Type A⁵ inert debris per operating day for the purposes of storage, handling, transferring, or processing.

As local waste disposal capacity options diminish in the County, transfer and processing facility operators are expected to export waste to out-of-County landfills via truck or rail transport. A list



and map of Large Volume Transfer and Processing facilities located within the County is provided in **Appendix E-4**.

On-going Efforts to Optimize Utilization of Existing Disposal Capacity

Over the last decade, the County has encouraged waste diversion and recycling activities at landfills located in the unincorporated County areas through the land use permit process. The permit process includes a Waste Plan Conformance Agreement, which requires a landfill operator to implement waste diversion and recycling programs as well as other activities, both on and off-site to assist individual jurisdictions within the County in achieving the diversion mandate of AB 939. In addition, the Agreement contains provisions to encourage and assist residents in properly disposing their waste. These programs or activities may include the following:

Conservation of Capacity

- ❖ Maximize available fill capacity at Class III landfills by improving compaction methods and diverting or reducing high-volume or low-density waste materials
- ❖ Conduct waste characterization studies

On-Site Reuse

- ❖ Utilize waste materials received and processed at the landfill, such as shredded green waste, as a supplement to daily, intermediate, and final cover
- ❖ Use green waste for other beneficial uses, including composting
- ❖ Salvage wood waste for landscaping and erosion, weed, and fire break control

⁵ Type A inert debris includes, but is not limited to, concrete (including fiberglass or steel reinforcing bar embedded in the concrete), fully cured asphalt, crushed glass, fiberglass, asphalt or fiberglass roofing shingles, brick, slag, ceramics, plaster, and clay products.

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- ❖ Salvage construction and demolition waste for road construction, erosion control, and other uses

Establishment of:

- ❖ Materials recovery operations or facilities
- ❖ Used oil collection centers
- ❖ Drop-off or buy-back recycling centers

Activities to Encourage Proper Disposal

- ❖ Free disposal days
- ❖ Waste tire processing
- ❖ Christmas tree recycling
- ❖ Acceptance of bulky items from residents free of charge
- ❖ As appropriate, providing reduced rates to customers for source-separated materials which can be diverted or otherwise salvaged at the landfill
- ❖ Public education activities

Provide Funding for:

- ❖ Household hazardous and electronic waste collection events
- ❖ Research and development of alternative technologies

Active Class III landfills that have a Waste Plan Conformance Agreement with the County include Chiquita Canyon, Lancaster, and Sunshine Canyon City/County Landfills. Together, these landfills handle approximately 70-percent of in-County Class III waste. Due to the dynamic and varied nature of solid waste management in the County, the provisions of the Waste Plan Conformance Agreement for each landfill are tailored to meet the specific needs of the communities serviced by the landfill.

As the economy continues to show signs of improvement, increasing the diversion rate and promoting advancements such as improving compaction methods, will prevent the remaining capacity of existing landfills from being depleted as quickly as previously projected and is expected to provide longer lifespans for in-County landfills.



STRATEGY FOR MAINTAINING ADEQUATE DISPOSAL CAPACITY

This section discusses strategies on how the County plans to maintain adequate solid waste disposal capacity from 2021 to 2036. It includes an analysis which considers legislation, such as the mandatory commercial recycling and diversion of organic waste from landfills through organic waste recycling programs. The discussion first evaluates whether the existing permitted disposal capacity in the County will be able to accommodate the solid waste generated that cannot be reduced, reused, or recycled. Additionally, an evaluation of the existing disposal infrastructure and the current diversion rate analyzes whether there will be daily disposal capacity shortfall or reserve. The discussion goes on to present several scenarios applying various options for managing the residual solid waste. Inert waste landfills are not included in this discussion since the County currently has adequate permitted inert waste landfill capacity, as discussed earlier in **Permitted Inert Waste Landfill** (Page 23).

Definitions

The following are a set of terms used throughout this section (all quantities are in tons per day (tpd)):

Daily Disposal Demand – The amount of solid waste generated minus the amount diverted by means of reuse, recycling, composting, or anaerobic digestion based on a 6-day-per-week operation at permitted solid waste disposal facilities.

Daily Available Capacity – The amount of solid waste permitted to be received at solid waste disposal facilities based on a 6-day-per-week operation in accordance with the terms, conditions, and watershed restrictions of the facility's SWFP, land use permit, waste discharge requirements, or any other permit regulating the operation - whichever is more restrictive.

Disposal Capacity Reserve – The amount of solid waste by which the total Daily Available Capacity exceeds Daily Disposal Demand.

Disposal Capacity Shortfall – The amount of solid waste by which Daily Disposal Demand exceeds the total Daily Available Capacity.

Evaluation of Existing Disposal Infrastructure

Waste Generation Projections

Projections of solid waste generation during the planning period were made using the "Adjustment Methodology" developed by CalRecycle. The Methodology requires knowledge of how the generated waste is distributed into the residential and non-residential sectors as well as future population, employment, and real taxable sales.

Population, employment, and real taxable sales projections are available from the California Department of Transportation (Caltrans) and UCLA for each year of the planning period. The

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UCLA Long-Term Forecast, published in July 2021, was used since it focuses on the Los Angeles region, in contrast with the Caltrans' forecast, which is statewide and yields more general projections. Additionally, the UCLA forecast data is updated more frequently. **Figure 22** shows a graph of the parameters used in the analysis. The detailed data is provided in **Appendix E-2, Table 6**.

Based on the California 2008 Statewide Waste Characterization Study, the average Countywide waste distribution by sector is as follows:

- Residential Sector Waste Generation = 30-percent of total waste generation
- Non-Residential Sector Waste Generation = 70-percent of total waste generation

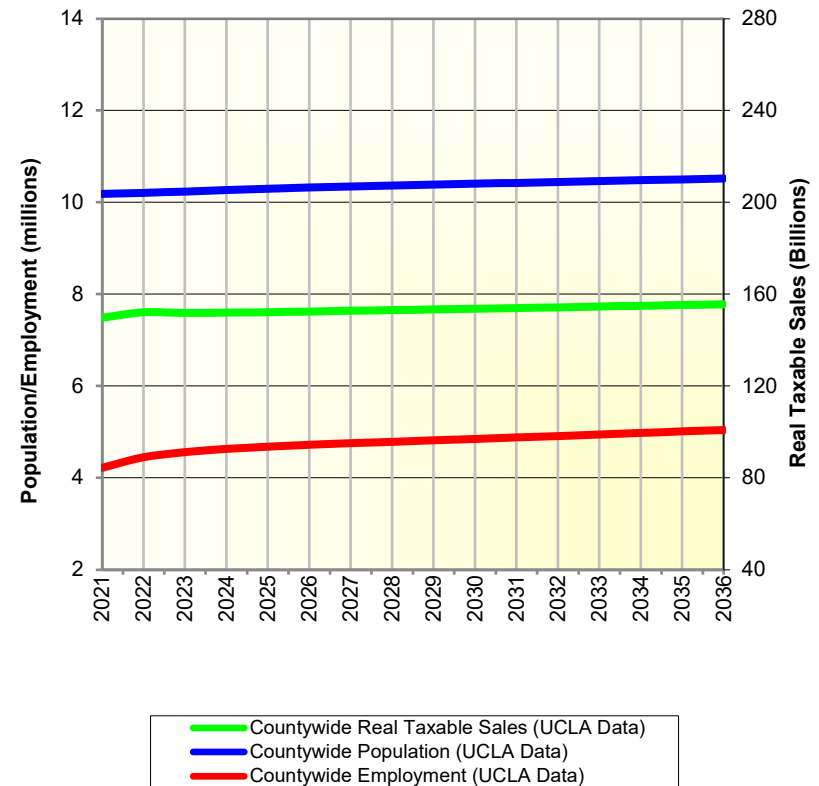
Daily Disposal Demand Projections

The quantity of Daily Disposal Demand depends on the amount of solid waste that may be diverted. As noted in **Waste Generation** (Page 16), a diversion rate of 65-percent was assumed for the analysis in this report. With this assumption, the amount of residual waste that requires disposal capacity is 35-percent of the projected waste generation.

Transformation Facility Capacity

For the purposes of the analysis, as explained earlier in **Remaining Disposal Capacity at End of 2021** (Page 22), SERRF is assumed to provide up to 1,200 tpd of Daily Available Capacity through its closure date of June 2024.

Figure 22: Population, Employment, and Real Taxable Sales



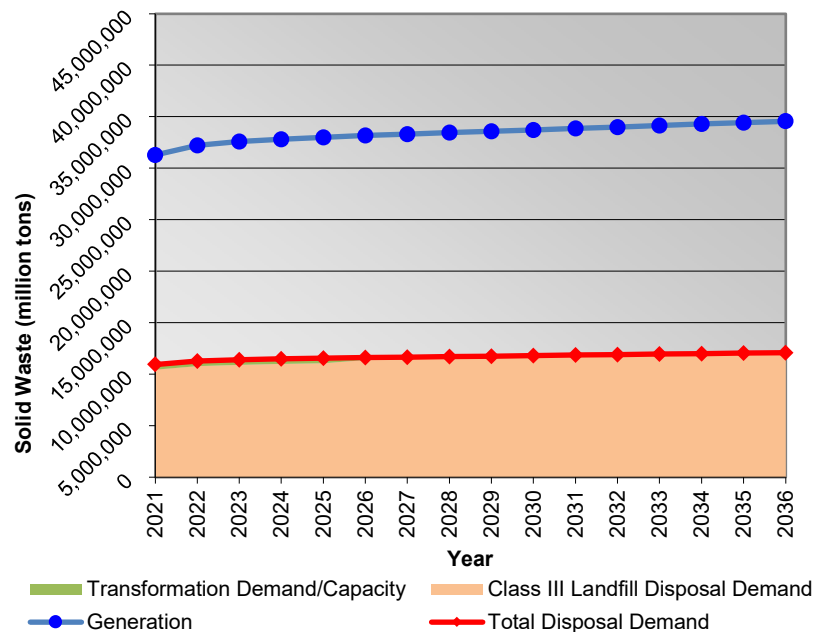
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Class III Landfill Capacity Need

Assuming no other options are available, such as exporting to out-of-County facilities or the development of new alternative technologies, the County's Class III landfill disposal needs are determined after considering the available transformation capacity. The result of the evaluation is plotted in **Figure 23**. Detailed information is provided in **Appendix E-2, Table 7**.

Figure 23: Solid Waste Generation and Disposal Demand



In **Figure 23** the area in orange illustrates the amount of disposal capacity needed from Class III landfills throughout the planning period. According to the analysis, the cumulative need for Class III landfill disposal capacity, approximately 148.14 million tons in 2033, will exceed the 2021 remaining permitted Class III landfill capacity of 137.09 million tons (Page 22). Detailed information is provided in **Appendix E-2, Table 7**.

Other constraints that may limit the accessibility of Class III landfill capacity include watershed boundaries, geographic barriers, weather, and natural disasters. Therefore, further detailed analysis that incorporates capacity options in addition to existing in-County infrastructure and permit constraints is necessary to provide a more thorough evaluation.

Scenario Analysis

The scenario analysis considers the various capacity options that are currently available or may become available in the future to assist the County in meeting the Daily Disposal Demand. The analysis looks at the following:

Existing In-County Class III Landfills and Transformation Facilities – The analysis considers a facility's permitted capacity, termination date, and watershed restriction, if any.

Proposed Expansions of In-County Class III Landfills – The analysis assumes no proposed landfill expansions that will occur during the planning period.

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Imports and Exports – The analysis considers imported and exported waste to and from out-of-county jurisdictions. Existing facilities in Kern, Orange, Riverside, San Bernardino, and Ventura Counties are currently accepting waste from the County. Future use of the waste-by-rail system to Mesquite Regional Landfill in Imperial County is also considered.

Diversion Rate – A 65 percent diversion rate is assumed in most of the scenarios. A potential increase in the diversion rate is assumed in some scenarios, considering that all jurisdictions in the County comply with state laws such as the mandatory commercial recycling and the diversion of organic waste from landfills through organics recycling programs. The potential development of composting and anaerobic digestion processing facilities, in response to these laws, is also assumed to contribute to the increase in diversion rate.

Alternative Technologies – Potential engineered municipal solid waste (EMSW) conversion facilities or other alternative technologies may be developed during the planning period. As discussed above, the anaerobic digestion capacity is incorporated into the assumption of an increased diversion rate, and is therefore, not included in the projections for potential available alternative technology capacity.

Given all the various capacity options, the analysis evaluated four potential scenarios during the 15-year planning period. **Table 3** summarizes the differences between the scenarios.



For all four scenarios, the projected waste generation remains the same. The analysis closely examines how much Daily Available Capacity from existing Class III landfills is expected to be utilized during each year. The analysis ultimately evaluates whether we expect a reserve or shortfall in the Class III Landfill disposal capacity by assessing whether the Daily Disposal Demand can be met for each year during the 15-year planning period. No new landfills are expected to be permitted in the County during the planning period. Detailed information is provided in **Appendix E-3 Disposal Capacity Analysis Scenarios**

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Table 3: Scenario Comparison Table

Scenario Number	Existing Permitted In-County Disposal Capacity	Diversion Rate ⁶ ≥ 65 Percent	Exports to Out-of-County Landfills	Utilization of Additional Alternative Technology Capacity	Increase in Exports to Out-of-County Landfills
I Utilization of Permitted In-County Disposal Capacity Only	✓	✓			
II Status Quo Scenario	✓	✓	✓		
III Meeting Senate Bill 1383 Organic Waste Disposal Reduction Targets	✓	✓	✓		
IV All Solid Waste Management Options Considered Become Available	✓	✓	✓	✓	✓

⁶ Scenarios I and II assume a 65 percent diversion rate throughout the planning period. Scenario III assumes an increase in diversion rate (up to 76 percent) to meet Senate Bill 1383 organic waste disposal reduction targets. Scenario IV assumes an increase in diversion rate (75-percent by 2025) considering all jurisdictions in the County comply with state diversion laws.

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Scenario I – Utilization of Permitted In-County Disposal Capacity Only

Assumptions/Considerations:

- Use of Existing Permitted In-County Class III Landfills and Transformation Facilities only
- No Exports to Out-of-County Landfills

Scenario I assumes that all solid waste disposed will be managed by existing permitted in-County disposal infrastructure only. The scenario assumes continued diversion efforts by individual jurisdictions, resulting in a countywide diversion rate to 65-percent throughout the planning period, and no expansions of existing landfills.

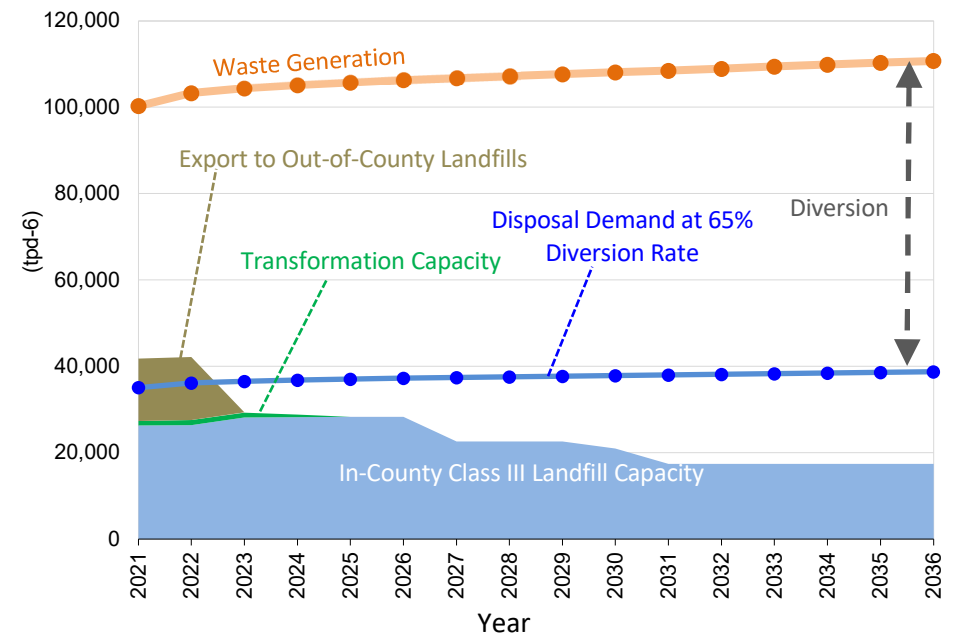
The following assumptions are made with respect to imports and exports:

Imports – The average waste import rate for 2021 was 577 tpd. However, for purposes of this analysis, the amount of waste imported to in-County landfills is projected to be at 600 tpd every year for the remainder of the planning period.

Exports – The amount of waste exported to out-of-County landfills in 2021 was approximately 14,466 tpd (which is equivalent to about 42 percent of the total disposal). For the purposes of this scenario, it is assumed that the use of available out-of-County disposal capacity will continue at a similar rate (42 percent) in 2022 and will not continue through the remainder of the planning period.

Based on these assumptions, a shortfall in disposal capacity is expected to occur in this scenario during the planning period. Detailed information is provided in **Appendix E-3**.

Figure 24: Utilization of Permitted In-County Disposal Capacity Only Scenario



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Scenario II - Status Quo

Assumptions/Considerations:

- Use of Existing Permitted In-County Class III Landfills and Transformation Facilities
- Use of Exports to Out-of-County Landfills

Scenario II assumes that all solid waste disposed will be managed by existing permitted in-County disposal infrastructure and available out-of-County landfill capacity. The scenario assumes continued diversion efforts by individual jurisdictions, resulting in a countywide diversion rate to 65-percent throughout the planning period, and no expansions of existing landfills.

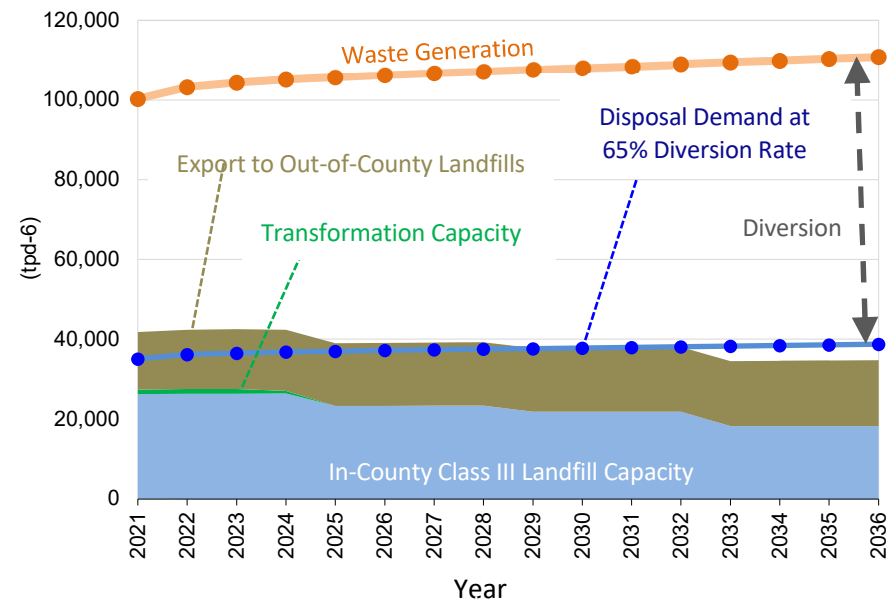
The following assumptions are made with respect to imports and exports:

Imports – The average waste import rate for 2021 was 577 tpd. However, for purposes of this analysis, the amount of waste imported to in-County landfills is projected to be at 600 tpd every year for the remainder of the planning period.

Exports – The amount of waste exported to out-of-County landfills in 2021 was approximately 14,466 tpd (which is equivalent to about 42 percent of the total disposal). It is assumed that exports to out-of-County landfills will continue at that rate (42 percent) through the remainder of the planning period.

Based on these assumptions, a shortfall in disposal capacity is expected to occur in this scenario during the planning period. Detailed information is provided in **Appendix E-3**.

Figure 25: Status Quo Scenario



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Scenario III – Meeting Senate Bill 1383 Organic Waste Disposal Reduction Targets

Assumptions/Considerations:

- Use of Existing Permitted In-County Class III Landfills and Transformation Facilities
- Use of Exports to Out-of-County Landfills
- 76-percent diversion rate by 2028 and through the end of planning period

Along with the assumptions in Scenario II, Scenario III assumes the County meets the targets of SB 1383 which aim to reduce the landfill disposal of organic waste as follows: (1) a 50-percent reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020 and (2) a 75-percent reduction in the level of the statewide disposal of organic waste from the 2014 level by 2025.

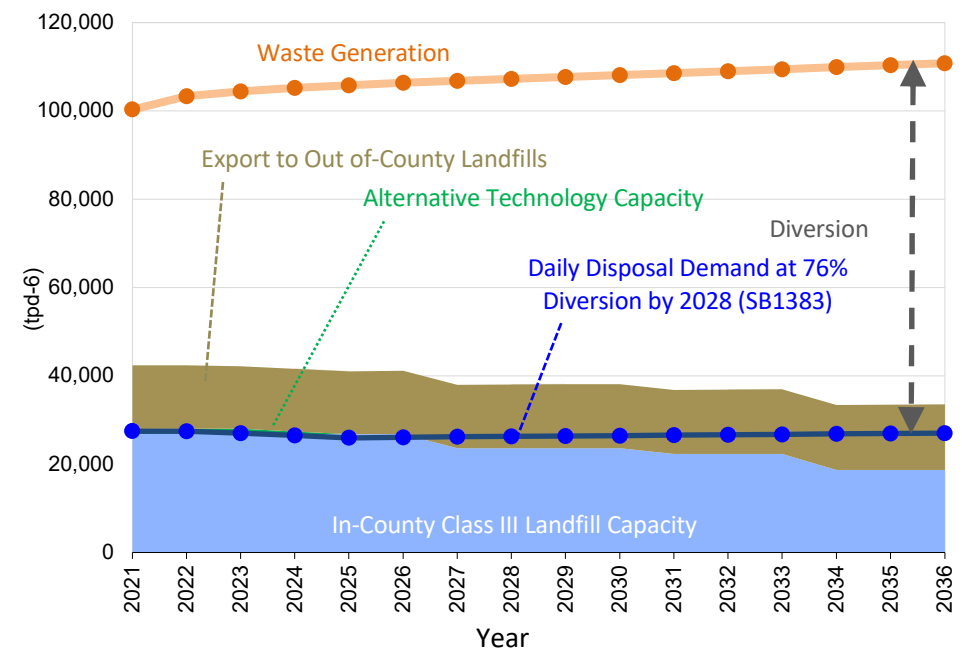
The following assumptions are made with respect to imports and exports:

Imports – The average waste import rate for 2021 was 577 tpd. However, for purposes of this analysis, the amount of waste imported to in-County landfills is projected to be at 600 tpd every year for the remainder of the planning period.

Exports – The amount of waste exported to out-of-County landfills in 2021 was approximately 14,466 tpd (which is equivalent to about 42 percent of the total disposal). It is assumed that export to out-of-County landfills will continue at that rate (42 percent) through the remainder of the planning period.

Based on these assumptions, a shortfall in disposal capacity is not expected to occur in this scenario during the planning period. Detailed information is provided in **Appendix E-3**.

Figure 26: Meeting Senate Bill 1383 Organic Waste Reduction Disposal Targets Scenario



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Scenario IV - All Solid Waste Management Options Considered Become Available

Assumptions/Considerations:

- Use of Existing Permitted In-County Class III Landfills and Transformation Facilities
- Increase in Exports to Out-of-County Landfills through use of potential waste-by-rail capacity
- 75-percent diversion rate by 2025 and through the end of planning period
- Additional Alternative Technology Capacity

Scenario IV considers all solid waste management options become available throughout the entire planning period. The scenario assumes continued diversion efforts by individual jurisdictions, resulting in a gradual increase of the countywide diversion rate to 75-percent by 2025 and through the end of the planning period, and no expansions of existing landfills.

The following assumptions are made with respect to imports and exports:

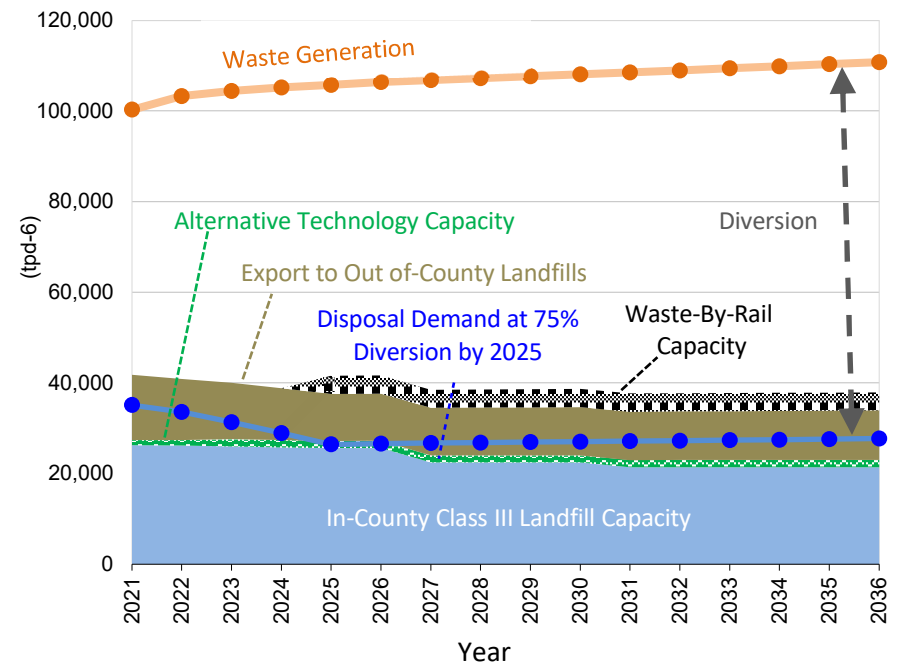
Imports – The average waste import rate for 2021 was 577 tpd. However, for purposes of this analysis, the amount of waste imported to in-County landfills is projected to be at 600 tpd every year for the remainder of the planning period.

Exports – The amount of waste exported to out-of-County landfills in 2021 was approximately 14,466 tpd (which is equivalent to about 42 percent of the total disposal). It is assumed that export to out-of-County landfills will continue at that rate (42 percent) through the remainder of the planning

period. In addition, a potential waste-by-rail capacity of 4,000 tpd is assumed to be available in the future.

Based on these assumptions, a shortfall in disposal capacity is not expected to occur in this scenario during the 15-year planning period. Detailed information is provided in **Appendix E-3**.

Figure 27: All Solid Waste Management Options Considered Become Available Scenario



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Conclusion

The scenario analysis discussed earlier assesses the County's ability to meet the Daily Disposal Demand throughout the 15-year planning period under four different scenarios. Scenario III and IV assumes an increase in diversion rate, considering all jurisdictions within the County comply with state laws such as mandatory commercial recycling and the diversion of organic waste from landfills through organic waste recycling programs.

As demonstrated by the analysis, the County would be able to meet the disposal needs of all jurisdictions through the 15-year planning period for Scenario III and IV. However, as demonstrated by Scenario I, reliance on existing permitted in-County landfill capacity alone is insufficient in meeting the County's long-term disposal needs. To maintain adequate disposal capacity, individual jurisdictions within the County must continue to pursue all the following strategies:

- ❖ **Maximize Waste Reduction and Diversion** – An increase in the Countywide diversion rate could significantly reduce the Daily Disposal Demand, extend landfill life, and ensure that the County, as a whole, will be able to meet the disposal needs of its residents and businesses. Therefore, all jurisdictions are strongly encouraged to continue to expand and enhance programs to maximize diversion.
- ❖ **Study, Promote, and Develop Alternative to Landfilling** – The development of commercial-scale state-of-the-art CTs as a convenient alternative to landfilling appears to be an attainable goal. Jurisdictions must invest and actively

participate in the research, promotion, and development of alternative technology facilities by:

- Supporting legislation that places these facilities above landfilling in the waste management hierarchy;
- Entering into waste commitment agreements; and
- Establishing partnerships with facilities and technology vendors.

- ❖ **Develop In-County Solid Waste Processing, Transfer, and Recycling Infrastructure** – The development of additional in-County solid waste management infrastructure, such as transfer/processing, composting, and anaerobic digestion facilities, would assist jurisdictions in achieving higher diversion rates and facilitate the transport of solid waste to out-of-County landfills.

- ❖ **Enhance In-County Capacity and Out-of-County Disposal (including Waste-by-Rail)** – Individual jurisdictions within the County may use the out-of-County disposal option to achieve their solid waste management goals. Out-of-County disposal may not only be essential for the disposal of residual solid waste originating within the County in the future, but it may also supplement and



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extend the life of the current in-County disposal capacity. As the disposal capacity within the County continues to diminish, and the siting of new and/or expansion of existing Class III landfills becomes increasingly difficult, out-of-County disposal options, such as the waste-by-rail system, will become more essential to meet the County's disposal needs.

protect the health and safety of the public as well as the environment. Accordingly, major concerted actions must continue to be taken by individual jurisdictions towards expanding and enhancing waste reduction and recycling programs and implementing prudent solid waste management strategies.

The assumptions made on the scenario analysis are consistent with the goals and policies established in the CSE as well as legislation, such as mandatory commercial recycling and the diversion of organic waste from landfills through organic waste recycling programs. The County acknowledges that although some of the scenarios assume an increase in diversion rate, there will be significant challenges in developing the processing capacity needed. Therefore, maintaining adequate reserve (excess) capacity will be essential in ensuring that the disposal needs of the County are met throughout the 15-year planning period.

It should be noted that future conditions considered in this report are projections, and may change based on several factors, such as decisions made by the 89 individual jurisdictions or their waste management service providers and on other conditions such as changes in regulatory requirements, disposal rates, fuel costs, and traffic congestion.

Nevertheless, the preceding scenario analyses provide a useful tool to assess the ability of jurisdictions within the County to meet the disposal needs of residents and businesses under various conditions. Given that solid waste disposal is an essential public service, it must be provided without interruption to

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JURISDICTION/REGIONAL AGENCY CONTACT

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APPENDIX E-1 SOLID WASTE FACILITY FACT SHEETS

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2021 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Antelope Valley Recycling and Disposal Facility

1. FACILITY INFORMATION

Owner: Waste Management of California, Inc.

Operator: Waste Management of California, Inc.

Address: 1200 West City Ranch Road, Palmdale, CA 93551

SWFP No: 19-AA-5624

Last 5-year Review Date: 11/10/2021

Operating Days: Monday-Saturday

SWFP Issue Date: 08/13/2018

5-year Review Due Date: 11/10/2026

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity: 9,241,914 12,322,552 cubic yards

Estimated Remaining Life: 11 years (based on average daily of disposal of 2,677 tpd, 307 days per year)

In-Place Density: 0.75 tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 3,600 tons [4,800 cubic yards]

Yearly Equivalent: [1,123,200 tons] [1,497,600 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily: 2,677 tons [3,570 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 98-12

Effective: 06/21/2011

Modified: 01/11/2018

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R6V-2012-0042

Effective: 10/10/2001

7. FOC GRANT DATE – November 17, 2011

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - No plans at this time

10. RESTRICTIONS - There is no wasteshed or restriction on origin of waste. Based on the SWFP, the landfill is permitted to receive 3,600 tpd of MSW, 1,948 tpd of materials for recycling and beneficial use, and limited to 1594 vehicles per day. Waste discharge material restrictions vary based on material type.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

2021 Annual Report

Los Angeles County Countywide Integrated Waste Management Plan

Azusa Land Reclamation Company Landfill

1. FACILITY INFORMATION

Owner: Azusa Land Reclamation Inc.

Operator: Azusa Land Reclamation Inc.

Address: 1211 West Gladstone Street, Azusa, CA 91702

SWFP No: 19-AA-0013

Last 5-year Review Date: 03/10/2021

Operating Days: Monday-Friday

SWFP Issue Date: 11/12/2014

5-year Review Due Date: 03/10/2026

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	50,771,568	42,309,640 cubic yards
Estimated Remaining Life:	26 years (based on average daily of disposal of 4,074 tpd, 305 days per year)	
In-Place Density:	1.2 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	8,000 tons	[9,600 cubic yards]
Yearly Equivalent:	[2,440,000 tons]	[2,928,000 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily:	1,275 tons	[1,530 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: Owner Participation Agreement No.1 (incorporated CUP No. C-151 of 4/9/75)

Effective: 01/27/1984

Expiration: None

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2009-0098

Effective: 09/03/2009

7. FOC GRANT DATE – 05/16/1996

8. PERMITTED WASTE TYPES – Inert Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - 8,000 tpd per SWFP. Only accepts inert solid waste.

11. REMARKS/STATUS - By Court Order, on October 2, 1996, the California Regional Water Quality Control Board-Los Angeles region ordered the Azusa Land Reclamation Landfill to stop accepting Municipal Solid Waste. Facility currently accepts inert waste only.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

2021 Annual Report
Los Angeles County Countywide Integrated Waste Management Plan

Burbank Landfill No. 3

1. **FACILITY INFORMATION**

Owner: City of Burbank - DPW

Operator: City of Burbank - DPW

Address: 3000 North Bel Aire, Burbank, CA 91504

SWFP No.: 19-AA-0040

Last 5-year Review Date: 07/9/2021

Operating Days: Monday-Friday

SWFP Issue Date: 06/03/1997

5-year Review Due Date: 07/9/2026

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2021)**

Remaining Permitted Capacity:	[2,370,337 tons]	4,309,704 cubic yards
Estimated Remaining Life:	105 years (based on average daily disposal of 135 tpd, 260 days per year)	
In-Place Density:	[0.55 tons/cubic yard]	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	240 tons	[436 cubic yards]
Yearly Equivalent:	[57,600]	[104,727 cubic yards]

4. **2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)**

Daily (based on 6 days):	138 tons	[251 cubic yards]
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5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: 2000-16

Effective: 11/13/2000

Expiration: None

6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: 93-062	Effective: 09/27/1993
Order No.: R4-2002-0154	Effective: 09/26/2002
Order No.: R4-2006-0007	Effective: 01/19/2006
Order No.: R4-2011-0052	Effective: 03/03/2011
Order No.: R4-2015-0069	Effective:

7. **FOC GRANT DATE** – 12/18/1986

8. **PERMITTED WASTE TYPES** - Solid waste

9. **FUTURE LAND USE** - Irrigated open space.

10. **RESTRICTIONS** - Origin of waste limited to the City of Burbank and is not open to the public.

11. **REMARKS/STATUS** - Limited to the City of Burbank use only.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Calabasas Landfill

1. **FACILITY INFORMATION**

Owner: County of Los Angeles	Operator: County Sanitation District No. 2 of Los Angeles County
Address: 5300 Lost Hills Road, Agoura, CA 91301 (Los Angeles County unincorporated area)	Operating Days: Monday-Saturday
SWFP No.: 19-AA-0056	SWFP Issue Date: 04/04/2016
Last 5-year Review Date: 08/11/2019	5-year Review Due Date: 08/9/2024

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2021)**

Remaining Permitted Capacity:	4,506,060 tons	7,637,389 cubic yards
Estimated Remaining Life:	16 years (based on average daily disposal of 1088 tpd, 307 days per year)	
In-Place Density:	[0.59 tons/cubic yard]	

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily:	3,500 tons	[7,292 cubic yards]
Yearly Equivalent:	[1,081,500 tons]	[2,253,125 cubic yards]

4. **2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)**

Daily:	918 tons	[1,913 cubic yards]
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5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: 5022-(5)	Effective: 08/23/1972	Expiration: None
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6. **WASTE DISCHARGE REQUIREMENTS**

Order No.: 93-062	Effective: 09/27/1993
Order No.: R4-2006-0007	Effective: 01/19/2006
Order No.: R4-2009-0088	Effective: 07/16/2009
Order No.: R4-2011-0052	Effective: 03/03/2011

7. **FOC GRANT DATE** – None

8. **PERMITTED WASTE TYPES** - Solid waste

9. **FUTURE LAND USE** - Open space

10. **RESTRICTIONS** - Origin of waste is limited to that generated in the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003.

11. **REMARKS/STATUS** - Limited to the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Los Angeles County Countywide Integrated Waste Management Plan

Chiquita Canyon Landfill

1. FACILITY INFORMATION

Owner:	Waste Connections, Inc.	Operator:	Waste Connections, Inc.
Address:	29201 Henry Mayo Drive, Castaic, CA 91384 (Los Angeles County unincorporated area)		
SWFP No.:	19-AA-0052	Operating Days:	Monday-Saturday
Last 5-year Review Date:	10/18/2016	SWFP Issue Date:	10/19/2018
		5-year Review Due Date:	10/18/2021

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	[51,477,079 tons]	52,367,323 cubic yards
Estimated Remaining Life:	26 years (based on average daily disposal of 1,884,492 tons a year)	
In-Place Density:	0.983 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	12,000 tons	[12,208 cubic yards]
Weekly:	60,000 tons	[61,038 cubic yards]
Yearly Equivalent:	[3,120,000 tons]	[3,173,957 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily (based on 6 days):	6,5544 tons	[6,667 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 89-081(5)	Effective: 11/17/1997	Expiration: 11/24/2019 or when the maximum capacity is reached, whichever is sooner.
Permit No.: 2004-00042-(5)	Effective: 07/25/2017	Expiration: 07/26/2047

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 93-062	Effective: 09/27/1993
Order No.: 98-086	Effective: 11/02/1998
Order No.: R4-2006-0007	Effective: 01/19/2006
Order No.: R4-2011-0052	Effective: 03/03/2011

7. FOC GRANT DATE - 2018

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Non-irrigated open space

10. RESTRICTIONS - Landfill cannot accept biosolids (water and wastewater sludge). There is no wasteshed restriction on origin of waste.

11. REMARKS/STATUS - The current Conditional Use Permit 89-081(5) (CUP) expired in June 2016 when the landfill reached its fill capacity limits. However, Department of Regional Planning issued a "Clean Hands Waiver" on March 17, 2016, allowing the landfill to continue its operation while processing the new CUP application. On July 25, 2017, the Board of Supervisors approved a new Conditional Use Permit for the Landfill's Expansion Project.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Los Angeles County Countywide Integrated Waste Management Plan

Lancaster Landfill and Recycling Center

1. FACILITY INFORMATION

Owner: Waste Management of California, Inc.	Operator: Waste Management of California, Inc.
Address: 600 East Avenue "F", Lancaster, CA 93535 (Los Angeles County Unincorporated Area)	Operating Days: Monday-Saturday
SWFP No.: 19-AA-0050	SWFP Issue Date: 02/19/2013
Last 5-year Review Date: 02/19/2018	5-year Review Due Date: 02/19/2023

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	9,8740,002 tons	13,120,002 cubic yards
Estimated Remaining Life:	66 years (based on average daily disposal of 4765 tpd; 307 days per year)	
In-Place Density:	0.75 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	3,000 tons	[4,000 cubic yards]
Yearly Equivalent:	[936,000 tons]	[1,248,000 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily (based on 6 days):	476 tons	[635 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 03-170-(5)	Effective: 12/14/2012	Expiration: 10/19/2041 or when limit of fill is reached, whichever occurs first.
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6. WASTE DISCHARGE REQUIREMENTS

Order No.: R6V-2016-0037	Effective: 06/14/2000
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7. FOC GRANT DATE - 05/18/2013

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The Landfill cannot accept more than 10 tpd of biosolids (sewage sludge). There is no wasteshed restriction on origin of waste. Based on the SWFP, the landfill accepts 3,000 tpd of refuse and 2,100 tpd of inert debris and beneficial use.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Los Angeles County Countywide Integrated Waste Management Plan

Mesquite Regional Landfill

(Out-of-County Landfill)

1. FACILITY INFORMATION

Owner: County of Los Angeles Sanitation District 2	Operator: County of Los Angeles Sanitation District 2 of Los Angeles County
Address: 6502 E Hwy 78, Brawley 92227	Operating Days: Not yet operational
SWFP No.: 13-AA-0026	SWFP Issue Date: 04/08/97
Last 5-year Review Date: 10/03/2016	5-year Review Due Date: 10/03/2021

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	[660,000,000 tons]	[1,100,000,000 cubic yards]
Estimated Remaining Life:	109 years	
In-Place Density:	0.60 tons/cubic yard	

3. MAXIMUM PERMITTED CAPACITY

Daily:	20,000 tons	[33,333 cubic yards]
Yearly Equivalent:	[7.3 million tons]	[12.2 million cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED

Daily: Not yet operational

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: NO. 060003	Effective: 04/27/2011	Expiration: To Be Determined
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6. WASTE DISCHARGE REQUIREMENTS

Order No.: R7-2009-0003	Effective: 06/18/2009
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7. PERMITTED WASTE TYPES - Solid Waste

8. FUTURE LAND USE – Disposal

9. RESTRICTIONS/CURRENT STATUS

In February 2007, the Sanitation Districts submitted an application to Imperial County to amend the Mesquite Regional Landfill CUP for the receipt of up to 4,000 tpd of municipal solid waste by truck. Once the waste-by-rail system is operational, the ability to receive waste by truck will provide operational flexibility with the ability to ramp up until enough tonnage is received to make up a unit train.

Imperial County Planning and Development Services issued a Notice of Availability of the Final Subsequent Environmental Impact Report on October 6, 2010. The Board of Supervisors held a public hearing on the project on April 5, 2011, and subsequently approved the CUP. The Sanitation Districts also obtained a revised Solid Waste Facility Permit (SWFP) from CalRecycle/Local Enforcement Agency on October 1, 2011 for truck haul and other entitlements granted by the new CUP.

Note: Calculated or assumed quantities are shown in bracket.

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Los Angeles County Countywide Integrated Waste Management Plan

Pebble Beach Landfill

1. FACILITY INFORMATION

Owner:	City of Avalon	Operator:	Avalon Environmental Services
Address:	1 Dump Road, Avalon, CA 90704 (Los Angeles County Unincorporated Area)	Operating Days:	Monday-Sunday
SWFP No.:	10-AA-0061	SWFP Issue Date:	11/18/1985
Last 5-year Review Date:	04/30/2020	5-year Review Due Date:	05/01/2025

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	[26,032 tons]	26,032 cubic yards
Estimated Remaining Life:	5 years (based on average daily disposal of 16.6 tpd, 365 days per year)	
In-Place Density:	0.75-1.25 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	49 tons	[49 cubic yards]
Yearly Equivalent:	17,885 tons	[17,885 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily (based on 6 days):	11 tons	[11 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.:	96-162-(4)	Effective:	07/29/1998	Expiration:	07/02/2028
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6. WASTE DISCHARGE REQUIREMENTS

Order No.:	R4-2002-0058	Effective:	02/28/2002
Order No.:	R4-2011-0052	Effective:	03/03/2011
Order No.:	R4-2011-0165	Effective:	11/07/2011

7. FOC GRANT DATE - 01/21/1999

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - There is no wasteshed restriction on origin of waste. However, due to its location on Santa Catalina Island, only the City of Avalon and adjacent unincorporated County areas have access to this facility. Based on the SWFP, no Haz-Mat, designated waste, medical waste, or liquids accepted at the facility. Sewage must be at least 50 percent solids on sludge.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Los Angeles County Countywide Integrated Waste Management Plan

San Clemente Island Landfill

1. FACILITY INFORMATION

Owner: U.S. Department of the Navy

Operator: U.S. Department of the Navy

Address: San Clemente Island, CA

Operating Days: 2 days/week

SWFP No.: 19-AA-0063

SWFP Issue Date: 06/24/1997

Last 5-year Review Date: 04/22/2018

5-year Review Due Date: 04/22/2023

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity: [35,126 tons] 281,008 cubic yards

Estimated Remaining Life: 19 years (based on maximum permitted rate of 9.6 tpd, 104 days per year)

In-Place Density: 0.125 tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 9.6 tons [77 cubic yards]

Yearly Equivalent: 991 tons [7,928 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily (based on 6 days): 2. ton [17 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT – Not Applicable

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2004-0057

Effective: 04/01/2004

Order No.: R4-2010-0045

Effective: 03/04/2010

7. FOC GRANT DATE – None

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space. None.

10. RESTRICTIONS - This landfill is used solely by the U.S. Department of the Navy. SWFP is still under review by CalRecycle as they address new Title 27 methane monitoring requirements.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Scholl Canyon Landfill

1. FACILITY INFORMATION

Owner: City of Glendale & County of Los Angeles

Operator: County Sanitation District No. 2 of Los Angeles County

Address: 7721 N. Figueroa St, Los Angeles, CA, 90041

SWFP No.: 19-AA-0012

Last 5-year Review Date: 12/13/2021

Operating Days: Monday-Saturday

SWFP Issue Date: 12/13/2011

5-year Review Due Date: 12/13/2021

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	3,408,185 tons	5,744,414 cubic yards
Estimated Remaining Life:	8 years (based on average daily disposal of 1,485 tpd, 307 days per year)	
In-Place Density:	[0.593 tons/cubic yard]	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	3,400 tons	[5,734 cubic yards]
Yearly Equivalent:	[1,050,600 tons]	[1,771,669 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily (based on 6 days):	1,482 tons	[2,505 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 6668-U (Zoning Variance)	Effective: 10/07/1997
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6. WASTE DISCHARGE REQUIREMENTS

Order No.: 01-132	Effective: 09/19/2001;
Order No.: R4-2011-0052	Effective: 03/03/2011

7. FOC GRANT DATE - None

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The use of the Landfill is restricted by the City of Glendale Ordinance 4780 to the County of Los Angeles Cities of Glendale, La Canada Flintridge, Pasadena, South Pasadena, San Marino, and Sierra Madre; and the Los Angeles County unincorporated areas of Altadena, La Crescenta, Montrose; the unincorporated area bordered by the incorporated cities of San Gabriel, Rosemead, Temple City, Arcadia and Pasadena; and the unincorporated area immediately to the north of the City of San Marino bordered by the City of Pasadena on the west, north, and east sides.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Southeast Resource Recovery Facility (SERRF)

1. FACILITY INFORMATION

Owner: Southeast Resource Recovery Facility Authority, a joint powers authority consisting of the City of Long Beach and the Los Angeles County Sanitation District No. 2

Operator: City of Long Beach

Address: 120 Henry Ford Avenue, Long Beach, CA 90802

Operating Days: Monday-Friday (receive)
Monday-Sunday (process)

SWFP No.: 19-AK-0083

SWFP Issue Date: 08/19/2015

Last 5-year Review Date: 07/16/2019

5-year Review Due Date: 06/26/2024

2. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 2,240 tons (SWFP Requirement)

3. 2021 AVERAGE TRANSFORMED WASTE QUANTITIES (INCLUDING IMPORT QUANTITIES)

Daily Received: 1,029 tpd (based on 6 days)

Daily Processed: 1,029 tpd

4. LAND USE/CONDITIONAL USE PERMIT

Permit No.: HDP-84174

5. WASTE DISCHARGE REQUIREMENTS - Not Applicable

6. PERMITTED WASTE TYPES - Solid waste

7. FOC GRANT DATE - 09/18/1997

8. FUTURE LAND USE - Not applicable

9. RESTRICTIONS - There is no wasteshed or restriction on origin of waste. 2,240 tpd per SWFP.

10. REMARKS/STATUS - SERRF will continue to operate until June 2024 at its current average daily rate during the planning period. The city of Long Beach has announced an amended agreement to provide for the continued operation of SERRF and allow for opportunities to process higher-value waste. The owner and operator of SERRF has indicated that there are no plans to increase the permitted daily capacity.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Sunshine Canyon City/County Landfill

1. FACILITY INFORMATION

Owner: Republic Services, Inc.
Address: 14747 San Fernando Road, Sylmar 91342
SWFP No.: 19-AA-2000
Last 5-year Review Date: 12/27/2018

Operator: Republic Services, Inc.
Operating Days: Monday-Saturday
SWFP Issue Date: 07/07/2008
5-year Review Due Date: 12/27/2023

2. REMAINING PERMITTED CAPACITY (as of December 31, 2021)

Remaining Permitted Capacity:	[55,640,543 tons]	67,036,799 cubic yards
Estimated Remaining Life:	16 years (based on average daily disposal of 12,100 tpd, 312 days per year)	
In-Place Density:	[0.83 tons/cubic yard]	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	12,100 tons	[14,756 cubic yards]
Yearly Equivalent:	[3,775,200 tons]	[4,603,902 cubic yards]

4. 2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)

Daily (based on 6 days):	8,542 tons	[10,292 cubic yards]
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5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 00-194-(5)	Effective: 02/06/2006	Expiration: 01/29/2037 or when landfill capacity is exhausted, whichever is sooner
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6. WASTE DISCHARGE REQUIREMENTS

Order No.: 93-062	Effective: 09/27/1993
Order No.: R4-2006-0007	Effective: 01/19/2006
Order No.: R4-2007-0064	Effective: 12/06/2007
Order No.: R4-2008-0088	Effective: 10/02/2008
Order No.: R4-2011-0052	Effective: 03/03/2011

7. FOC GRANT DATE – 12/18/2008

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

10. RESTRICTIONS - The Landfill cannot accept incinerator ash or biosolids (sewage sludge). The Landfill is prohibited from accepting any solid waste generated outside the County.

11. REMARKS/STATUS - On December 31, 2008, operations in the Sunshine Canyon County Landfill and the Sunshine Canyon City Landfill were combined into one to what is known as the Sunshine Canyon City/County Landfill.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

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Whittier (Savage Canyon) Landfill

1. **FACILITY INFORMATION**

Owner: City of Whittier
Address: 13919 E. Penn St., Whittier, CA 90602

Operator: City of Whittier - DPW
Operating Days: Monday-Saturday

SWFP No.: 19-AH-0001
Last 5-year Review Date: 10/30/2018

SWFP Issue Date: 10/30/2018
5-year Review Due Date: 10/30/2023

2. **REMAINING PERMITTED CAPACITY (as of December 31, 2021)**

Remaining Permitted Capacity: 4,261,790 tons [5,327,237 cubic yards]
Estimated Remaining Life: 34 years (based on the current SWPF estimated closure date)
In-Place Density: 0.80 tons/cubic yard

3. **MAXIMUM PERMITTED DAILY CAPACITY**

Daily: 350 tons [438 cubic yards]
Yearly Equivalent: 109,200 tons [136,500 cubic yards]

4. **2021 AVERAGE WASTE QUANTITIES DISPOSED (INCLUDING IMPORT QUANTITIES)**

Daily (based on 6 days): 285 tons [356 cubic yards]

5. **LAND USE/CONDITIONAL USE PERMIT**

Permit No.: City Resolution No. 4907 **Effective:** 08/23/1977 **Expiration:** Completion of project

6. **WASTE DISCHARGE REQUIREMENTS**

Order No. 93-062 **Effective:** 09/27/1993
Order No.: R4-2006-0007 **Effective:** 01/19/2006
Order No.: R4-2006-0080 **Effective:** 10/24/2006
Order No.: R4-2011-0052 **Effective:** 03/03/2011

7. **FOC GRANT DATE** – 11/30/1978

8. **PERMITTED WASTE TYPES** - Mixed municipal, Construction/demolition, Industrial, Green Materials, and Inert waste.

9. **FUTURE LAND USE** - Open space

10. **RESTRICTIONS** - Hazardous, radioactive, liquid, or medical waste are all prohibited per Chapter 6.1, Division 20 of California Health and Safety Code.

Note: Information above was provided by the landfill operator by completing the Annual Survey Form or through the Solid Waste Information Management System (SWIMS) as of September 2022. Data may vary from what was submitted by the landfill operator to CalRecycle's Recycling and Disposal Reporting System (RDRS). Calculated or assumed quantities are shown in brackets.

APPENDIX E-2: TABLES

Table 4 - Remaining Permitted Capacity of Existing Solid Waste Disposal Facilities in Los Angeles County

Table 5 – Summary of Existing Inert Debris Disposal Sites in Los Angeles County

Table 6 - Population, Employment, Real Taxable Sales, and Waste Generation in Los Angeles County

Table 7 - Los Angeles County Solid Waste Disposal Capacity Need Projection

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APPENDIX E-2 TABLE 4
REMAINING PERMITTED DISPOSAL CAPACITY OF EXISTING SOLID WASTE DISPOSAL FACILITIES IN LOS ANGELES COUNTY

Facility	Solid Waste Facility Permit Number	Location City or Unincorporated Area	Permitted Operation	SWFP Maximum Daily Capacity (See Note 1)	LUP/CUP Maximum Daily Disposal Capacity	2021 Annual Disposal (Million Tons) (See Note 2)			2021 Average Daily Disposal tpd-6 (See Note 3)			Estimated Remaining Permitted Capacity (as of December 31, 2021) (See Note 4)		Remaining Life (b) Years	Tipping Fee (\$ per ton)	Comments
						days/week	Tons	Tons	In-County	Out-of-County	Total	In-County	Out-of-County			
Antelope Valley	19-AA-5624	Palmdale	6	5,548	3,600	0.805	0.021	0.825	2,579	66	2,645	9.24	12.32	8	\$73.48	
Burbank	19-AA-0040	Burbank	5	240	---	0.036	0.000	0.036	115	0	115	2.37	4.31	32	\$46.16	Limited to the City of Burbank use only.
Calabasas	19-AA-0056	Unincorporated Area	6	3,500	3,500	0.264	0.016	0.280	845	52	897	4.51	7.64	8	\$52.32	Limited to the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003.
Chiquita Canyon	19-AA-0052	Unincorporated Area	6	12,000	6,616 ('17-'24) 3,411 ('25-'47)	1.920	0.098	2.018	6,153	315	6,468	51.63	52.52	26	\$68.00	
Lancaster	19-AA-0050	Unincorporated Area	6	5,100	3,000	0.119	0.005	0.124	381	16	397	9.84	13.12	20	\$76.96-\$79.61	
Pebbly Beach	19-AA-0061	Unincorporated Area	7	49	49	0.004	0.000	0.004	13	0	13	0.03	0.03	7	\$145.20	LUP expires July 29, 2028.
San Clemente	19-AA-0063	San Clemente Island	2	10	---	0.0003	0.000	0.0003	1	0	1	0.035	0.28	18	Not Available	Landfill owned and operated by the U.S. Navy.
Scholl Canyon	19-AA-0012	Glendale/ Unincorporated Area	6	3,400	---	0.423	0.000	0.423	1,355	0	1,355	2.95	4.98	7	\$53.88	Limited to the Scholl Canyon Wasteshed as defined by City of Glendale Ordinance No. 4780.
Sunshine Canyon City/County	19-AA-2000	Los Angeles/ Unincorporated Area	6	12,100	11,000	2.443	0.000	2.443	7,830	0	7,830	52.22	63.68	16	\$98.09	
Whittier (Savage Canyon)	19-AH-0001	Whittier	6	3,350	---	0.091	0.000	0.091	293	0	293	4.26	5.33	34	\$43.85-\$57.32	Limited to use by City of Whittier and waste haulers contracted with the City of Whittier.
TOTAL				45,297	27,765	6.104	0.140	6.244	19,564	448	20,013	137.09	164.21	--	--	

Permitted Inert Landfills																
Azusa Land Reclamation	19-AA-0013	Azusa	6	8,000	---	0.307	0.096	0.403	985	307	1,292	50.77	40.62	24		By Court Order, on October 2, 1996, the California Regional Water Quality Control Board-Los Angeles region ordered the Azusa Land Reclamation Landfill to stop accepting Municipal Solid Waste.
TOTAL				8,000	---	0.307	0.096	0.403	985	307	1,292	50.77	40.62	---		

Transformation Facilities											Available Average Daily Capacity (tpd)				
Southeast Resource Recovery Facility	19-AK-0083	Long Beach	7	2,240	---	0.335	0.040	0.375	1,073	128	1,201	1,370 (d)		\$105.00	
TOTAL				2,240	---	0.335	0.040	0.375	1,073	128	1,201	1,370 (e)			

Out-of-County Disposal	Los Angeles County Waste Exported in 2018 to Out-of-County Class III Disposal Facilities = 4,513,262 tons or 14,466 tpd-6														
------------------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- NOTES:
1. Maximum Daily Capacity includes maximum daily disposal capacities and may include other materials permitted for beneficial use, recycling, etc.
2. Disposal quantities are based on actual tonnages reported by owners/operators of permitted solid waste disposal facilities to the Los Angeles County Department of Public Works' Solid Waste Information Management System (www.LACountySWIMS.org) or to CalRecycle's Recycling and Disposal Reporting System SWFP
3. Average daily disposal quantities are based on 312 days (6 days per week, average)
4. Estimated Remaining Permitted Capacity is based on landfill owner/operator's response in a written survey conducted by Los Angeles County Department of Public Works in July 2021 as well as site-specific permit criteria established by local land use agencies, Local Enforcement Agencies, CalRecycle, Water Quality Control Board, and the South Coast Air Quality Management District.
- Abbreviation:
LUP Land Use Permit
SWFP Solid Waste Facility Permit
CUP Conditional Use Permit

- FOOTNOTES:
- (a) Conversion factor based on in-place solid waste density is provided by landfill operators, otherwise a conversion factor of 1,200 lb/cy was used for Class III landfills.
(b) Remaining Life is based on either the 2018 average daily disposal tonnage, maximum permitted capacity, or the facility's permit expiration date.
(c) Based on the Solid Waste Facility Permit limit of 2,800 tons per week, expressed as a daily average, seven days per week.
(d) Based on EPA limit of 500,000 tons per year, expressed as a daily average, seven days per week.
(e) Tonnage expressed as a daily average, seven days per week.

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APPENDIX E-2 TABLE 5
SUMMARY OF EXISTING INERT DEBRIS DISPOSAL SITES IN LOS ANGELES COUNTY (AS OF DECEMBER 31, 2021)

Facility	SWIS No.	Location	Operation days/week	Enforcement Agency Notification (EAN) Maximum Daily Capacity		2021 Average Daily Disposal ¹		2021 Annual Disposal ²	
				(cubic yards) ³	(tpd) ³	(cubic yards)	(tpd)	(cubic yards)	(tons)
Durbin Landfill	19-AA-1111	Irwindale	5	3,840	4,800	1,510	1,888	471,223	589,029
Hanson Aggregates West, Inc.	19-AA-0044	Irwindale	6	3,205	4,006	676	845	210,897	263,621
Manning Pit ⁴	N/A ⁵	Irwindale	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Montebello Land & Water Co.	19-AA-0019	Montebello	5	1	1	0.59	1	186	202
North Kincaid Pit ⁶	N/A	Irwindale	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nu-Way Arrow Reclamation	19-AA-1074	Irwindale	6	6,923	8,654	1,387	1,734	432,799	540,999
Peck Road Gravel Pit ⁶	19-AA-0838	Monrovia	7	3,200	4,000	218	272	67,881	84,851
Sun Valley Landfill	19-AR-1160	Sun Valley	5	1,458	1,823	2,737	3,422	854,013	1,067,516
United Rock Products Pit #2	19-AA-0046	Irwindale	6	3,077	3,846	2,747	3,433	856,933	1,071,166
TOTAL				21,704	27,130	8,599	10,749	2,893,931	3,617,383

NOTES:

1. Disposal quantities for 2021 are based on actual tonnages reported by owners/operators through the Solid Waste Management Fee invoice receipt.
2. Conversion factor based on in-place solid waste density if provided by landfill operators, otherwise a conversion factor of 2,500 lb/cy was used.
3. Derived from the permit values noted in the CalRecycle Website as of July 2021.
4. Manning Pit closed in April 2019.
5. N/A means not available.
6. North Kincaid Pit is unclassified as of December 31, 2019.

Source: Los Angeles County Public Works

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APPENDIX E-2 TABLE 6
POPULATION, EMPLOYMENT, REAL TAXABLE SALES, AND WASTE GENERATION IN LOS ANGELES COUNTY

YEAR	POPULATION	EMPLOYMENT	REAL TAXABLE SALES	B-YRWG	B-YNWG	RAF	NAF	TOTAL GENERATION (TONS)
2021	10,188,500	4,221,500	\$149,800,000,000	9,387,602	21,904,405			31,292,007
2022	10,209,900	4,449,400	\$152,100,000,000	9,387,602	21,904,405	1.018385042	1.034669678	32,224,017
2023	10,236,200	4,561,200	\$151,900,000,000	9,387,602	21,904,405	1.025962804	1.04724386	32,570,584
2024	10,267,500	4,630,900	\$152,000,000,000	9,387,602	21,904,405	1.031793419	1.055832997	32,813,460
2025	10,297,700	4,679,100	\$152,200,000,000	9,387,602	21,904,405	1.036463696	1.062209425	32,996,974
2026	10,324,600	4,724,400	\$152,500,000,000	9,387,602	21,904,405	1.040967175	1.068576152	33,178,711
2027	10,348,400	4,755,100	\$152,800,000,000	9,387,602	21,904,405	1.0444539	1.073213635	33,313,024
2028	10,369,700	4,786,200	\$153,100,000,000	9,387,602	21,904,405	1.047841626	1.077898495	33,447,446
2029	10,388,500	4,817,600	\$153,400,000,000	9,387,602	21,904,405	1.051124431	1.082618888	33,581,661
2030	10,407,400	4,849,300	\$153,700,000,000	9,387,602	21,904,405	1.05442991	1.087374812	33,716,867
2031	10,426,300	4,881,300	\$154,000,000,000	9,387,602	21,904,405	1.057753155	1.092166269	33,853,018
2032	10,445,300	4,913,600	\$154,300,000,000	9,387,602	21,904,405	1.061099073	1.096993259	33,990,161
2033	10,464,300	4,946,300	\$154,700,000,000	9,387,602	21,904,405	1.064635569	1.102201403	34,137,441
2034	10,483,300	4,979,200	\$155,000,000,000	9,387,602	21,904,405	1.06801702	1.107099458	34,276,474
2035	10,502,300	5,012,500	\$155,300,000,000	9,387,602	21,904,405	1.07142216	1.112044888	34,416,767
2036	10,521,400	5,046,200	\$155,600,000,000	9,387,602	21,904,405	1.074855895	1.117037696	34,558,366

Population: Countywide Population Projection (UCLA, Long Term Forecast of Los Angeles County, July 2021)

Employment: Countywide Employment Projection (UCLA, Long Term Forecast of Los Angeles County, July 2021)

Employment data from UCLA only accounts for non-farm employment.

Real Taxable Sales: Countywide Taxable Sales (Source of information is UCLA, Long Term Forecast of Los Angeles County, July 2021).

Real Taxable Sales data from UCLA considers the real dollar value. (Real Taxable Sales)

B-Y RWG = Base Year Residential Waste Generation. Calculation based on California 2008 Statewide Waste Characterization Study. Single-family and multifamily residential waste together account for 30 percent of the state's waste stream.

B-Y NWG = Base Year Non-Residential Waste Generation. Calculation based on California 2008 Statewide Waste Characterization Study (All other sources account for 70 percent of the state's total waste stream).

RAF = Residential Adjustment Factor = $\{(PR/PB)+[ER/EB+(CB/CR*TR/TB)]/2\}/2$

NAF = Non-Residential Adjustment Factor = $[ER/EB+(CB/CR*TR/TB)]/2$

The Adjustment Methodology Formula as adopted by the CIWMB is expressed as follows:

Estimated Reporting Year Solid Waste Generation = $\{[(B-Y RWG) (RAF)] + [(B-Y NWG)(NAF)]\}$

PR= Reporting Year Population

ER= Reporting Year Employment

CR= Reporting Year Consumer Price Ind

TR= Reporting Year Taxable Sales

PB= Base Year Population

EB= Base Year Employment

CB= Base Year Consumer Price Index

TB= Base Year Taxable Sales

Source: Los Angeles County Department of Public Works

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LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 7
LOS ANGELES COUNTY SOLID WASTE DISPOSAL CAPACITY NEED PROJECTION

A	B	C	D	E	F	G	H	I	J
YEAR	TOTAL GENERATION TONS	PERCENT DIVERSION (ASSUMED)	TOTAL DIVERSION TONS	PROJECTED TRANSFORMATION & CLASS III LANDFILL DISPOSAL (TONS)	AVAILABLE TRANSFORMATION CAPACITY TONS	CLASS III LANDFILL DISPOSAL NEED			
						ANNUAL		CUMULATIVE (YEAR'S END)	
						TONS	CUBIC YARDS	TONS	CUBIC YARDS
2021	31,292,007	65%	20,339,805	10,952,203	500,000	10,452,203	17,420,338	10,452,203	17,420,338
2022	32,224,017	65%	20,945,611	11,278,406	500,000	10,778,406	17,964,010	21,230,609	35,384,348
2023	32,570,584	65%	21,170,880	11,399,705	500,000	10,899,705	18,166,174	32,130,313	53,550,522
2024	32,813,460	65%	21,328,749	11,484,711	500,000	10,984,711	18,307,852	43,115,024	71,858,373
2025	32,996,974	65%	21,448,033	11,548,941	500,000	11,048,941	18,414,902	54,163,965	90,273,275
2026	33,178,711	65%	21,566,162	11,612,549	250,000	11,362,549	18,937,581	65,526,514	109,210,856
2027	33,313,024	65%	21,653,466	11,659,558	0	11,659,558	19,432,597	77,186,072	128,643,454
2028	33,447,446	65%	21,740,840	11,706,606	0	11,706,606	19,511,010	88,892,678	148,154,463
2029	33,581,661	65%	21,828,079	11,753,581	0	11,753,581	19,589,302	100,646,259	167,743,766
2030	33,716,867	65%	21,915,963	11,800,903	0	11,800,903	19,668,172	112,447,163	187,411,938
2031	33,853,018	65%	22,004,462	11,848,556	0	11,848,556	19,747,594	124,295,719	207,159,532
2032	33,990,161	65%	22,093,604	11,896,556	0	11,896,556	19,827,594	136,192,275	226,987,125
2033	34,137,441	65%	22,189,337	11,948,104	0	11,948,104	19,913,507	148,140,380	246,900,633
2034	34,276,474	65%	22,279,708	11,996,766	0	11,996,766	19,994,610	160,137,146	266,895,243
2035	34,416,767	65%	22,370,898	12,045,868	0	12,045,868	20,076,447	172,183,014	286,971,690
2036	34,558,366	65%	22,462,938	12,095,428	0	12,095,428	20,159,047	184,278,442	307,130,736

NOTES:

1. Waste generation (Column B) is calculated using CalRecycle's Adjustment Methodology, utilizing employment, population, and taxable sales projections from UCLA Anderson Long-term Forecast (July 2021).
2. Waste generation for 2021 is based on actual in-County and out-of-County transformation and Class III landfill disposal by jurisdictions in Los Angeles County. These tonnages DO NOT include inert waste disposed at permitted inert landfills or at Class III landfills.
3. The 2021 transformation and Class III landfill disposal quantity (first figure under Column E) is based on tonnages reported by permitted solid waste disposal facility operators in Los Angeles County and export quantities reported by other counties to Los Angeles County Public Works as part of the 2021 Disposal Quantity Reporting data.
4. The available transformation capacity is based on (1) EPA limit of 500,000 tons per year (expressed as a daily average, seven days per week) for Southeast Resource Recovery Facility (SERRF). SERRF is assumed to cease its operation in June 2024.
5. Columns H and J are based on Columns G and I, respectively, using an in-place waste density of 1,200 lb/cy.

Source: Los Angeles County Public Works

APPENDIX E-3: DISPOSAL CAPACITY ANALYSIS SCENARIOS

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DISPOSAL CAPACITY NEED ANALYSIS (EXCLUDING INERT WASTE LANDFILLS)

APPENDIX E-3

SCENARIO I - UTILIZATION OF EXISTING IN-COUNTY DISPOSAL CAPACITY ONLY

- Existing In-County Class III Landfills and Transformation Facilities
- Diversion Rate at 65%
- No Utilization of Out-of-County Disposal Capacity

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities ²	Exports to Out-of-County Landfills ³	Class III Landfill Daily Disposal Demand	1	2	3	4		5	6	7	8	9	10	11	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								IN-COUNTY CLASS III LANDFILLS ³												
								Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	R San Clemente	R Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)	Total In-County Class III Landfill Available Disposal Capacity ³ (tpd-6)		
								Maximum Permitted Daily Disposal Capacity (tpd-6) Expected Average Daily Disposal Tonnage (tpd-6) Remaining Disposal Capacity at Year's End (Million Tons)										Total In-County Class III Landfill Remaining Disposal Capacity (million tons)		
																		H (tpd-6)		
A (tpd-6)	B	C=A(1-B) (tpd-6)	D (tpd-6)	E (tpd-6)	F (tpd-6)	G=C+D-E-F (tpd-6)											I=G-H (tpd-6)			
2021	100,295	65%	35,103	577	1,073	14,466	20,141	3,600 2,579 9.2	240 115 2.4	3,500 845 4.5	6,616 6,153 51.6	3,000 381 9.8	49 13 0.03	10 1 0.04	3,400 1,355 3.0	11,000 7,830 52.2	350 293 4.3	26,837 137	--	
2022	103,282	65%	36,149	600	1,200	14,649	20,900	3,600 2,676 8.4	240 119 2.3	3,500 877 4.2	6,616 6,616 49.6	3,000 396 9.7	49 13 0.02	10 1 0.03	3,400 1,406 2.5	11,000 8,125 49.7	350 304 4.2	26,936 131	--	
2023	104,393	65%	36,538	600	1,200	0	35,938	3,600 3,600 7.3	240 204 2.3	3,500 1,508 3.8	6,616 6,616 47.5	3,000 680 9.5	49 22 0.02	10 2 0.03	3,400 2,418 1.8	11,000 11,000 46.3	350 350 4.1	28,720 122	7,217	
2024	105,171	65%	36,810	600	600	0	36,810	3,600 3,600 6.2	240 209 2.2	3,500 1,545 3.3	6,616 6,616 45.4	3,000 697 9.3	49 23 0.01	10 2 0.03	3,400 2,477 1.0	11,000 11,000 42.8	350 350 3.9	28,821 114	7,989	
2025	105,760	65%	37,016	600	0	0	37,616	3,600 3,600 5.0	240 214 2.1	3,500 1,579 2.8	6,616 3,411 44.4	3,000 712 9.1	49 23 0.001	10 2 0.03	3,400 2,531 0.2	11,000 11,000 39.4	350 350 3.8	28,914 107	8,701	
2026	106,342	65%	37,220	600	0	0	37,820	3,600 3,600 3.9	240 215 2.1	3,500 1,587 2.3	6,616 3,411 43.3	3,000 716 8.8	49 23 CC	10 2 0.03	3,400 2,545 CC	11,000 11,000 36.0	350 350 3.7	28,938 100	8,882	
2027	106,773	65%	37,370	600	0	0	37,970	3,600 3,600 2.8	240 216 2.0	3,500 1,593 1.8	6,616 3,411 42.2	3,000 719 8.6		10 2 0.03		11,000 11,000 32.5	350 350 3.6	23,172 94	14,798	
2028	107,203	65%	37,521	600	0	0	38,121	3,600 3,600 1.7	240 217 1.9	3,500 1,600 1.3	6,616 3,411 41.2	3,000 722 8.4		10 1 0.04		11,000 11,000 29.1	350 350 3.5	23,179 87	14,942	
2029	107,634	65%	37,672	600	0	0	38,272	3,600 3,600 0.5	240 218 1.9	3,500 1,606 CP	6,616 3,411 40.1	3,000 725 8.2		10 1 0.03		11,000 11,000 25.7	350 350 3.4	23,186 80	15,086	
2030	108,067	65%	37,823	600	0	0	38,423	3,600 3,600 CC	240 219 1.8		6,616 3,411 39.1	3,000 727 7.9		10 1 0.03		11,000 11,000 CP	350 350 3.3	21,581 74	16,843	
2031	108,503	65%	37,976	600	0	0	38,576		240 219 1.7		6,616 3,411 38.0	3,000 730 7.7		10 1 0.03		11,000 11,000 18.8	350 350 3.2	17,982 69	20,595	
2032	108,943	65%	38,130	600	0	0	38,730		240 220 1.7		6,616 3,411 36.9	3,000 733 7.5		10 1 0.03		11,000 11,000 15.4	350 350 3.1	17,982 65	20,748	
2033	109,415	65%	38,295	600	0	0	38,895		240 221 1.6		6,616 3,411 35.9	3,000 736 7.3		10 1 0.03		11,000 11,000 11.9	350 350 3.0	17,983 60	20,912	
2034	109,860	65%	38,451	600	0	0	39,051		240 222 1.5		6,616 3,411 34.8	3,000 739 7.0		10 1 0.03		11,000 11,000 8.5	350 350 2.9	17,984 55	21,067	
2035	110,310	65%	38,609	600	0	0	39,209		240 223 1.5		6,616 3,411 33.7	3,000 742 6.8		10 1 0.03		11,000 11,000 5.1	350 350 2.7	17,985 50	21,223	
2036	110,764	65%	38,767	600	0	0	39,367		240 224 1.4		6,616 3,411 32.7	3,000 745 6.6		10 1 0.03		11,000 11,000 1.6	350 350 2.6	17,986 45	21,381	

ASSUMPTIONS:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, July 2021.

2. Daily Available Capacity from Transfomation Facilities assume Southeast Resource Recovery Facility will cease its operation on June 2024.

3. The scenario assumes utilization of in-County disposal capacity only.

4. Total In-County Class III Landfill Available Capacity is calculated based on Maximum Permitted Daily Capacity (in blue text) for facilities without a restricted wasteshed or Expected Average Daily Tonnage for facilities with a restricted wasteshed (R). Chiquita Canyon Landfill's expected average daily tonnage is based on the limits set on the new conditional use permit and therefore used to calculate the Total In-County Class III landfill Available Capacity.

5. This scenario also considers the effect of Assembly Bill 1594 that removes diversion credit from green waste used as alternative daily cover (ADC) at landfills.

LEGEND:

CC/CP - Closure due to exhausted capacity (CC) or permit expiration (CP)

E - Expansion may become effective

R - Restricted wasteshed

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APPENDIX E-3
SCENARIO II - STATUS QUO

• Existing In-County Class III Landfills and Transformation Facilities

• Diversion Rate at 65%

• Exports based on Existing Export Agreements

Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities ²	Exports to Out-of-County Landfills	Class III Landfill Daily Disposal Demand	1	2	3	4	5	6	7	8	9	10	11	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								IN-COUNTY CLASS III LANDFILLS										Total In-County Class III Landfill Available Disposal Capacity ³ (tpd-6) ----- Total In-County Class III Landfill Remaining Disposal Capacity (million tons)	
								Antelope Valley	Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	R San Clemente	Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)		
A	B	C=A(1-B)	D	E	F	G=C+D-E-F											H	I=G-H	
(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)											(tpd-6)	(tpd-6)	
2021	100,295	65%	35,103	577	1,073	14,466	20,141	3,600	240	3,500	6,616	3,000	49	10	3,400	11,000	350	26,837	--
								2,579	115	845	6,153	381	13	1	1,355	7,830	293		
								9.2	2.4	4.5	51.6	9.8	0.03	0.04	3.0	52.2	4.3	137	
2022	103,282	65%	36,149	600	1,200	14,859	20,689	3,600	240	3,500	6,616	3,000	49	10	3,400	11,000	350	26,908	--
								2,650	118	868	6,616	392	13	0.92	1,392	8,043	301		
								8.4	2.3	4.2	49.6	9.7	0.02	0.03	2.5	49.7	4.2	131	
2023	104,393	65%	36,538	600	1,200	15,022	20,916	3,600	240	3,500	6,616	3,000	49	10	3,400	11,000	350	26,938	(6,022)
								2,678	119	878	6,616	396	13	0.93	1,407	8,131	304		
								7.6	2.3	4.0	47.5	9.6	0.02	0.03	2.1	47.2	4.1	124	
2024	105,171	65%	36,810	600	600	15,387	21,423	3,600	240	3,500	6,616	3,000	49	10	3,400	11,000	350	27,004	(5,581)
								2,744	122	899	6,616	406	13	0.95	1,441	8,328	311		
								6.7	2.3	3.7	45.4	9.5	0.01	0.03	1.6	44.6	4.0	118	
2025	105,760	65%	37,016	600	0	15,724	21,892	3,600	240	3,500	6,616	3,000	49	10	3,400	11,000	350	23,860	(1,968)
								2,804	125	919	3,411	414	14	0.97	1,473	8,511	318		
								5.8	2.2	3.4	44.4	9.3	0.01	0.03	1.2	41.9	3.9	112	
2026	106,342	65%	37,220	600	0	15,809	22,011	3,600	240	3,500	6,616	3,000	49	10	3,400	11,000	350	23,905	(1,895)
								2,819	125	924	3,411	417	14	0.97	1,481	8,557	350		
								5.0	2.2	3.1	43.3	9.2	0.01	0.03	0.7	39.3	3.8	107	
2027	106,773	65%	37,370	600	0	15,872	22,099	3,600	240	3,500	3,411	3,000	49	10	3,400	11,000	350	23,916	(1,817)
								2,830	126	927	3,411	418	14	0.98	1,487	8,591	350		
								4.1	2.1	2.8	42.2	9.1	0.00	0.03	0.2	36.6	3.7	101	
2028	107,203	65%	37,521	600	0	15,935	22,186	3,600	240	3,500	3,411	3,000	49	10	3,400	11,000	350	23,926	(1,739)
								2,841	126	931	3,411	420	14	0.98	1,493	8,625	350		
								3.2	2.1	2.5	41.2	8.9	CC/CP	0.03	CC	33.9	3.5	95	
2029	107,634	65%	37,672	600	0	15,998	22,274	3,600	240	3,500	3,411	3,000		10		11,000	350	22,423	(149)
								2,852	127	935	3,411	422		0.99		8,659	350		
								2.3	2.1	2.2	40.1	8.8		0.03		31.2	3.4	90	
2030	108,067	65%	37,823	600	0	16,061	22,362	3,600	240	3,500	3,411	3,000		10		11,000	350	22,428	(65)
								2,864	127	938	3,411	423		0.99		8,693	350		
								1.4	2.0	1.9	39.1	8.7		0.03	CP	28.5	3.3	85	
2031	108,503	65%	37,976	600	0	16,125	22,451	3,600	240	3,500	3,411	3,000		10		11,000	350	22,432	19
								2,875	128	942	3,411	425		0.99		8,728	350		
								0.5	2.0	1.6	38.0	8.6		0.03		25.7	3.2	80	
2032	108,943	65%	38,130	600	0	16,189	22,541	3,600	240	3,500	3,411	3,000		10		11,000	350	22,436	105
								2,887	128	946	3,411	427		1.00		8,763	350		
								CC	1.9	1.4	36.9	8.4		0.03		23.0	3.1	75	
2033	109,415	65%	38,295	600	0	16,258	22,637		240	3,500	3,411	3,000		10		11,000	350	18,841	3,796
									129	950	3,411	429		1.00		8,800	350		
									1.9	1.1	35.9	8.3		0.03		20.3	3.0	70	
2034	109,860	65%	38,451	600	0	16,324	22,728		240	3,500	3,411	3,000		10		11,000	350	18,845	3,883
									129	954	3,411	430		1.01		8,836	350		
									1.9	0.8	34.8	8.1		0.03		17.5	2.9	66	
2035	110,310	65%	38,609	600	0	16,389	22,819		240	3,500	3,411	3,000		10		11,000	350	18,849	3,970
									130	958	3,411	432		1.01		8,871	350		
									1.8	0.5	33.7	8.0		0.03		14.7	2.8	62	
2036	110,764	65%	38,767	600	0	16,456	22,912		240	3,500	3,411	3,000		10		11,000	350	18,854	4,058
									130	961	3,411	434		1.01		8,907	350		
									1.8	0.2	32.7	7.9		0.03		12.0	2.7	57	

ASSUMPTIONS:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, July 2021.
2. Daily Available Capacity from Transformation Facilities assume Southeast Resource Recovery Facility will cease its operation on June 2024.
3. Total In-County Class III Landfill Available Capacity is calculated based on Maximum Permitted Daily Capacity (in blue text) for facilities without a restricted watershed or Expected Average Daily Tonnage for facilities with a restricted watershed (R).
Chiquita Canyon Landfill's average daily tonnage is based on the limits set on the new conditional use permit and therefore used to calculate the Total In-County Class III landfill Available Capacity.
4. This scenario also considers the effect of Assembly Bill 1594 that removes diversion credit from green waste used as alternative daily cover (ADC) at landfills.

LEGEND:

- CC/CP - Closure due to exhausted capacity (CC) or permit expiration (CP)
E - Expansion may become effective
R - Restricted watershed

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APPENDIX E-3
SCENARIO III - MEETING SENATE BILL 1383 ORGANIC WASTE DISPSOSAL REDUCTION TARGETS

• Existing In-County Class III Landfills & Transformation Facilities

• Diversion Rate (up to 76 percent)

• Exports based on Existing Export Agreements

Year	Generation Total Solid Waste Generation Rate ¹	Diversion		Disposal			Imports from Other Counties	Daily Available Capacity from Transformation Facilities ⁵	Exports to Out-of-County Landfills	Class III Landfill Daily Disposal Demand	1	2	3	4	5	6	7	8	9	10	11	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
				Total Solid Waste Diversion Rate ²	Total Solid Waste Diversion Tonnage ³	Total Solid Waste Daily Disposal Demand ⁴					Organic Waste Disposal Tonnage ⁵	Total Solid Waste Disposal Demand	IN-COUNTY CLASS III LANDFILLS									
		R																				
		Antelope Valley	Burbank										Calabasas	Chiquita	Lancaster	Pebbley Beach	San Clemente	Scholl	Sunshine City/County Combined	Whittier (Savage Canyon)		
A	B	C=A*B	D=A(1-B)	E	F=E/D	G	H	I	J=D+G-H-I	Maximum Permitted Daily Disposal Capacity (tpd-6) Expected Average Daily Disposal Tonnage (tpd-6) Remaining Disposal Capacity at Year's End (Million Tons)										K	L=J-K	
(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)
2014	70,170	60%	42,102	28,068	13,557	48%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2020	99,832	65%	64,891	34,941	6,778 50%	19%	572	1,083	14,567	19,863												
2021	100,295	73%	72,793	27,502	6,101	22%	577	1,073	14,466	12,539	3,600 2,579 9.2	240 115 2.4	3,500 845 4.5	6,616 6,153 51.6	3,000 381 9.8	49 13 0.03	10 0.89 0.04	3,400 1,355 3.0	11,000 7,830 52.2	350 293 4.3	26,837 137	--
2022	103,282	73%	75,821	27,461	5,423	20%	600	1,200	14,389	12,473	3,600 2,566 8.4	240 114 2.3	3,500 841 4.2	6,616 6,616 49.6	3,000 379 9.7	49 12 0.02	10 0.9 0.03	3,400 1,348 2.5	11,000 7,788 49.8	350 291 4.2	26,823 131	--
2023	104,393	74%	77,373	27,020	4,745	18%	600	1,200	14,153	12,268	3,600 2,523 7.7	240 112 2.3	3,500 827 4.0	6,616 6,616 47.5	3,000 373 9.6	49 12 0.02	10 0.9 0.03	3,400 1,326 2.1	11,000 7,660 47.4	350 286 4.1	26,780 125	(14,512)
2024	105,171	75%	78,663	26,509	4,067	15%	600	600	14,200	12,309	3,600 2,532 6.9	240 112 2.3	3,500 830 3.7	6,616 6,616 45.4	3,000 374 9.5	49 12 0.01	10 0.9 0.03	3,400 1,330 1.7	11,000 7,686 45.0	350 287 4.0	26,789 119	(14,480)
2025	105,760	75%	79,803	25,956	3,389 75%	13%	600	0	14,225	12,331	3,600 2,536 6.1	240 113 2.2	3,500 831 3.5	6,616 6,616 43.4	3,000 375 9.4	49 12 0.01	10 0.9 0.03	3,400 1,333 1.3	11,000 7,700 42.6	350 288 3.9	26,793 112	(14,462)
2026	106,342	75%	80,261	26,081	3,389	13%	600	0	14,292	12,389	3,600 2,548 5.3	240 113 2.2	3,500 835 3.2	6,616 3,411 42.3	3,000 377 9.3	49 12 0.01	10 0.9 0.03	3,400 1,339 0.9	11,000 7,736 40.2	350 289 3.8	26,806 107	(14,417)
2027	106,773	75%	80,600	26,172	3,389	13%	600	0	14,341	12,431	3,600 2,557 4.5	240 114 2.2	3,500 838 2.9	3,411 3,411 41.2	3,000 378 9.1	49 12 0.00	10 0.9 0.03	3,400 1,343 0.5	11,000 7,762 37.8	350 290 3.7	23,609 102	(11,178)
2028	107,203	76%	80,939	26,264	3,389	13%	600	0	14,390	12,474	3,600 2,566 3.7	240 114 2.1	3,500 841 2.7	3,411 3,411 40.2	3,000 379 9.0	49 12 CC	10 0.9 0.03	3,400 1,348 0.0	11,000 7,789 35.3	350 291 3.6	23,618 97	(11,144)
2029	107,634	76%	81,277	26,356	3,389	13%	600	0	14,440	12,517	3,600 2,575 2.9	240 114 2.1	3,500 844 2.4	3,411 3,411 39.1	3,000 381 8.9	49 10 0.03	10 0.9 (0.4)	3,400 1,353 7,816	11,000 292 32.9	350 292 3.5	23,615 91	(11,098)
2030	108,067	76%	81,618	26,449	3,389	13%	600	0	14,489	12,560	3,600 2,583 2.1	240 115 2.1	3,500 847 2.2	3,411 3,411 38.1	3,000 382 8.8	49 10 0.03	10 0.9 CC	3,400 1,357 30.5	11,000 7,843 23.1	350 293 3.4	23,624 87	(11,064)
2031	108,503	76%	81,961	26,542	3,389	13%	600	0	14,539	12,603	3,600 2,592 1.3	240 115 2.0	3,500 849 1.9	3,411 3,411 37.0	3,000 383 8.7	49 10 0.03	10 0.9 0.03	3,400 7,870 28.0	11,000 294 3.4	350 294 3.4	22,271 82	(9,668)
2032	108,943	76%	82,307	26,636	3,389	13%	600	0	14,589	12,646	3,600 2,601 0.4	240 116 2.0	3,500 852 1.6	3,411 3,411 35.9	3,000 385 8.5	49 10 0.03	10 0.9 0.03	3,400 7,897 25.5	11,000 295 3.3	350 295 3.3	22,275 77	(9,629)
2033	109,415	76%	82,679	26,736	3,389	13%	600	0	14,643	12,693	3,600 2,611 CC	240 116 1.9	3,500 856 1.4	3,411 3,411 34.9	3,000 386 8.4	49 10 0.03	10 0.9 0.03	3,400 7,926 23.1	11,000 296 3.2	350 296 3.2	22,280 73	(9,587)
2034	109,860	76%	83,029	26,831	3,389	13%	600	0	14,694	12,737		240 116 1.9	3,500 859 1.1	3,411 3,411 33.8	3,000 387 8.3	49 10 0.03	10 0.9 0.03	3,400 7,954 20.6	11,000 297 3.1	350 297 3.1	18,684 69	(5,947)
2035	110,310	76%	83,383	26,927	3,389	13%	600	0	14,745	12,782		240 117 1.9	3,500 862 0.8	3,411 3,411 32.7	3,000 389 8.2	49 10 0.03	10 0.9 0.03	3,400 7,981 18.1	11,000 298 3.0	350 298 3.0	18,689 65	(5,907)
2036	110,764	76%	83,740	27,024	3,389	13%	600	0	14,797	12,827		240 117 1.8	3,500 865 0.6	3,411 3,411 31.7	3,000 390 8.1	49 10 0.03	10 0.9 0.03	3,400 8,009 15.6	11,000 299 2.9	350 299 2.9	18,693 61	(5,866)

ASSUMPTIONS:

- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, July 2020.
- Total Solid Waste Diversion Rate for the years 2021-2035 reflects the impact of diverting the amount of additional organics from disposal.
- Total Solid Waste Diversion Tonnage for the years 2021-2035 is calculated to reflect the amount of additional organics being diverted in order to meet the organic waste disposal reduction target of Senate Bill 1383. (Source: Countywide Organic Waste Management Plan, 2021 Annual Report)
- Total Solid Waste Daily Disposal Demand for the years 2021-2035 is calculated to reflect the amount of additional organics being diverted in order to meet the organic waste disposal reduction targets of Senate Bill 1383. (Source: Countywide Organic Waste Management Plan, 2021 Annual Report)
- The amount of Organic Waste Disposal Tonnage is calculated using the organic waste disposal reduction targets of Senate Bill 1383. (Source: Countywide Organic Waste Management Plan, 2019 Annual Report)
- Daily Available Capacity from Transformation Facilities assume Southeast Resource Recovery Facility will cease its operation on June 2024.
- Total In-County Class III Landfill Available Capacity is calculated based on Maximum Permitted Daily Capacity (in blue text) for facilities without a restricted wasteshed or Expected Average Daily Tonnage for facilities with a restricted wasteshed (R).
Chiquita Canyon Landfill's average daily tonnage is based on the limits set on the new conditional use permit and therefore used to calculate the Total In-County Class III landfill Available Capacity.
- This scenario also considers the effect of Assembly Bill 1594 that removes diversion credit from green waste used as alternative daily cover (ADC) at landfills.
- Please note that the use of alternative technology (e.g., conversion, transformation) be electrical power, fuel, and sanitized compost will reduce the amount of solid waste disposed at landfills.

LEGEND:

- CC/CP - Closure due to exhausted capacity (CC) or permit expiration (CP)
E - Expansion may become effective
R - Restricted wasteshed

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APPENDIX E-3
SCENARIO IV - ALL SOLID WASTE MANAGEMENT OPTIONS CONSIDERED BECOME AVAILABLE

• Existing In-County Class III Landfills &Transformation Facilities								• Exports based on Existing Export Agreements								• Diversion Rate (75% by 2025) • Exports to Out-of-County Landfills (Including Potential Waste-by-Rail Capacity)								• Utilization of Additional Alternative Technology Capacity		
Year	Waste Generation Rate ¹	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Potential Available Capacity from Alternative Technology Facilities ²	Exports to Out-of-County Landfills	Class III Landfill Daily Disposal Demand	1	2	3	4	5	6	7	8	9	10	11	Potential Waste-by-Rail Capacity ⁴	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)						
								IN-COUNTY CLASS III LANDFILLS																		
								R	R			R	R			R		Total In-County Class III Landfill Available Disposal Capacity ³ (tpd-6) ----- Total In-County Class III Landfill Remaining Disposal Capacity (million tons)								
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbly Beach	San Clemente	Scholl	Sunshine City/County Combined	Whittier (Savage Canyon)									
								Maximum Permitted Daily Disposal Capacity (tpd-6) Expected Average Daily Disposal Tonnage (tpd-6) Remaining Disposal Capacity at Year's End (Million Tons)																		
	A	B	C=A(1-B)	D	E	G	H=C+D-E-F-G													I	J	K=H-I-J				
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)													(tpd-6)	(tpd-6)	(tpd-6)				
2021	100,295	65%	35,103	577	1,073	14,466	20,141	3,600 2,579 9.2	240 115 2.4	3,500 845 4.5	6,616 6,153 51.6	3,000 381 9.8	49 13 0.03	10 0.89 0.04	3,400 1,355 3.0	11,000 7,830 52.2	350 293 4.3	26,837	—	--						
2022	103,282	68%	33,567	600	1,200	13,529	19,437	3,600 2,489 8.5	240 111 2.3	3,500 816 4.3	6,616 6,616 48.1	3,000 368 9.7	49 12 0.02	10 0.86 0.03	3,400 1,308 2.5	11,000 7,556 49.9	350 282 4.2	26,745	—	--						
2023	104,393	70%	31,318	600	1,600	12,422	17,896	3,600 2,292 7.8	240 102 2.3	3,500 751 4.0	6,616 6,616 46.0	3,000 500 9.6	49 11 0.02	10 0.79 0.03	3,400 1,204 2.17	11,000 6,957 47.7	350 260 4.1	26,545	—	(8,649)						
2024	105,171	73%	28,922	600	1,600	11,421	16,501	3,600 2,113 7.1	240 94 2.3	3,500 692 3.8	6,616 6,616 44.0	3,000 600 9.4	49 10 0.02	10 0.73 0.03	3,400 1,110 1.8	11,000 6,415 45.7	350 240 4.0	26,363	—	(9,862)						
2025	105,760	75%	26,440	600	1,600	10,383	15,057	3,600 1,928 6.5	240 86 2.2	3,500 632 3.6	6,616 3,411 42.9	3,000 700 9.2	49 9 0.01	10 0.67 0.03	3,400 1,013 1.5	11,000 5,853 43.9	350 219 3.9	26,175	4,000	(15,119)						
2026	106,342	75%	26,586	600	1,600	10,444	15,141	3,600 1,939 5.9	240 86 2.2	3,500 635 3.4	6,616 3,411 41.9	3,000 800 8.9	49 9 0.01	10 0.67 0.03	3,400 1,019 1.2	11,000 5,886 42.0	350 220 3.9	26,186	4,000	(15,045)						
2027	106,773	75%	26,693	600	1,600	10,489	15,204	3,600 1,947 5.3	240 87 2.2	3,500 638 3.2	6,616 3,411 40.8	3,000 900 8.6	49 9 0.01	10 0.67 0.03	3,400 1,023 0.9	11,000 5,911 40.2	350 221 3.8	22,990	4,000	(11,785)						
2028	107,203	75%	26,801	600	1,600	10,534	15,267	3,600 1,955 4.7	240 87 2.2	3,500 641 3.0	6,616 3,411 39.7	3,000 1,000 8.3	49 9 CP	10 0.68 0.03	3,400 1,027 0.6	11,000 5,935 38.3	350 222 3.7	22,998	4,000	(11,731)						
2029	107,634	75%	26,908	600	1,600	10,579	15,329	3,600 1,963 4.1	240 87 2.1	3,500 643 2.8	6,616 3,411 38.7	3,000 1,100 8.0		10 0.68 0.03	3,400 1,031 0.2	11,000 5,959 36.5	350 223 3.7	22,996	4,000	(11,667)						
2030	108,067	75%	27,017	600	1,600	10,624	15,392	3,600 1,971 3.4	240 88 2.1	3,500 646 2.60	6,616 3,411 37.6	3,000 1,200 7.6		10 0.68 0.03	3,400 1,036 CC/CP	11,000 5,984 34.6	350 224 3.6	23,005	4,000	(11,612)						
2031	108,503	75%	27,126	600	1,600	10,670	15,456	3,600 1,979 2.8	240 88 2.1	3,500 649 2.40	6,616 3,411 36.5	3,000 1,300 7.2		10 0.68 0.03		11,000 6,009 32.7	350 225 3.5	21,973	4,000	(10,517)						
2032	108,943	75%	27,236	600	1,600	10,716	15,520	3,600 1,988 2.2	240 88 2.1	3,500 651 2.2	6,616 3,411 35.5	3,000 1,400 6.8		10 0.69 0.03		11,000 6,033 30.8	350 226 3.5	21,977	4,000	(10,457)						
2033	109,415	75%	27,354	600	1,600	10,765	15,589	3,600 1,996 1.6	240 89 2.0	3,500 654 2.0	6,616 3,411 34.4	3,000 1,500 6.3		10 0.69 0.03		11,000 6,060 29.0	350 227 3.4	21,981	4,000	(10,393)						
2034	109,860	75%	27,465	600	1,600	10,812	15,653	3,600 2,005 1.0	240 89 2.0	3,500 657 1.8	6,616 3,411 33.3	3,000 1,600 5.8		10 0.69 0.03		11,000 6,085 27.1	350 228 3.3	21,985	4,000	(10,332)						
2035	110,310	75%	27,578	600	1,600	10,859	15,719	3,600 2,013 0.3	240 89 2.0	3,500 660 1.6	6,616 3,411 32.3	3,000 1,700 5.3		10 0.70 0.03		11,000 6,111 25.2	350 228 3.2	21,989	4,000	(10,270)						
2036	110,764	75%	27,691	600	1,600	10,906	15,785	3,600 2,021 CC	240 90 1.9	3,500 662 1.4	6,616 3,411 31.2	3,000 1,800 4.7		10 0.70 0.03		11,000 6,136 23.2	350 229 3.2	21,993	4,000	(10,208)						

ASSUMPTIONS:

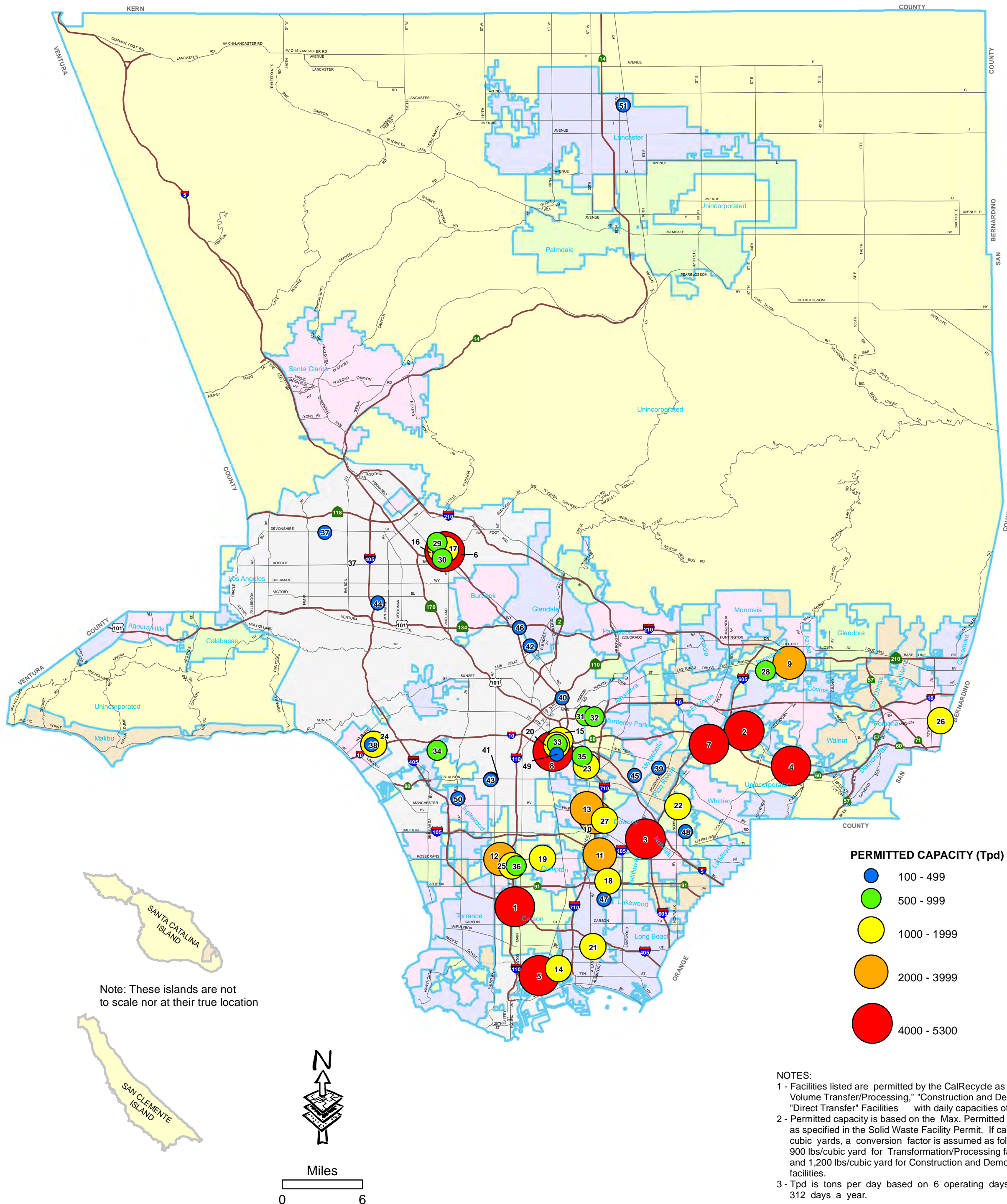
- Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, July 2021.
- Potential Daily Available Capacity from Alternative Technology Facilities assume Southeast Resource Recovery Facility (SERRF) will continue its operation or will get retrofitted to provide additional capacity and additional capacity will be available from potential EMSW facilities or other alternative technologies. This scenario also assumes Potential capacity from anaerobic digestion facility is considered part of diversion since anaerobic digestion process is within the statutory definition of composting which is considered as recycling.
- Total In-County Class III Landfill Available Capacity is calculated based on Maximum Permitted Daily Capacity (in blue text) for facilities without a restricted wasteshed or Expected Average Daily Tonnage for facilities with a restricted wasteshed (R). Chiquita Canyon Landfill's average daily tonnage is based on the limits set on the new conditional use permit and therefore used to calculate the Total In-County Class III landfill Available Capacity.
- The operation of the Mesquite Regional Landfill (MRL) and waste by rail system (WBR) is entirely dependent on the availability of in-county and near-county disposal capacity, diversion from landfills and the cost of disposal. When the MRL/WBR disposal capacity is needed and when the tipping fees make MRL/WBR economically viable, then the system may begin operation. However, for the purpose of the analysis, the scenario assumes: (1) an increase in exports to out-of-County landfills and (2) the waste-by-rail system is assumed to begin its operation in 2025.
- This scenario also considers the effect of Assembly Bill 1594 that removes diversion credit from green waste used as alternative daily cover (ADC) at landfills.
- Please note that the use of alternative technology (e.g., conversion, transformation) be electrical power, fuel, and sanitized compost will reduce the amount of solid waste disposed at landfills.

LEGEND:

- CC/CP - Closure due to exhausted capacity (CC) or permit expiration (CP)
E - Expansion may become effective
R - Restricted wasteshed

**APPENDIX E-4: LIST AND MAP OF LARGE VOLUME TRANSFER AND PROCESSING
FACILITIES IN LOS ANGELES COUNTY IN 2021**

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NO.	FACILITY NAME AND ADDRESS	PERMITTED CAPACITY (Tpd)
1	Carson Transfer Station & Materials Recovery Facility 321 West Francisco Street, Carson, 90745	5,300
2	Athens Services 14048 East Valley Boulevard, Industry, 91746	5,000 ♦
3	Downey Area Recycling & Transfer 9770 Washburn Road, Downey, 90241	5,000
4	Grand Central Recycling & Transfer Station 999 Hatcher Boulevard, Industry, 91748	5,000
5	Potential Industries 922 East E Street, Wilmington, 90744	5,000
6	Crown Recycling Services 9147 De Garmo Avenue, Sun Valley, 91352	4,600
7	Puente Hills Materials Recovery Facility 2808 Workman Mill Road, Whittier, 90601	4,400 ♦
8	Central LA Recycling & Transfer Station 2201 East Washington Boulevard, Los Angeles, 90034	4,025
9	Azusa Transfer & Materials Recovery Facility 1501 West Gladstone Street, Azusa, 91701	3,800
10	Construction and Demolition Recycling 9309 Rayo Avenue, South Gate, 90280	3,000 ▲
11	Paramount Resource Recycling Facility 7230 Petterson Lane, Paramount, 90723	2,450
12	American Waste Transfer Station 1449 West Rosecrans Avenue, Gardena, 90249	2,225
13	Waste Management South Gate Transfer Station 4489 Ardine Street, South Gate, 90280	2,000
14	Falcon Refuse Center, Inc. 3031 East "I" Street, Wilmington, 90744	1,850
15	Mission Road Recycling & Transfer Station 840 South Mission Road, Los Angeles, 90023	1,785
16	Bradley East Transfer Station 9227 Tujunga Avenue, Sun Valley, 91352	1,532
17	Athens Sun Valley Materials Recovery Facility 11121 Pendleton Street, Sun Valley, 91352	1,500
18	Bel-Art Waste Transfer Station 2501 East 68th Street, Long Beach, 90805	1,500
19	Compton Recycling & Transfer Station (Allied/BFI Waste Systems) 2509 West Rosecrans Avenue, Compton, 90059	1,500
20	Downtown Diversion (formerly Looney Bins) 2424 East Olympic Boulevard, Los Angeles, 90021	1,500
21	EDCO Recycling and Transfer 2755 California Avenue, Signal Hill, 90755	1,500 ▲
22	Universal Waste Systems 9010 Norwalk Boulevard, Santa Fe Springs, 90670	1,500
23	Innovative Waste Control 4133 Bandini Boulevard, Vernon, 90023	1,250
24	Southern Cal. Disposal Co. Recycling & Transfer Station 1908 Frank Street, Santa Monica, 90404	1,056
25	California Waste Services, LLC 621 West 152nd Street, Gardena, 90247	1,000 ▲
26	Pomona Valley Transfer Station 1371 East 9th Street, Pomona 91766	1,000
27	South Gate Transfer Station 9530 South Garfield Avenue, South Gate, 90280	1,000
28	Allan Company Material Recovery Facility 14618 Arrow Highway, Baldwin Park, 91706	750
29	East Valley Diversion (formerly Looney Bins) 11616 Sheldon Street, Sun Valley, 91352	750 ▲
30	Sun Valley Paper Stock Materials Recovery Facility & Transfer Station 8701 North San Fernando Road, Sun Valley, 91352	750
31	City Terrace Recycling Transfer Station 1511-1533 Fishburn Avenue, City Terrace, 90063	700 ♦
32	East Los Angeles Recycling and Transfer 1512 North Bonnie Beach Place, City Terrace, 90063	700 ♦
33	Angelus Western Paper Fibers, Inc. 2474 Porter Street, Los Angeles, 90021	650
34	Culver City Transfer/Recycling Station 9255 West Jefferson Boulevard, Culver City, 90232	500
35	CWS DTLA Material Recovery Facility and Transfer Station 3720 Noakes Street, Los Angeles, 90023	500
36	Waste Resource Recovery 357 West Compton Boulevard, Gardena, 90247	500 ♦
37	Granada Hills Street Maintenance District Yard 10210 Etiwanda Avenue, Northridge, 91325	450
38	City of Santa Monica Transfer Facility 2500 Michigan Avenue, Santa Monica, 90404	400
39	Pico Rivera Material Recovery Facility 8405 Loch Lomond Drive, Pico Rivera, 90660	327
40	East Street Maintenance District Yard 452 San Fernando Road, Los Angeles, 90065	315
41	Active Recycling MRF and Transfer Station 2000 W. Slauson Avenue, Los Angeles, 90047	250
42	City of Glendale MRF and Transfer Station 540 West Chevy Chase Drive, Glendale, 91204	250
43	Southwest Street Maintenance District Yard 5860 South Wilton Place, Los Angeles, 90047	225 ▲
44	Van Nuys Street Maintenance District Yard 15145 Oxnard Street, Van Nuys, 91411	225 ▲
45	Ace Diversion Inc. (formerly Commercial Waste Services, Inc.) 1530 and 1540 Date Street, Montebello, 90640	175 ▲
46	American Reclamation CDI Processing Facility 4560 Doran Street, Los Angeles, 90039	175
47	American Industrial Services, LLC 5626 Cherry Avenue, Long Beach, 90805	175
48	Lakeland Road Direct Transfer Facility 12739 Lakeland Road, Santa Fe Springs, 90670	150
49	Universal Waste Systems Inc. Direct Transfer Facility 2460 East 24th Street, Los Angeles, 90058	150
50	City of Inglewood Transfer Station 222 West Beach Avenue, Inglewood, 90302	100
51	City of Lancaster Maintenance Yard MVTs 46008 North 7th Street West, Lancaster, 93534	100

▲ - Construction and Demolition/Processing Facilities.

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**APPENDIX E-5: WASTE DISPOSAL BY JURISDICTION OF ORIGIN AT
PERMITTED MUNICIPAL SOLID WASTE FACILITIES IN SOUTHERN
CALIFORNIA IN 2021 (MAP)**

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WASTE DISPOSAL BY JURISDICTION OF ORIGIN AT PERMITTED MUNICIPAL SOLID WASTE FACILITIES IN SOUTHERN CALIFORNIA 2021

COUNTY	NAME	ANNUAL TONNAGE	AVE. TDP	REMAINING	
				CAPACITY (MIL. TONS)	LIFE (YEARS)
Imperial	Mesquite Regional Landfill (See Inset B)	N/O	20,000	600	100
Kern	H.M. Holloway Landfill (See Inset A)	489,343	1568	1.5	8
Los Angeles	Antelope Valley Landfill	804,700	2579	9.2	8
Los Angeles	Burbank Landfill	35,800	115	2.4	32
Los Angeles	Calabasas Landfill	263,700	845	4.5	8
Los Angeles	Chiquita Canyon Landfill	1,919,700	6153	52	26
Los Angeles	Lancaster Landfill	119,000	381	10	20
Los Angeles	Pebble Beach Landfill	3,900	13	0.026	7
Los Angeles	San Clemente Landfill	300	1	0.019	18
Los Angeles	Savage Canyon Landfill	91,300	293	4.3	34
Los Angeles	Scholl Canyon Landfill	422,800	1355	3	7
Los Angeles	Southeast Resource Recovery Facility	334,900	1073	N/A	N/A
Los Angeles	Sunshine Canyon Landfill	2,439,600	7819	52	16
Orange	Frank R. Bowerman Sanitary Landfill	2,229,444	7146	99	31
Orange	Olinda Alpha Sanitary Landfill	2,127,638	6819	11	5
Orange	Prima Deshecha Sanitary Landfill	626,672	2009	75	81
Riverside	El Sobrante Landfill	3,312,947	10618	134	37
San Bernardino	Mid-Valley Sanitary Landfill	1,081,231	3465	33	31
San Bernardino	San Timoteo Sanitary Landfill	338,586	1085	6	17
Ventura	Simi Valley Landfill & Recycling Center	1,334,979	4279	47	36

NOTES: Based on total tonnages disposed from January 1 thru December 31, 2021 (including imported waste). Annual tonnages rounded to nearest hundred. Remaining Capacity (Life) is an estimate based on data provided by facility operators as of December 31, 2021 and reduction of that capacity is based on reported annual disposal thereafter.
N/O - Not Operational.
N/A - Not Applicable or Available.

BREAKDOWN OF LOS ANGELES COUNTY JURISDICTIONS FOR OUT-OF-COUNTY DISPOSAL FACILITIES 2021

Simi Valley Landfill and Recycling Center (Ventura County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles Area Integrated Waste Management Authority	623,445	75.9%	
Culver City	41,078	5.1%	
Long Beach	19,672	2.4%	
Santa Fe Springs	19,568	2.3%	
Others	108,339	13.4%	
TOTAL	811,103	100%	

El Sobrante Landfill (Riverside County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles Area Integrated Waste Management Authority	449,692	37.6%	
Los Angeles-Unincorporated	168,030	13.9%	
Carson	85,511	7.1%	
Baldwin Park	53,784	4.5%	
Others	462,177	38.6%	
TOTAL	1,197,193	100%	

H.M. Holloway Landfill (Kern County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Carson	157,808	61.9%	
Los Angeles Area Integrated Waste Management Authority	51,658	20.3%	
Los Angeles-Unincorporated	30,861	12.6%	
Santa Clarita	14,902	5.8%	
TOTAL	255,048	100%	

Mid-Valley Sanitary Landfill (San Bernardino County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles Area Integrated Waste Management Authority	49,549	15.4%	
West Covina	48,881	10.0%	
Los Angeles-Unincorporated	47,629	9.8%	
Covina	26,439	8.3%	
Others	282,103	60.3%	
TOTAL	484,401	100%	

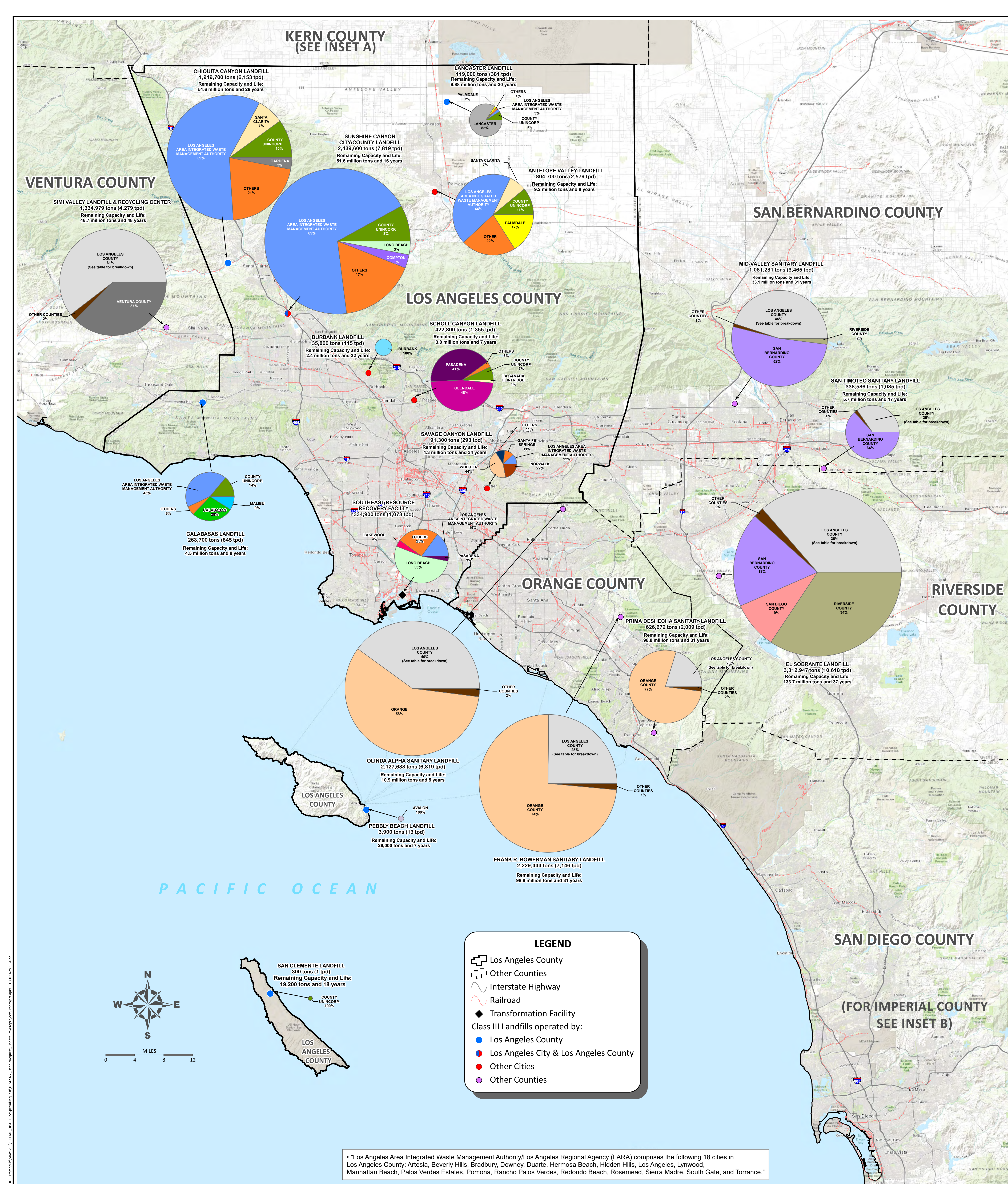
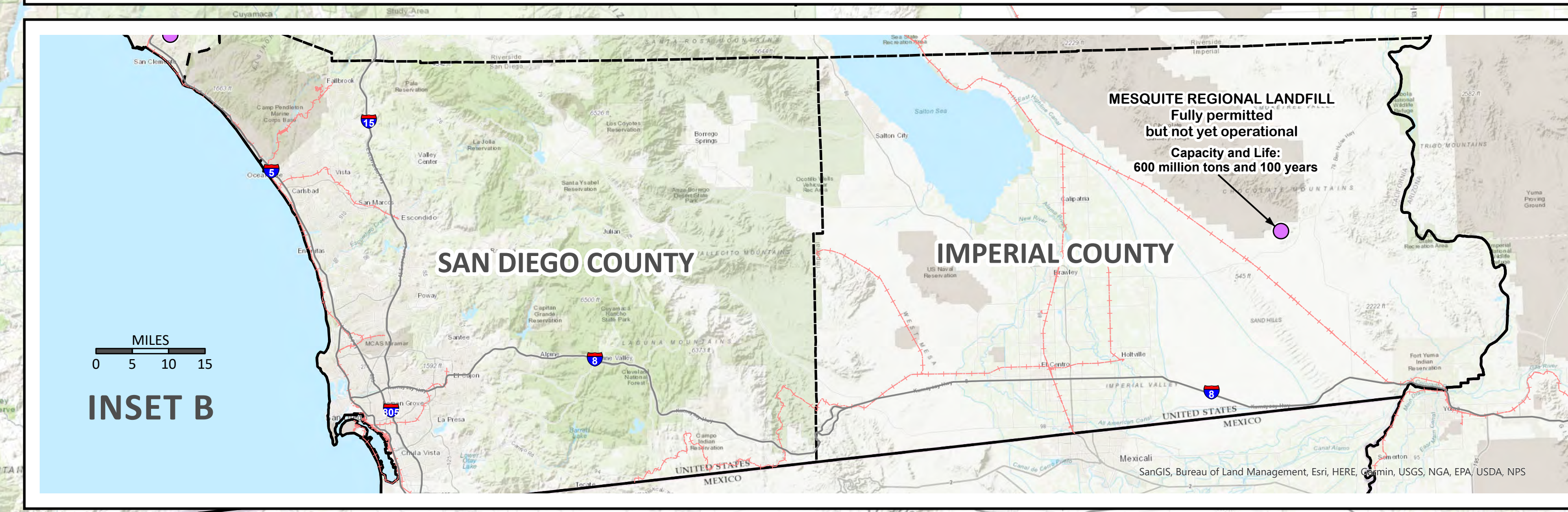
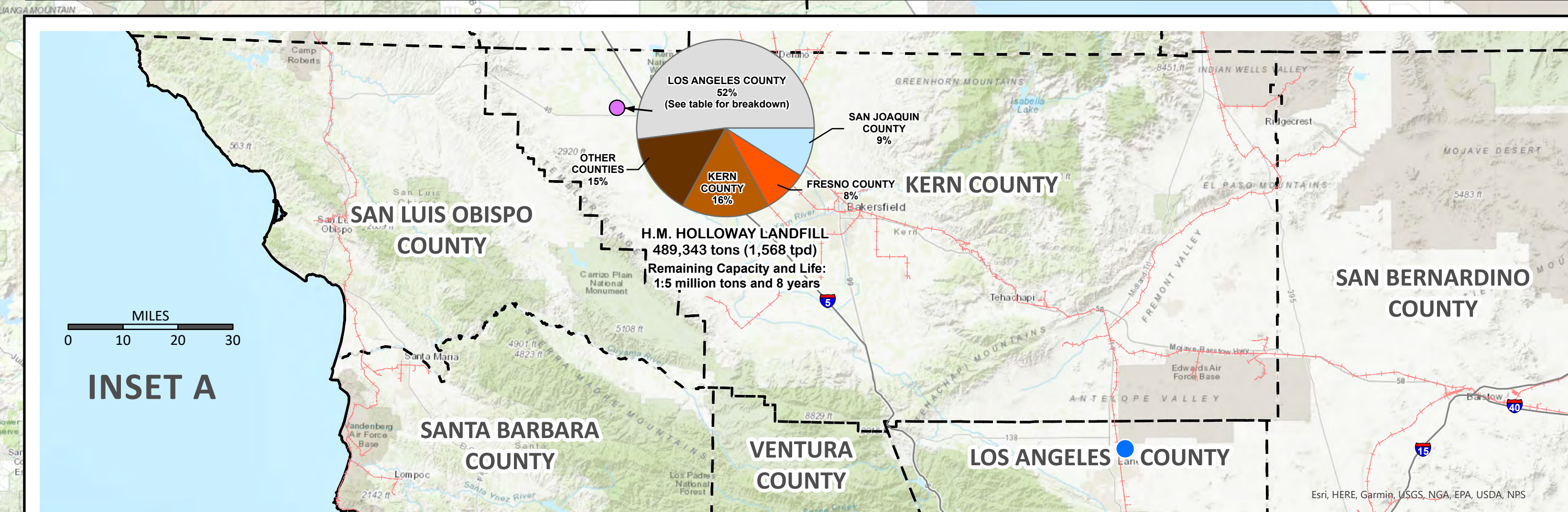
San Timoteo Sanitary Landfill (San Bernardino County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles-Unincorporated	14,731	12.5%	
Los Angeles Area Integrated Waste Management Authority	13,307	11.3%	
West Covina	10,591	9.0%	
Glendora	7,696	6.5%	
Others	70,284	59.8%	
TOTAL	117,528	100%	

Frank R. Bowerman Sanitary Landfill (Orange County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles Area Integrated Waste Management Authority	161,072	25.0%	
Long Beach	123,188	22.4%	
Los Angeles-Unincorporated	46,294	8.4%	
Belflower	40,545	7.4%	
Others	200,555	36.4%	
TOTAL	550,656	100%	

Prima Deshecha Sanitary Landfill (Orange County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles Area Integrated Waste Management Authority	101,643	80.4%	
Santa Fe Springs	13,782	10.9%	
Long Beach	6,215	4.9%	
Santa Monica	2,948	2.3%	
Others	1,894	1.5%	
TOTAL	126,483	100%	

Olinda Alpha Sanitary Landfill (Orange County)			
JURISDICTIONAL BREAKDOWN	DISPOSED (TONS)	PERCENT (%)	
Los Angeles Area Integrated Waste Management Authority	282,703	33.0%	
Paramount	54,247	6.4%	
Industry	48,550	5.5%	
Los Angeles-Unincorporated	43,261	5.1%	
Others	415,160	49.3%	
TOTAL	843,920	100%	

Source: California Department of Resources Recycling and Recovery Recycling and Disposal Reporting System (RDRS), export data reports and surveys received from facilities located out of the County, June 2021.



* Los Angeles Area Integrated Waste Management Authority/Los Angeles Regional Agency (LARA) comprises the following 18 cities in Los Angeles County: Artesia, Beverly Hills, Bradbury, Downey, Duarte, Hermosa Beach, Hidden Hills, Los Angeles, Lynwood, Manhattan Beach, Palos Verdes Estates, Pomona, Rancho Palos Verdes, Redondo Beach, Rosemead, Sierra Madre, South Gate, and Torrance.