County of Los Angeles
Countywide Integrated Waste Management Plan
2012 Annual Report

County of Los Angeles
Department of Public Works
August 2013

Countywide Summary Plan &
Countywide Siting Element

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

GAIL FARBER, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

August 1, 2013

IN REPLY PLEASE
REFER TO FILE: EP-5

Ms. Caroll Mortensen
Director
Department of Resources
Recycling and Recovery
Cal/EPA Building
1001 I Street
Sacramento, CA 95812-4025

Dear Ms. Mortensen:

TRANSMITTAL OF THE 2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN
SUMMARY PLAN AND SITING ELEMENT ASSESSMENTS

Enclosed for your review and approval is the 2012 Annual Report for the Summary Plan and Siting Element of the Los Angeles County Countywide Integrated Waste Management Plan pursuant to Section 41821 of the Public Resources Code.

The 2012 Annual Report includes discussion on the status of the revised Siting Element which is anticipated to be disseminated for public comment during 2014 and submitted to CalRecycle in 2016. Also included in the 2012 Annual Report are permit changes, in-depth assessments of the County's disposal capacity needs, detailed updates on the remaining permitted in-County disposal capacity, and the County's strategies for maintaining adequate disposal capacity through 2027.

Through the analyses of nine scenarios, the 2012 Annual Report demonstrates that the County would meet the disposal capacity requirements of Assembly Bill 939 through a multi-pronged approach which includes successfully permitting and developing proposed in-County landfill expansions, utilizing available or planned out-of-County disposal capacity, developing necessary infrastructure to facilitate exportation of waste to out-of-County landfills, and developing conversion and other alternative technologies. Additionally, by continuing to enhance diversion programs and increasing the Countywide diversion rate, jurisdictions in Los Angeles County may further ensure adequate disposal capacity is available to serve the needs of the residents and businesses through the planning period.

If you have any questions regarding this Annual Report, please contact me at (626) 458-3500 or Mr. Bahman Hajialiakbar at (626) 458-3502, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

PAT PROANO
Assistant Deputy Director
Environmental Programs Division

JB:dy
P:\Sec\2012 AR Cover Letter

Enc.

cc: California Department of Resources Recycling and Recovery Office of Local Assistance for Southern California
Each City Mayor in the County of Los Angeles
Each City Recycling Coordinator in the County of Los Angeles
Each Member of the Los Angeles County Integrated Waste Management Committee/Integrated Waste Management Task Force
Each Member of the Los Angeles County Regional Planning Commission

TABLE OF CONTENTS

ACRONYMS AND GLOSSARY OF TERMS

ADC	Alternative Daily Cover
CSE	Countywide Siting Element (Siting Element)
CUP	Conditional Use Permit
DRS	Disposal Reporting System
EIR	Environmental Impact Report
FOC	Finding of Conformance
IDEFO	Inert Debris Engineered Fill Operation
LARA	Los Angeles Regional Agency
LEA	Local Enforcement Agency
Public Works	County of Los Angeles Department of Public Works
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
TPW	Tons per Week
TPY	Tons per Year
UCLA	University of California, Los Angeles
CalRecycle	California Department of Resources Recycling and Recovery
WTE	Waste-to-Energy

WHAT IS THE ANNUAL REPORT?

The California Integrated Waste Management Act of 1989, also known as Assembly Bill 939 (AB 939), mandates jurisdictions to meet a diversion goal of 50 percent by year 2000 and thereafter. In addition, each county is required to prepare and administer a Countywide Integrated Waste Management Plan. This plan is comprised of the County's and the cities' solid waste reduction planning documents, an Integrated Waste Management Summary Plan (Summary Plan), and a Countywide Siting Element (CSE). In order to assess jurisdiction's compliance with AB 939, the Disposal Reporting System was established to measure the amount of disposal from each jurisdiction and determine if it has met the goals.

The County of Los Angeles Department of Public Works (Public Works) is responsible for preparing and administering the Summary Plan and the CSE. These documents were approved by the County, a majority of the cities within the County containing a majority of the cities' population, the County Board of Supervisors, 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 mandated state 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, for a 15-year planning period, the county and the cities within would meet their long-term disposal capacity needs to safely handle solid waste generated in the county that cannot be reduced, recycled, or composted.

The purpose of the Annual Report is to provide an annual update to the Los Angeles County Countywide Integrated Waste Management Plan. Public Works prepares the Annual Report to summarize the changes that have taken place since the approval of the Summary Plan and the CSE by the jurisdictions and CalRecycle. It consists of Section D: Summary Plan Assessment and Section E: Siting Element Assessment. The other sections pertaining to individual jurisdictions, namely, Sections A, B, C, and H, are included in a separate annual report from each jurisdiction.

SECTION D: SUMMARY PLAN ASSESSMENT (FORM)

Check each item as completed, providing attachments as applicable.

[✓] **D-1** Does the Summary Plan need to be revised? For example, have there been any significant changes in the financing of Countywide or regional programs and/or facilities, in demographics, in solid waste management infrastructure, or in planning documents; i.e., Source Reduction and Recycling Element (SRRE), Household Hazardous Waste Element, or Non-Disposal Facility Element from any of the jurisdictions within the County?

[ ] Yes. Discuss below. Include a time schedule for revising the Summary Plan.

[✓] No.

Discussion

Please see **Summary Plan** (Page 3) and **Regional Solid Waste Issues** (Page 4) for a discussion of the Summary Plan.

SUMMARY PLAN

The Summary Plan, approved by CalRecycle in 1999, was prepared and administered by the County to describe the steps to be taken by jurisdictions, acting independently and in concert, to achieve the 50 percent waste diversion mandate. Since then, a number of changes have occurred, such as regional solid waste management, demographics, and public awareness of environmental stewardship. At the same time, the County and cities continue to enhance and expand their waste reduction efforts in response to changing conditions.

Jurisdictions in the County of Los Angeles continue to implement and enhance the waste reduction, recycling, special waste, and public education programs identified in their SRREs, Household Hazardous Waste Element, and Non-Disposal Facility Element (as updated through their Annual Reports). These efforts, together with Countywide and regional programs implemented by the County and the cities, acting in concert or independently, have achieved significant, measurable results. As such, CalRecycle approved the County's second Five-Year Review Report in August 2010, which concluded that an update to the Summary Plan is 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 markets for recyclable materials, development of alternative technology facilities, diversion credit for such technology, and the State's 75-percent recycling goal.

REGIONAL SOLID WASTE ISSUES

Disposal Trend During Economic Recession

Although the economy has shown signs of improvement, the amount of waste that residents and businesses generated as well as disposed of in Los Angeles County continued to remain relatively low.

Figure 1: Disposal Trend

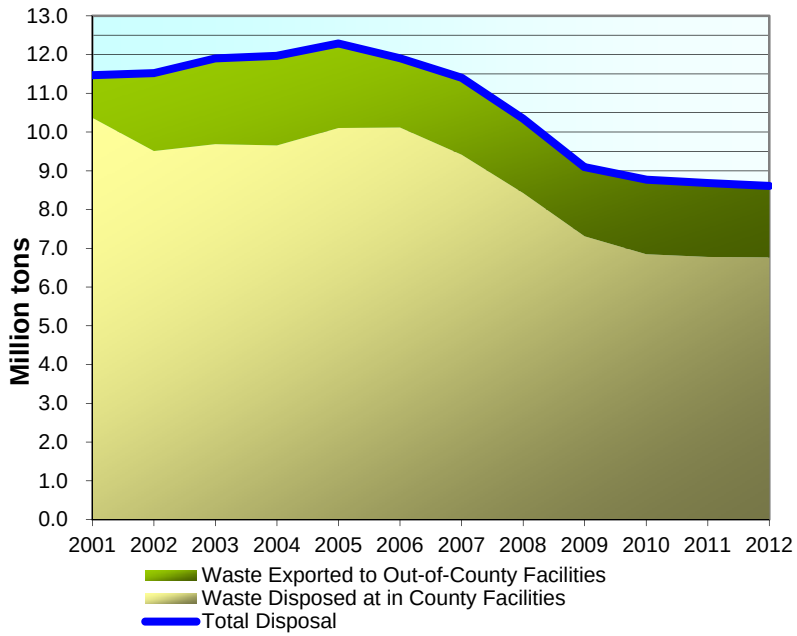
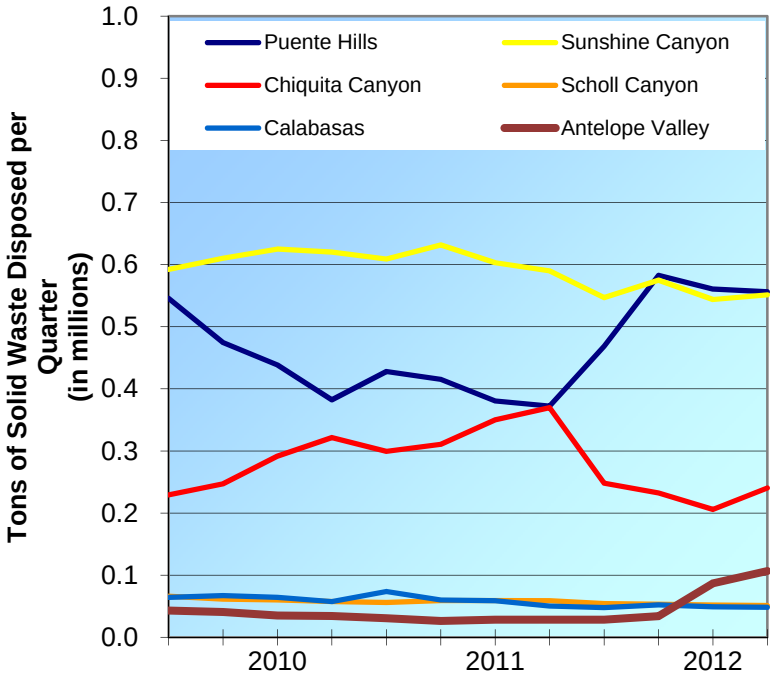


Figure 1 shows a downward disposal trend from 2005 to 2010 and plateaus thereafter. **Figure 2** shows disposal trends of selected facilities within the County.

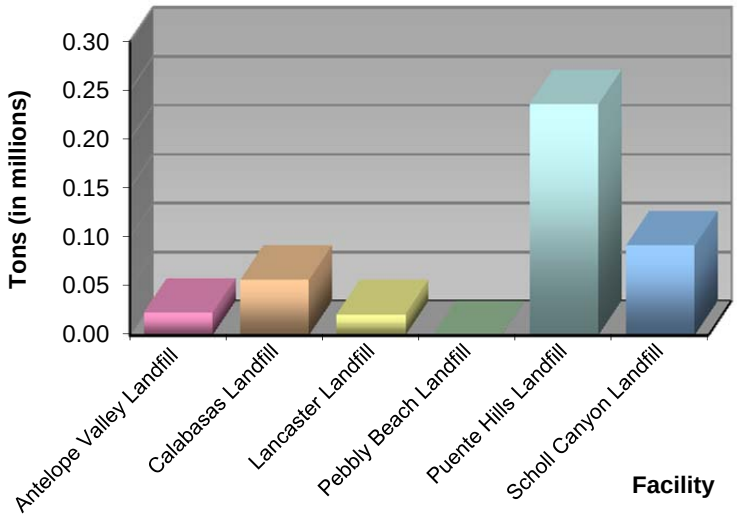
Figure 2: Disposal Trend at Major Landfills



Green Waste as Alternative Daily Cover

As the closure of Puente Hills Landfill in 2013 draws near, jurisdictions that currently depend on the facility to recycle their green waste as alternative daily cover (ADC) must secure alternative sites to recycle or compost their green waste in order to continue to meet their diversion goals. As shown in **Figure 3**, of the 428,923tons of green waste ADC used at in-County landfills, Puente Hills Landfill alone accepted 55 percent, or 235,692 tons, which is equivalent to an average of 755 tons per day (tpd)

Figure 3: Use of Green Waste as ADC in 2012



Cities, the County, and the waste management industry are working towards developing alternatives for the management of greenwaste in anticipation of the closure of Puente Hills Landfill. There are many challenges associated with green waste management, such as inadequate green waste management capacity in the County due to difficulties encountered in permitting and developing composting facilities, limited markets for compost made from green waste, and increasing costs for long-distance transportation to out-of-County facilities and operations.

Projected Shortfall of Available Permitted Disposal Capacity

As detailed in the **Strategy for Maintaining Adequate Disposal Capacity** section (Page 28), a shortfall of permitted solid waste disposal capacity in the County is anticipated under current conditions. To meet their disposal needs during the planning period, jurisdictions in the County must further enhance their waste reduction and diversion efforts, continue to encourage development of alternative technologies such as waste-to-energy and conversion technology facilities, support the use of waste-by-rail system to Mesquite Regional Landfill, as well as expand solid waste processing facilities in areas where processing capacity is inadequate if found to be environmentally sound and technically feasible.

Los Angeles County's Conversion Technology Efforts

Los Angeles County continues to support alternatives to landfills through our Conversion Technology Program. Focusing on processes that convert non-recyclable materials into renewable energy, bio-fuels, and other useful products, this innovative program emphasizes local project development and statewide outreach and education.

Over the past year, the County has worked with stakeholders on a state and local level to identify the barriers to project development in California and develop solutions to overcoming those barriers.

In September 2012, the County Board of Supervisors directed the County to work with the Chief Executive Office to pursue legislation that would establish a more clearly defined permitting pathway for conversion technologies in state statute. This has led the County to conduct several educational visits with Sacramento legislators and state agencies such as Air Resources Board, Energy Commission, and Natural Resources Agency.

Currently the County is partnering with the California State Association of Counties (CSAC) to sponsor Senate Bill 804, conversion technology legislation introduced by Senator Ricardo Lara (D-33), with the goal of establishing clear definitions in statute that promote the highest and best use of resources while supporting the state's key environmental goals. If passed, the bill would assist in meeting California's 75 percent waste reduction goal by assessing how the tens of millions of tons of materials that cannot be reduced, recycled or composted can better be handled. Additionally, the bill would assist in meeting the goals of the state's Bioenergy Action Plan, which has identified municipal solid waste as a substantially underutilized resource for biomass feedstock.

County Engineers visit Waste Management's Reclaimable Anaerobic Composter Demonstration in Lancaster, CA

The County continues to chair the Conversion Technology Working Group hosted by CSAC as well as the Los Angeles County Integrated Waste Management Task Force's Alternative Technology Advisory Subcommittee. These groups monitor the development of projects in California, such as the CR&R

Incorporated anaerobic digester project in Perris, CA, which is closer to the final stages of design and construction. As a part of its partnership with CR&R, the County assisted the project in earning a $4.5 million grant from the Energy Commission under the State's Alternative and Renewable Fuel, Vehicle Technology, Clean Air, and Carbon Reduction Program (commonly known as AB 118). Other companies and jurisdictions have approached the County about potential projects at approximately 2 dozen locations throughout the County, and a number of projects are being considered or moving forward at several of these sites.

City of Los Angeles' Alternative Technology Efforts

In May 2011, the City of Los Angeles (City), Board of Public Works (Board) authorized the Bureau of Sanitation (Bureau) to enter into contract negotiations with Green Conversion Systems (GCS) for development of the first commercial scale alternative technology facility. GCS proposed to build a 1,100 ton per day facility that would include an upfront mechanical pre-processing system to separate and recover recyclables materials, followed by an advanced thermal recycling system to produce energy and recover by-products.

Additionally, in December 2012, the City's Board authorized the Bureau to enter into contract negotiations with Urbaser-Keppel Seghers for development of an integrated scale alternative technology facility. The proposed facility could include a combination of one or more of the following technologies: upfront mechanical pre-processing system, anaerobic digestion, composting, advanced thermal recycling, and/or gasification, and would include the flexibility to negotiate for increased tonnage commitments. The Bureau is currently in contract negotiations with GCS and Urbaser-Keppel Seghers for the development of a commercial and emerging alternative technology facility, respectively.

California's 75-Percent "Recycling" Goal

On October 6, 2011, Governor Brown signed Assembly Bill 341 establishing a State policy goal that no less than 75-percent of solid waste generated be source reduced, recycled, or composted by 2020, and requiring CalRecycle to provide a report to the Legislature that recommends strategies to achieve the policy goal by January 1, 2014. The bill also mandates local jurisdictions to implement commercial recycling by July 1, 2012. Subsequently, CalRecycle began holding workshops to receive feedback from stakeholders and released for public comment a draft report entitled, *California's New Goal: 75 Percent Recycling*.

Consequently, the County and the Los Angeles County Integrated Waste Management Task Force (Task Force) provided their comments and recommendations on the 75-Percent Recycling Goal to CalRecycle. The recommendations include to: (1) revise the hierarchy to reflect the best management practices that puts the highest emphasis on product redesign and producer responsibility, followed in order of preference by waste prevention, reuse, recycling, composting, conversion technologies, transformation, and lastly, landfill disposal if no other management option is reasonably feasible; (2) conduct a comprehensive, peer-

reviewed life-cycle analysis of each solid waste management option; (3) continue diversion credit for green waste when used as alternate daily cover at landfills due to lack of markets for compost and composting infrastructure; (4) support local and state policies that would promote the development of technologies as an alternative to landfilling, such as conversion technologies; and (5) pursue strategies that would promote and provide for the use of recyclables at in-state facilities only. In addition, comments were made on definitions of some terms including the definition of "Recycling" which is inconsistent with the California Public Resources Code definition.

Jurisdictions in Los Angeles County will still be working with CalRecycle during the stakeholder process to assist in developing the strategies with an emphasis on State policies and activities that supplement and enhance existing statewide and local recycling efforts; sound, science-based recommendations; minimal potential impacts of the proposal on cities' and County's AB 939 compliance; and continued diversion credit for green waste as an alternate daily cover at landfills.

AB 32 – Reducing Greenhouse Gas Emissions in California

The California Air Resources Board (CARB) is currently developing their 2013 Scoping Plan that will provide an update on how the State is meeting our greenhouse gas (GHG) emission reduction targets specified in AB 32. In 2008, CARB developed the original Scoping Plan with only a small portion dedicated to solid waste and recycling. The single solid waste measure with an associated measurable goal was methane reduction at landfills. The 2013 Scoping Plan will include a more comprehensive discussion of the waste management sector, including measures relating to waste reduction and recycling, anaerobic digestion and composting, biomass conversion, landfills, thermal waste conversion, and procurement of recyclable products. The waste management sector GHG target is tied to State's AB 341 goal. CalRecycle estimates that if the 75 percent waste reduction, recycling, and composting goal are met by 2020 it will result in a 20-30 Million Metric Ton of Carbon Dioxide-Equivalent (MMTCO2e) reduction. The County and Task Force have both submitted comments to CalRecycle and CARB. The comments re-emphasized concerns made regarding the 75-percent goal, as well as highlighted the need for the Scoping Plan update to include the connection between sustainable feedstock suppliers, bioenergy generations and distributions, and end user markets in transportation and water sectors.

Markets for Recovered Materials

The County strongly recommends CalRecycle to continue its efforts to address the need to develop sufficient statewide markets and take a leadership role in the expansion of markets for recycled products. These efforts are in line with the statewide goal of 75 percent "recycling."

State recycling mandates have long created an extensive supply of diverted materials, but have not fully addressed the demand side of the "recycling equation." The result has been a substantial dependence on foreign markets for our recyclable

materials, where there are substantially inadequate environmental controls for processing these materials.

While collection of recyclable materials is an important element of our integrated solid waste management system and is imperative in reducing our dependence on landfills, true success of recycling efforts can only be realized with a strong market demand for recovered materials.

Extended Producer Responsibility

To facilitate a comprehensive solid waste management strategy, the County strongly supports statewide legislation, regulations, and/or policies that establish product stewardship, also known as extended producer responsibility (EPR). EPR is an adopted strategic policy that shifts the responsibility of product waste management from local governments to producers and manufacturers. EPR emphasizes product designs that promote environmental sustainability and minimize the negative impact on human health and the environment, as well as considers the cost of treatment and disposal in the total cost of the product.

Effective July 2012, AB 1343 requires paint manufacturers to take responsibility for the end-of-life management of postconsumer paints sold in California. This state law is the first significant extended producer responsibility bill in California and necessitates the paint industry to take responsibility of the end-of-life management of their product by designing and managing a collection system for postconsumer paint that would potentially save local governments millions of dollars in taxpayer funds each year. As such, AB 1343 is meant to reduce the end-of-life management costs for paint and mitigate the environmental impacts of its disposal.

On October 19, 2012, PaintCare, the stewardship organization, designated by paint manufacturers, implemented a program with a chain of about 300 local paint retail stores to take back postconsumer paint from the public. Currently, there are over 60 retail locations spread throughout Los Angeles County. PaintCare is also working with various existing Household Hazardous Waste programs to add to its collection infrastructure. Currently, the County of Los Angeles is evaluating options for participating in PaintCare's collection infrastructure.

SECTION E: SITING ELEMENT ASSESSMENT (FORM)

Check each item as completed, providing attachments as applicable.

[✓] ***E-1*** *Describe the changes in remaining disposal capacity facility description, pursuant to the California Code of Regulations (CCR) Section 18755.5, since the Los Angeles County Countywide Siting Element (Siting Element) adoption.*

[✓] Attach the remaining capacity description (label as Appendix E-1) that includes the following information for each facility:

a. *Name of the facility and name of facility owner and operator*
b. *Facility permit number, permit expiration date, date of last permit review, and an estimate of remaining site life*
c. *The maximum permitted daily and yearly rates of waste disposal in tons and cubic yards*
d. *The permitted types of wastes*
e. *The expected land use for the site and if site closure is expected to occur within the 15-year planning period*

Discussion

Please see **Solid Waste Disposal Facilities** (Page 14) for a summary of the changes in the remaining disposal capacity facility. Detailed description of each facility is provided in **Appendix E-1**.

[✓] ***E-2*** *Has the County or regional agency maintained or provided a strategy that provides for the maintenance of 15 years of disposal capacity?*

[✓] *Yes. Attach a table (label as Appendix E-2) with the total disposal capacity the County or regional agency has for each year for the next 15 years in tons and cubic yards.*

[ ] *No. Attach a table (label as Appendix E-2) with the total disposal capacity the County or regional agency has for each year for the next 15 years in tons and cubic yards.*

Discussion

Please see **Strategy for Maintaining Adequate Disposal Capacity** (Page 28) for a discussion on how the County will maintain 15 years of disposal capacity. Detailed data is provided in **Appendix E-2, E-3,** and **E-4**.

[✓] ***E-3*** *Examine the adequacy of the Siting Element. Has the County or regional agency maintained 15 years of disposal capacity, as described in E-2 above.*

[ ] *Yes. (No revision necessary.)*

[✓] *Yes. However, revision will be needed to add new disposal sites and/or strategies. Attach a discussion of the new sites or strategies and include a time schedule for revising the Siting Element and label as Appendix E-4.*

[ ] *No. Attach a discussion of how additional capacity will be provided, and include a time schedule for revising the Siting Element. Label as Appendix E-4*

Discussion

The Siting Element is currently being revised to remove two sites previously identified as potential landfill sites and add new strategies, including expansions of some in-County Class III landfills in order to increase landfill capacities within the County, updates to some of the goals and policies to enhance the comprehensiveness of the County's solid waste management system, fostering the development of alternatives to landfilling such as alternative technology facilities and promoting the development of infrastructure to facilitate exportation of waste to Mesquite Regional Landfill in Imperial County. Please see **Strategy for Maintaining Adequate Disposal Capacity** (Page 28) for a detailed discussion. Data is provided in **Appendices E-1** through **E-4**. **Appendices E-5 and E-6** show locations of current transfer and process facilities and disposal sites within the County.

SITING ELEMENT REVISION

AB 939, as amended, 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 Los Angeles County Countywide Siting Element (CSE) was approved by the majority of the cities in the County containing a majority of the cities' population, the Board of Supervisors in January 1998, and by CalRecycle on June 24, 1998.

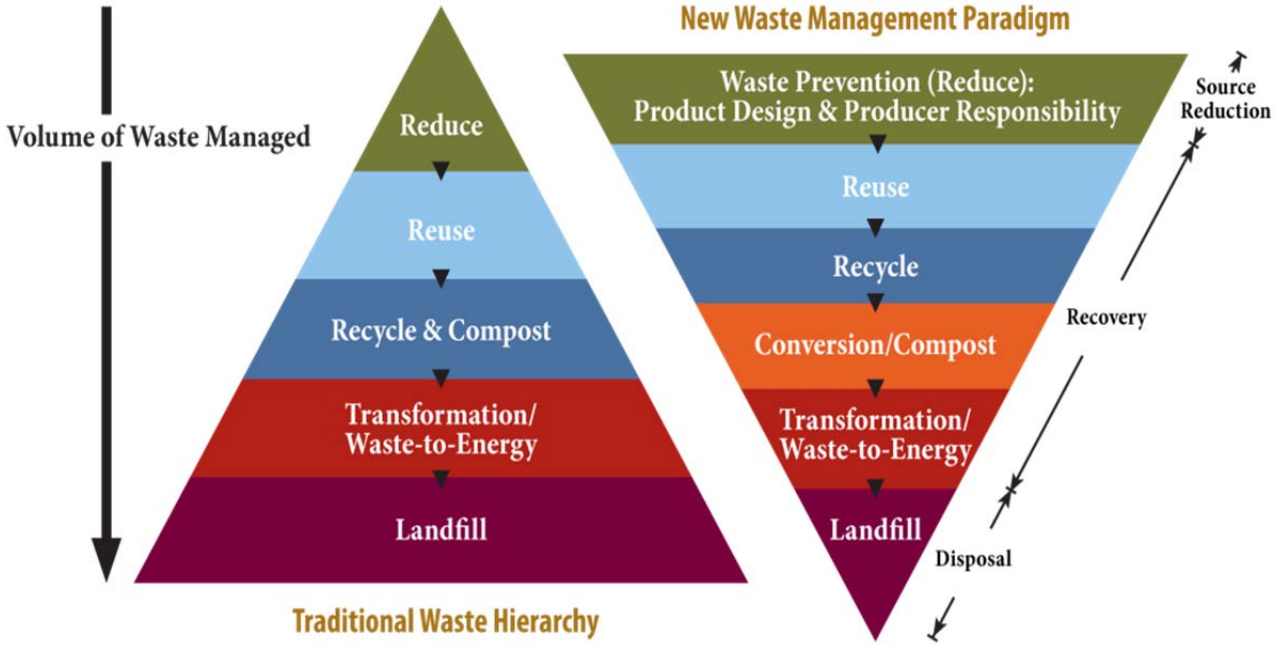
The CSE establishes goals and policies for the County to maintain adequate permitted disposal capacity for a 15-year planning period. To provide the needed disposal capacity, the CSE offers strategies and establishes siting criteria to aid in evaluating the feasibility of potential sites for development of solid waste management and disposal facilities. Out-of-County landfills potentially available to accept waste generated in the County are also identified. Additionally, the CSE includes goals and policies to facilitate the use of out-of-County/remote landfills and foster the development of alternatives to landfill disposal, such as conversion technologies on a Countywide basis.

In August 2010, CalRecycle approved the County's second Five-Year Review Report, which provides a comprehensive analysis on the adequacy of the Summary Plan and Siting Element. The Five-Year Review Report confirmed that an update to the Summary Plan is not necessary; however, there is a need to revise the CSE.

The revised CSE, which would cover the 15-year planning period beginning 2010 through 2025, is anticipated to reflect the following significant changes compared to the current version:

- Removal of Elsmere and Blind Canyons as potential new landfill sites in accordance with the Board of Supervisors' decision on September 30, 2003 to remove those sites from the list of potential new landfill sites;

- Expansion of several in-County Class III landfills in order to increase landfill capacities within the County;



- Updates to the goals and policies to be consistent with a new solid waste management paradigm to enhance the comprehensiveness of the Los Angeles County's solid waste management system and incorporate current and upcoming solid waste management processes and technologies;

- Promotes the development of alternatives to landfilling such as conversion technologies, 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.

On November 15, 2012, the Los Angeles County Integrated Waste Management Task Force (Task Force) concurred with the draft revised CSE.

The draft revised CSE and its environmental document will undergo a review and approval process in compliance with numerous statutory and regulatory requirements. This includes CEQA review, and review and approval by jurisdictions in Los Angeles County, the County Board of Supervisors, and CalRecycle.

The goal is to complete the entire revision process, disseminate the document for public comment, and submit the final draft CSE and the environmental document to CalRecycle by 2016.

SOLID WASTE DISPOSAL FACILITIES

Expanded Facilities

Lancaster Landfill and Recycling Center

The Lancaster Landfill and Recycling Center is owned and operated by Waste Management of California, Inc. On December 14, 2011, Los Angeles County Regional Planning Commission approved a new CUP to extend landfilling operations by 30 years by increasing the maximum daily disposal capacity from 1,700 tpd to 3,000 tpd , and the acceptance of inert debris and beneficial use materials up to 2,100 tpd effective August 1, 2012. Refer to **Appendix E-1** for more detailed information.

Permit Changes

Lancaster Landfill and Recycling Center

A Finding of Conformance (FOC) was granted for Lancaster Landfill and Recycling Center by the Task Force on March 21, 2013. A new solid waste facility permit (SWFP) was issued by the Local Enforcement Agency and concurred by CalRecycle on February 19, 2013. Refer to **Appendix E-1** for more detailed information.

Proposed Facility Expansions

Chiquita Canyon Landfill Expansion

On December 5, 2008, Republic Services merged with Allied Waste Industries, Inc. As a condition of the merger, Republic Services was required to divest the Chiquita Canyon Landfill. Republic Services and Waste Connections signed a definitive agreement providing for the sale of the Chiquita Canyon Landfill to Waste Connections, Inc. on February 6, 2009. In 2011, Waste Connections, Inc. re-submitted an application to request an expansion of the waste footprint and an increase in the allowable daily tonnage. The County of Los Angeles Department of Regional Planning (Regional Planning) prepared a Notice of Preparation (NOP) for the proposed Chiquita Canyon Landfill Master Plan Revision and circulated it for public comments from November 28, 2011 to February 13, 2012. In September 2012, Waste Connections, Inc. submitted its updated Master Plan Revision to the Regional Planning, which provided a more detailed description of the proposed landfill expansion project. The proposed expansion project includes lateral extension of the existing waste footprint from 257 acres to 400 acres, increase in maximum elevation from 1430 feet to 1,573 feet, and increase in maximum daily disposal capacity from 6,000 tpd to 12,000 tpd. A draft Environmental Impact Report is currently being prepared and is expected to be released for public comment. Refer to **Appendix E-1** for more detailed information.

Scholl Canyon Landfill Expansion

The Scholl Canyon Landfill is located north of the Ventura Freeway in the City of Glendale. The Landfill is operated by the Sanitation Districts of Los Angeles County (Sanitation Districts) pursuant to a Joint Powers Agreement between the Sanitation Districts, City of Glendale, and the County. The Landfill is operating under a Use Variance (Case No. 6668-U) granted on November 27, 1978. The City of Glendale is proposing an expansion consisting of two variations: vertical expansion only, providing approximately five

million tons of additional capacity (Variation 1) and vertical and horizontal expansion, providing approximately six million tons of additional capacity (Variation 2). Under both variations, the landfill would continue to be permitted to receive 3,400 tons per day of non-hazardous solid waste, and existing resource and material recovery programs will continue to be implemented. On December 4, 2007, the Sanitation Districts initiated the CEQA process on behalf of the City of Glendale for the landfill expansion and circulated the Notice of Preparation/Initial Study. Refer to **Appendix E-1** for more detailed information.

Whittier (Savage Canyon) Landfill Expansion

The Whittier Landfill is owned and operated by the City of Whittier. The City Public Works Department is proposing to increase the site capacity from approximately 8.1 million cubic yards, as identified in the current SWFP issued on February 28, 1995, to 12.5 million cubic yards. The City is in the process of obtaining a solid waste facility permit from the Los Angeles County Department of Public Health, the State-approving Local Enforcement Agency. Refer to **Appendix E-1** for more detailed information.

Others

Eagle Mountain Landfill

On May 22, 2013, the Board of Directors of Sanitation District No. 2 took action to cease negotiations for Eagle Mountain Landfill. The site is currently owned by Ontario-based Mine Reclamation Corporation. The 4,654-acre landfill would have taken up to 20,000 tons of waste per day brought by rail from communities in Los Angeles County.

Mesquite Regional Landfill

The Sanitation Districts owns and operates the Mesquite Regional Landfill, located in Imperial County, and anticipates receiving a portion of the County's waste by truck or rail. Refer to **Out-of-County Disposal Facilities** (Page 42) and **Appendix E-1** for more detailed information.

Puente Hills Landfill

The Puente Hills Landfill is owned and operated by the Sanitation Districts. On January 23, 2002, the Sanitation Districts' Board of Directors certified the Final Environmental Impact Report (EIR) for the expansion project. The County of Los Angeles Regional Planning Commission granted a new CUP on December 18, 2002 and extended the life of the landfill to October 31, 2013. The Task Force granted a FOC on February 20, 2003. CalRecycle approved the project on July 11, 2003, and issued a revised SWFP. Operation of the expanded landfill began on November 1, 2003. The expansion increased the life of the landfill by ten years at a maximum daily disposal capacity of 13,200 tpd. Refer to **Appendix E-1** for more detailed information.

DISPOSAL ANALYSIS FOR 2012

Solid Waste Disposal

In 2012, total solid waste disposed at Class III landfills and transformation facilities located in and out of the County was 8.7 million tons. In addition, the amount of inert waste disposed at permitted inert waste landfills totaled 89,142 tons. The following is a breakdown of disposal amounts at each type of disposal facility.

Annual Disposal Tonnage for 2012

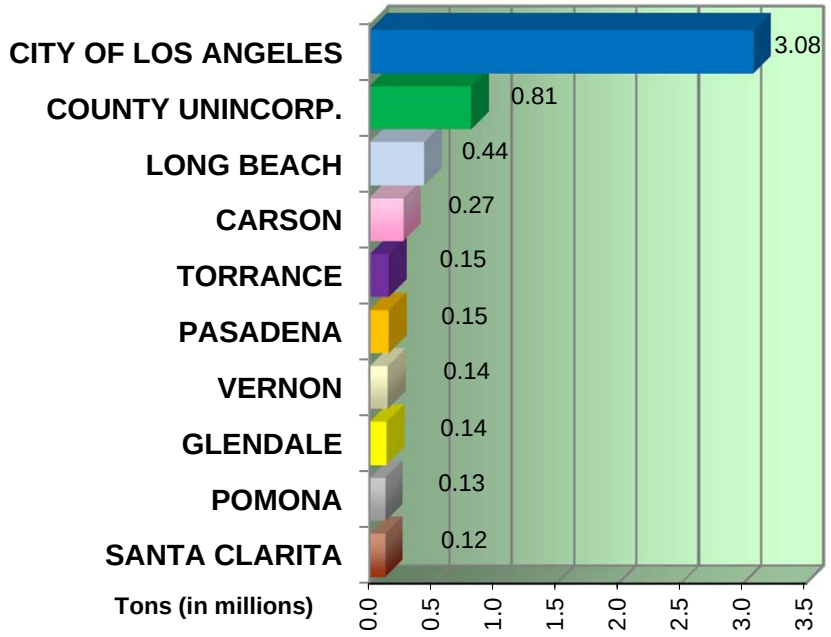
In-County Class III Landfills	6,304,060	tons
Transformation Facilities	569,539	tons
Exports to Out-of-County Landfills	1,844,175	tons
Subtotal Solid Waste Disposed	8,717,773	tons
Permitted Inert Waste Landfills	89,142	tons
Grand Total Disposed	8,806,915	tons

Average Daily Disposal Rate for 2012 (Based on Six Operating Days)

In-County Class III Landfills	20,205	tpd
Transformation Facilities	1825	tpd
Exports to Out-of-County Landfills	5,911	tpd
Subtotal Solid Waste Disposed	27,942	tpd
Permitted Inert Waste Landfills	286	tpd
Grand Total Disposed	28,227	tpd

Figure 4 below shows the top 10 jurisdictions that disposed solid waste, including inert waste disposed at permitted inert waste landfills, in and outside of the County in 2012.

Figure 4: Top 10 Jurisdiction Disposal Quantities in 2012



Waste Generation

For the purpose of long-term disposal capacity planning, a countywide diversion rate of 60 percent was assumed for 2012. Based on the 8.6 million tons of disposal and the 60 percent diversion rate, the County generated approximately 21.5 million tons or an average of 58,987 tpd. Note that the estimates do not include inert waste disposed at permitted inert waste landfills.

SB 1016

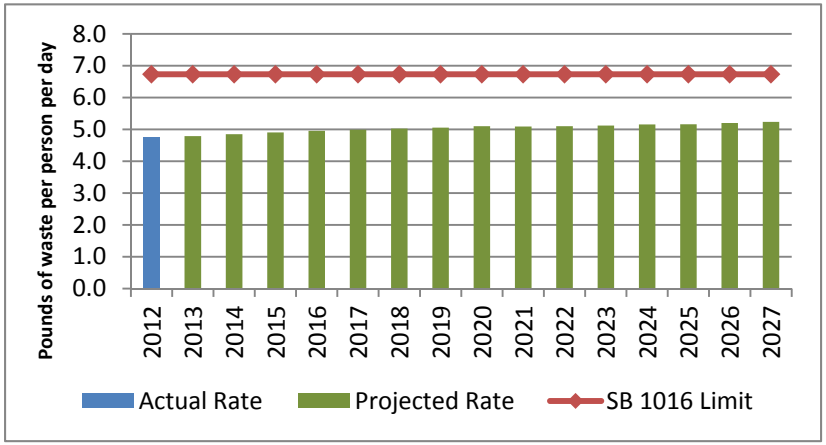
With the implementation of Senate Bill 1016, CalRecycle no longer calculates diversion rate based on actual disposal and estimated annual generation using CalRecycle's Adjustment Methodology. As a result, Countywide diversion rates are no longer calculated. The last diversion rates approved by CalRecycle were for 2006. Considering each jurisdiction's approved diversion rate, a countywide diversion rate for 2006 is estimated at 58 percent.

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

Using projections of population, employment, and real taxable sales from the University of California, Los Angeles (UCLA), it is estimated that in order to meet the per capita disposal requirements, jurisdictions in Los Angeles County would need to continue their diversion programs as well as other disposal reduction strategies.

Figure 5 shows the County meeting the AB 939 diversion mandate through the year 2027 provided that the County as a whole maintains a 60-percent diversion rate. Refer to **Appendix E-3** for detailed data.

Figure 5: Projection of Countywide Disposal Equivalent



Waste Disposal at In-County Facilities

In addition to waste generated within Los Angeles County, Class III landfills, permitted inert waste landfills, and transformation facilities in the County also received 141,145tons, or 452 tpd, of waste from jurisdictions outside the County in 2012. **Figure 6** shows the total amount of solid waste disposed at each Class III landfill and transformation facility, including waste generated from within and outside the County. Refer to **Appendix E-2 Table 1** for detailed data.

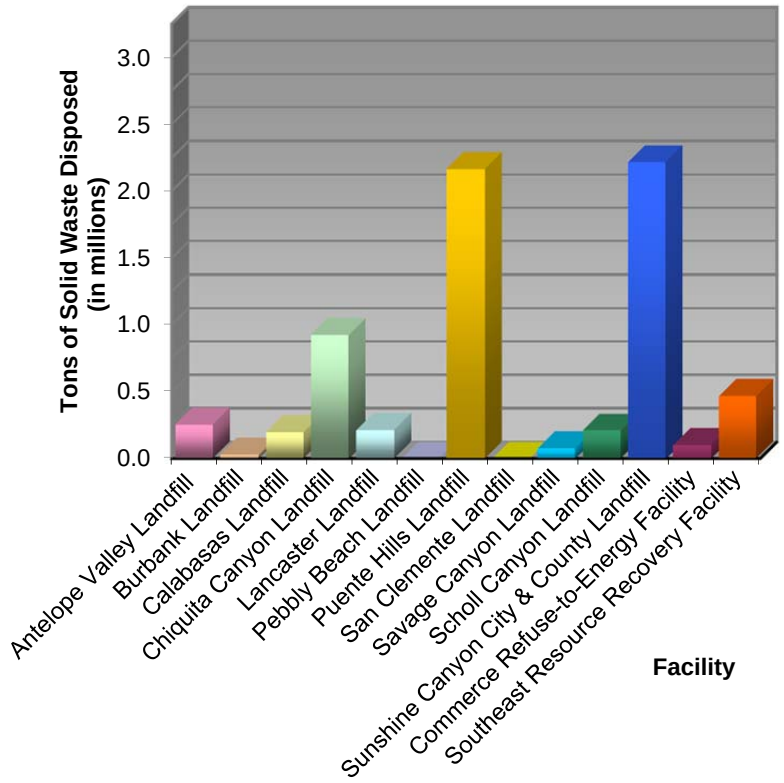
2012 Waste Generation and Disposal Quantities for Municipal Solid Waste

A	B	C	D	E	F
In-County Disposal		Out-of County Class III Landfills (Exports)	Total Disposal*	Estimated Countywide Diversion Rate	Calculated 2012 Solid Waste Generation*
Class III Landfills	Transformation Facilities				
TONS	TONS	TONS	TONS	%	TONS
6,239,143	528,765	1,844,175	8,612,083	**60**	21,530,206

* Data from permitted inert waste landfills and imports from Out-of-County landfills 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 60 percent is assumed.
Column F:	Column D ÷ 40% (disposal percentage). This estimate is used to project the County's Class III landfill and transformation disposal needs through the year 2027.

Figure 6: Disposal Quantities by Facility in 2012



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 is landfilled or transformed into energy. If transformed, the residual ash is turned into ashcrete and used for winter deck and other beneficial uses at the Puente Hills Landfill. **Figure 7** quantitatively illustrates these activities. The various types of materials recycled or beneficially used on-site at Class III landfills are further broken down on **Figure 8**.

Figure 7: Solid Waste at In-County Disposal Facilities (tons)

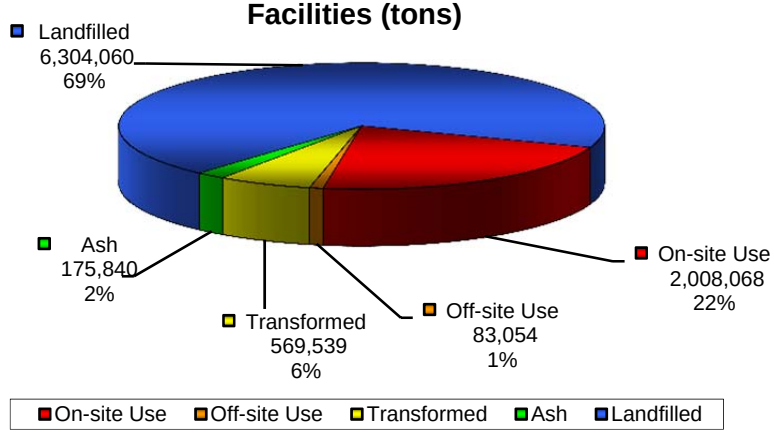
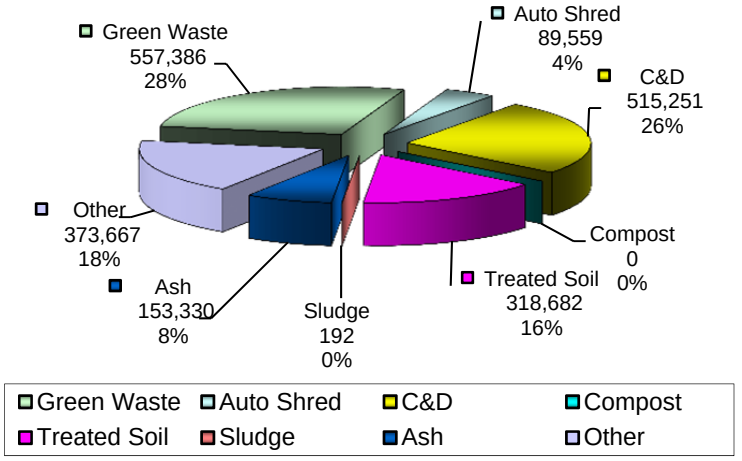


Figure 8: On-site Beneficial Use (tons)



Figures 9 through **21** show the disposal at each in-County facility broken down by jurisdiction. Refer to **Appendix E-5** for a map that shows the location of each facility.

Figure 9: Antelope Valley Landfill
252,000 tons

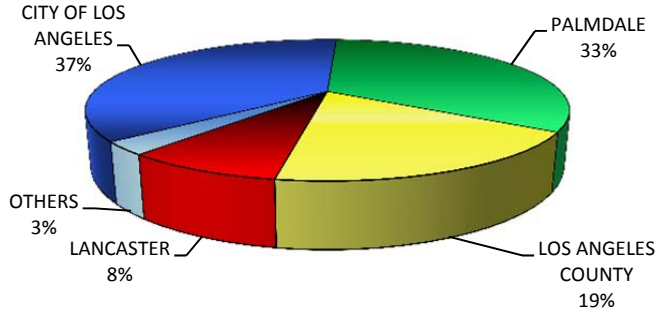


Figure 10: Burbank Landfill
33,000 tons

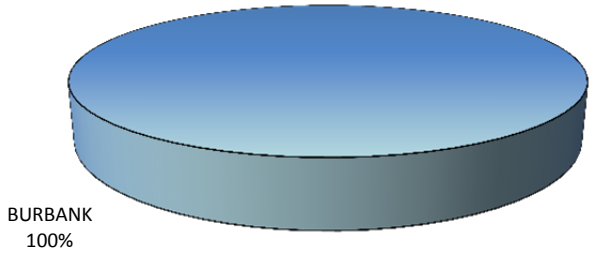


Figure 11: Calabasas Landfill
187,000 tons

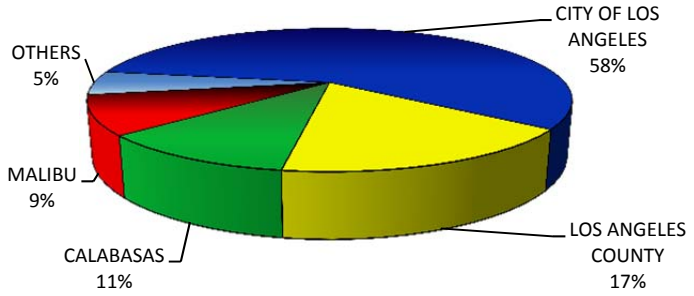


Figure 12: Chiquita Canyon Landfill
906,000 tons

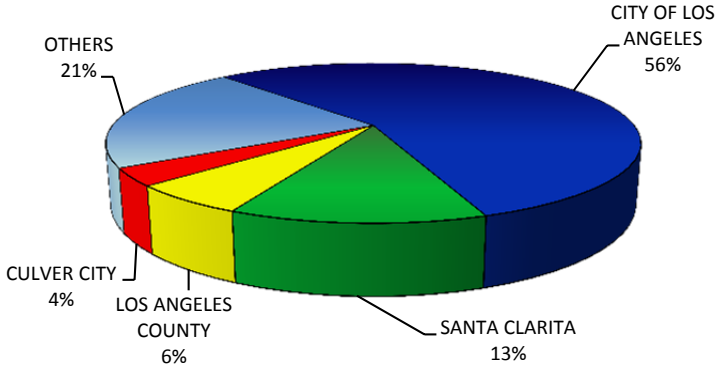


Figure 13: Commerce Refuse-to-Energy Facility
96,000 tons

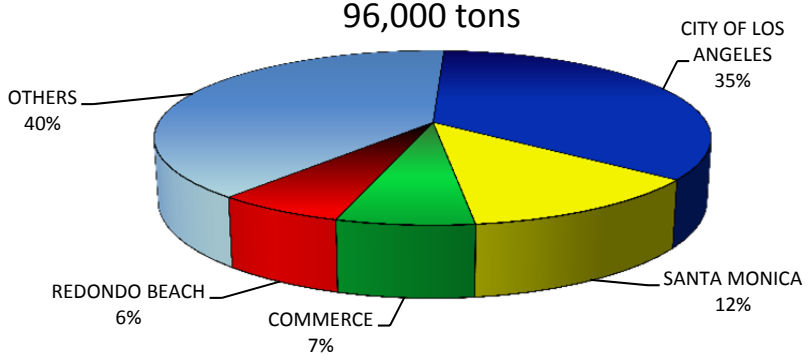


Figure 14: Lancaster Landfill
208, 000 tons

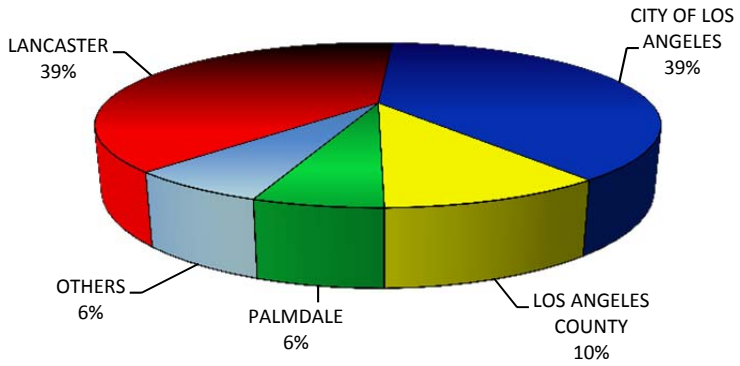


Figure 15: Pebbly Beach Landfill
3,000 tons

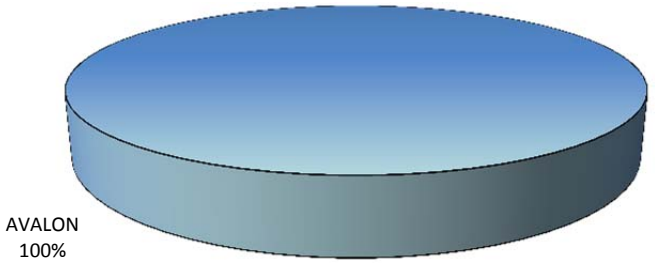


Figure 16: Puente Hills Landfill
2,144,000 tons

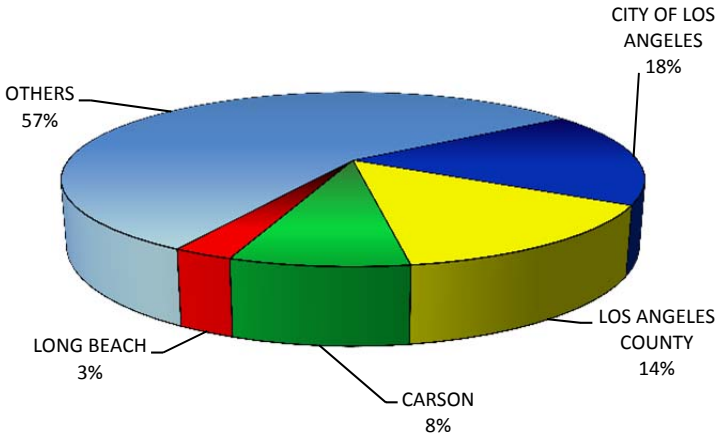


Figure 17: San Clemente Landfill
400 tons

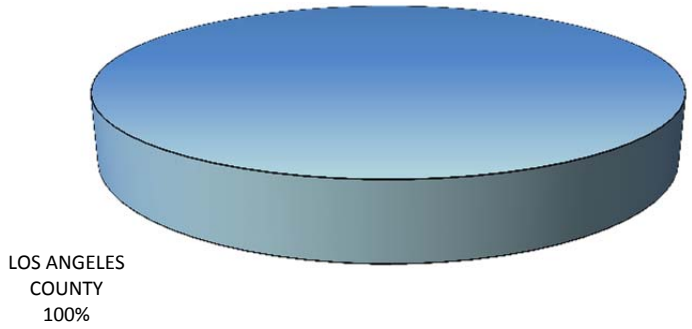


Figure 18: Whittier (Savage Canyon) Landfill
78,000 tons

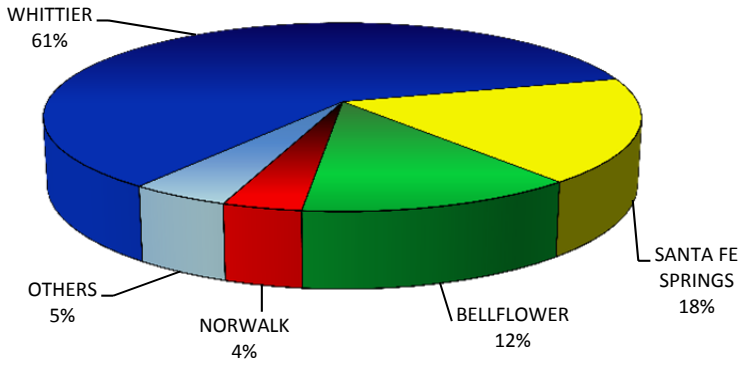


Figure 19: Scholl Canyon Landfill
211,000 tons

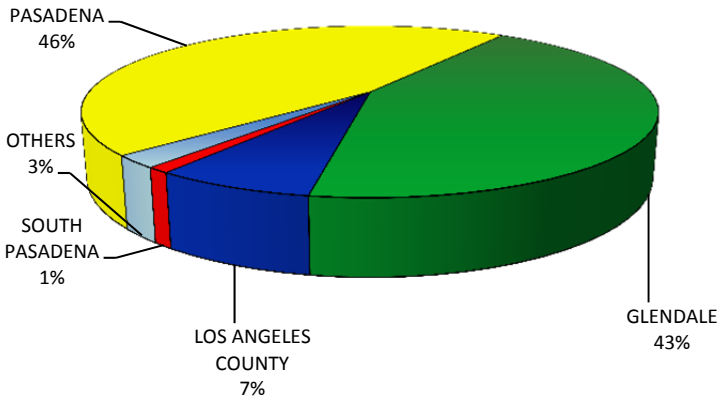


Figure 20: Southeast Resource Recovery Facility
432,000 tons

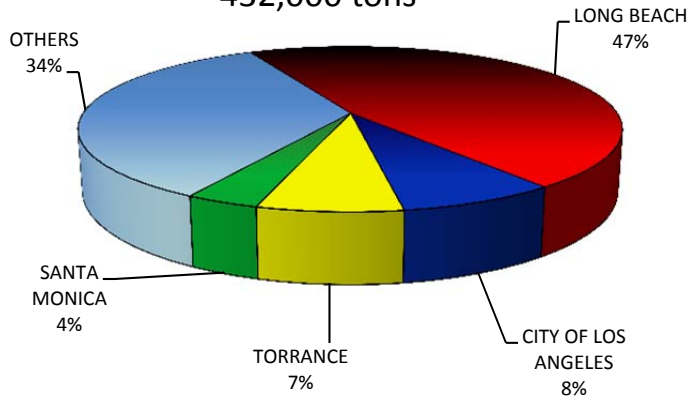
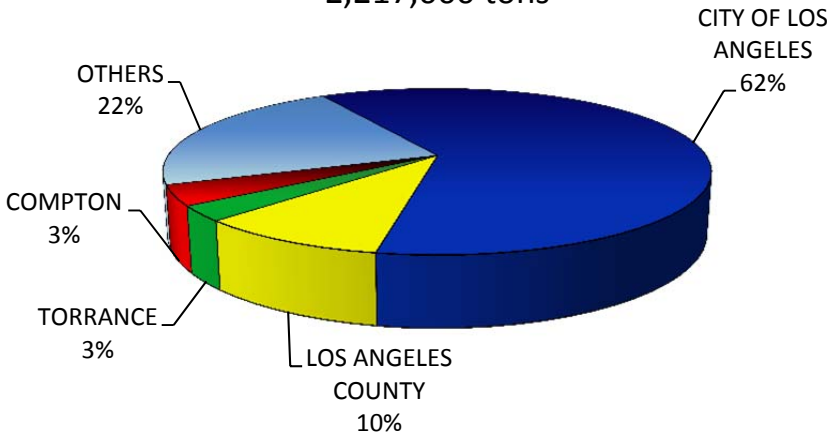


Figure 21: Sunshine Canyon City/County Landfill
2,217,000 tons



Remaining Disposal Capacity at End of 2012

Transformation Facilities

Presently, two transformation facilities operate in the County with a combined average daily tonnage of 2,069 tpd, which is equivalent to 645,600 tpy.

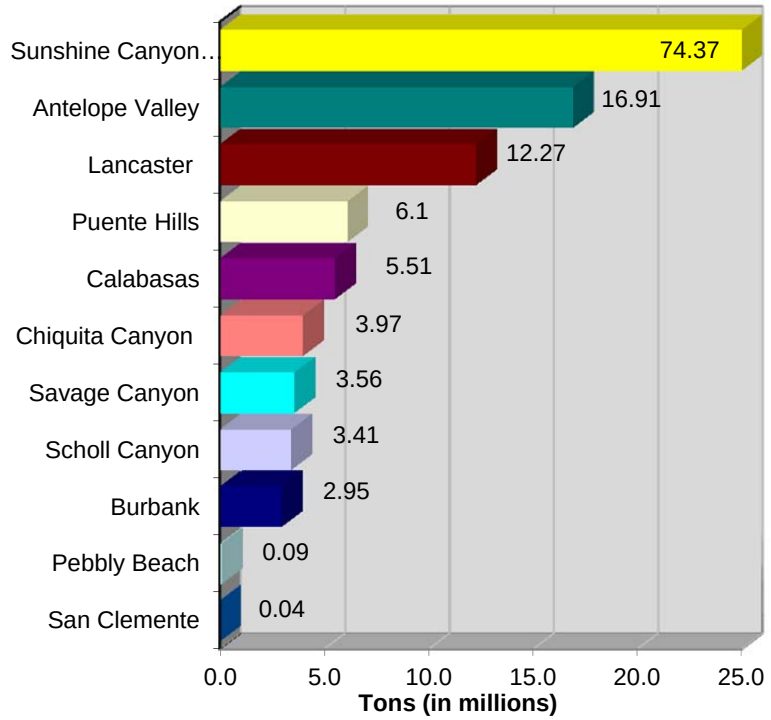
It is expected that these two facilities will continue to operate at their current permitted daily capacity during the planning period of 2012 through 2027. The owners and operators of these facilities indicate that there are no plans to increase the permitted daily capacity.

Class III Landfills

Public Works conducted a survey requesting landfill operators in the County to provide updates to their estimated remaining disposal capacity. 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 129.2 million tons as of December 31, 2012.

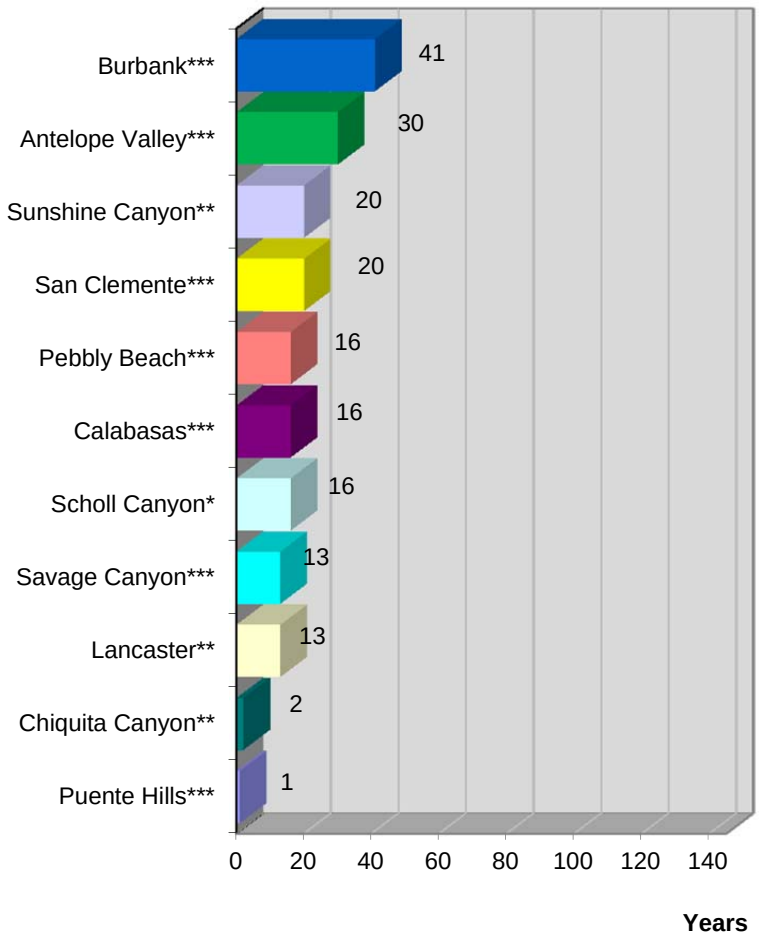
The figure below shows a breakdown of each landfill's remaining capacity in million tons as of December 31, 2012. Refer to **Appendix E-2 Table 1** for detailed data.

Figure 24: Class III Landfill Remaining Capacity



When each landfill's average daily disposal and closure date, if specified in its permits, are accounted for, its lifespan is as shown in the following figure.

Figure 25: Class III Landfill Remaining Life



* Landfill remaining life based on 2012 average daily disposal

** Landfill remaining life based on maximum permitted capacity as of December 31, 2012

*** Landfill remaining life based on land use/solid waste facility permit restrictions as of December 31, 2012.

Permitted Inert Waste Landfill

There is one permitted Inert Waste Landfill that has a full solid waste facility permit (Azusa Land Reclamation) in Los Angeles County in 2012. The remaining capacity of this landfill is estimated at 64.1 million tons or 52.1 million cubic yards. Refer to **Appendix E-2 Table 1** for detailed data. Given the remaining permitted capacity and at the average disposal rate of 286 tpd in 2012, this capacity would be exhausted in 718 years.

Inert Debris Engineered Fill Operations

There are other Inert Waste Landfill operations which are under the State permit tier of Enforcement Agency Notification. These facilities are classified as Inert Debris Engineered Fill Operations (IDEFO). In 2006, CalRecycle reclassified Nu-Way Arrow Reclamation, Inc., Nu-Way Live Oak Reclamation, Inc. and Calmat Reliance Pit #2, and Peck Gravel Road Pit to an IDEFO. These sites and other IDEFOs handled nearly 1.9 million tons or approximately 1.6 million cubic yards of material in the County **(Refer to Appendix E-2 Table 2).**

Transfer and Processing Capacity

There are 44 permitted Large Volume Transfer/Processing and Direct Transfer Facilities, which are permitted to receive 100 tons of waste or more per operating day, and numerous facilities of smaller volume operating in the County. As local waste disposal capacity options diminish in the County, transfer and processing facilities operators are expected to ship waste to out-of-County landfills via truck or rail transport. Refer to **Appendix E-5** for a list of Large Volume Transfer and Processing facilities in the County.

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 in the County unincorporated areas through the land use permit process. The process incorporates a Waste Plan Conformance Agreement which requires a landfill operator to implement specified waste diversion and recycling programs as well as other activities on- and off-site to assist jurisdictions in the County in achieving the mandates of AB 939. In addition, the Agreement contains provisions to encourage and assist residents in properly disposing of their wastes. These programs or activities may include:

Conservation of Capacity

- Maximize available fill capacity 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 wastes for landscaping and erosion, weed, and fire break control;
- Salvage construction and demolition wastes for road construction, erosion control, and other uses;

Establishment of:

- Materials recovery operations or facilities;
- Used oil collection center;
- Drop-off or buy-back recycling center;

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; and
- Research and development of alternative technologies;

Active Class III landfills that have a Waste Plan Conformance Agreement with the County include Chiquita Canyon, Lancaster, Puente Hills, and Sunshine Canyon City/County Landfills. Together, these landfills handle over 85 percent of in-County Class III waste. It should be noted that due to the dynamic nature of solid waste management in the County, the provisions of the Waste Plan Conformance Agreement for each landfill are different and tailored to meet the specific needs of the communities serviced by the landfill.

As the economy continues to show signs of improvement, increasing diversion rate, and advancements, such as improving methods in compaction techniques, will impact the remaining capacity of existing landfills not being depleted as quickly as previously projected, and therefore is anticipated to provide longer lifespan.

STRATEGY FOR MAINTAINING ADEQUATE DISPOSAL CAPACITY

This section will discuss how the County plans to maintain adequate solid waste disposal capacity for the next 15 years from 2012 to 2027. The discussion first evaluates whether the existing permitted disposal capacity in the County would be able to accommodate the solid waste generated that cannot be reduced, recycled, or reprocessed. However, as will be shown by the following evaluation, depending on existing infrastructure alone is not sufficient. As a solution, the discussion goes on to present several scenarios utilizing various options to manage the residual solid waste. Note that since the County currently has adequate permitted inert waste landfill capacity as discussed earlier in **Permitted Inert Waste Landfill** (Page 25), inert waste landfills are not included in the discussion.

Definitions

Daily Disposal Demand – The amount of solid waste generated less 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.

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

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

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

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 the waste distribution by 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 State Department of Transportation and UCLA for each year of the planning period. The UCLA Long-Term Forecast, published in July 2012, was utilized since it focuses on the Los Angeles region as compared to the State Department of Transportation, which is Statewide and yields more general projections. Additionally, the UCLA forecast data is updated more frequently. The graph below shows the parameters utilized. The detailed data is also provided in **Appendix E-2 Table 4**.

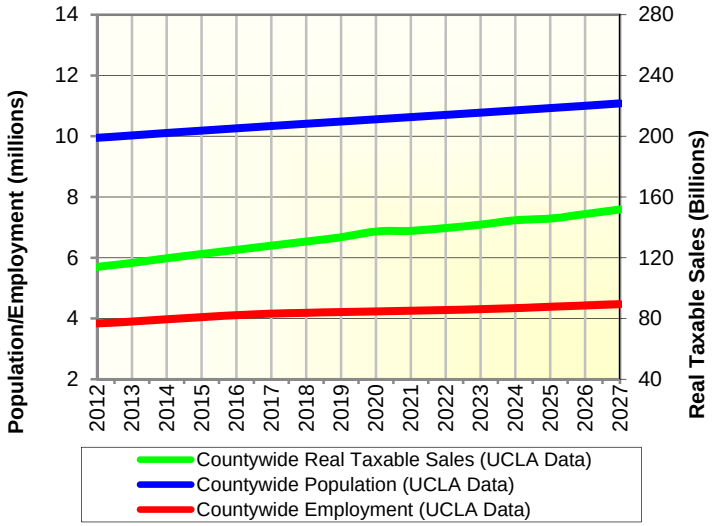


Figure 26: Population, Employment, and Real Taxable Sales

Considering each jurisdiction's SRRE and last approved base generation year as of 2005, the average Countywide distribution by sector is as follows:

Residential Waste Generation = 27 percent of total waste generation

Non-Residential Waste Generation = 73 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 17), a diversion rate of 60 percent will be assumed for analysis in this report. With this assumption, the amount of residual waste that requires disposal capacity will be 40 percent of the projected waste generation.

Transformation Facility Capacity

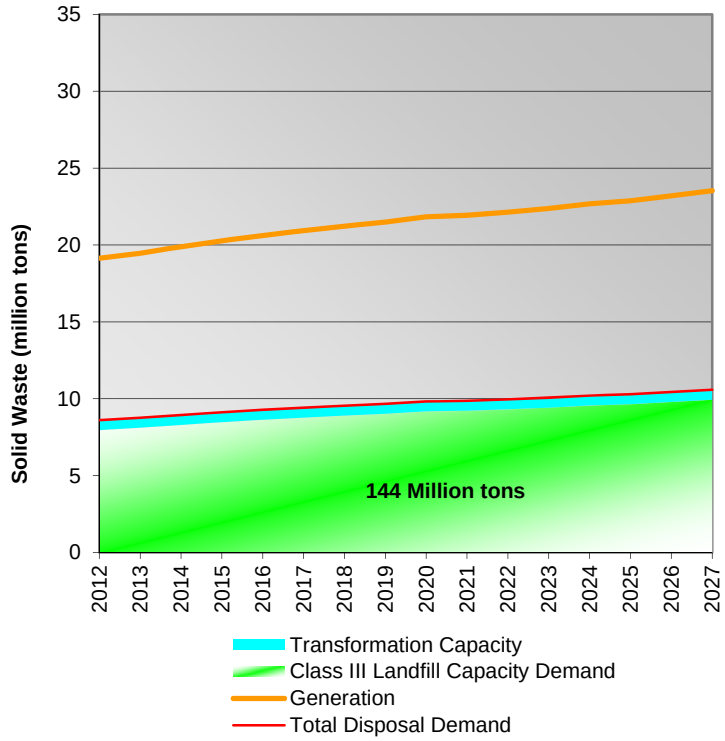
As explained earlier in **Remaining Disposal Capacity at End of 2012** (Page 24), the two transformation facilities in the County are expected to provide up to 2,069 tpd of Daily Available Capacity. The capacity is projected during the planning period.

Class III Landfill Capacity Needed

Assuming no other options are available, such as exporting to out-of-County facilities or 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 the graph below. The detailed data is also provided in **Appendix E-2 Table 5**.

Figure 27: Solid Waste Generation and Disposal Trend



The area in green illustrates the amount of Class III landfill capacity needed. By the end of year 2026, the cumulative need for Class III landfill disposal capacity, approximately 134 million tons, will exceed the 2012 remaining permitted Class III landfill capacity of 129 million (Page 24). Refer to **Appendix E-2 Table** 5.. Other constraints that may limit the accessibility of Class III landfill capacity include: wasteshed boundaries, geographic barriers, weather, and natural disasters. In conclusion, further detailed analysis that incorporates capacity options in addition to existing in-County infrastructure as well as permit constraints is necessary to provide a more thorough evaluation.

Scenario Analysis

The scenario analysis utilizes the various capacity options currently available or may become available in the future to assist the County in meeting the Daily Disposal Demand. The analysis will consider the following:

Existing in-County Class III Landfills and Transformation Facilities – The analyses take into account a facility's permitted capacity, termination date, and wasteshed restriction, if any.

Proposed Expansions of In-County Class III Landfills – The analyses assume additional disposal capacity that may be provided by proposed landfill expansions. Detailed discussion is provided in **Proposed Facility Expansions** (Page 14).

Various Levels of Imports and Exports – The analyses consider various levels of imported and exported waste from and to out-of-county jurisdictions. Existing facilities in Orange, Riverside, San Bernardino, and Ventura Counties are currently accepting waste from the County. Future use of Mesquite Regional Landfill in Imperial County is also considered. Refer to **Out-of-County Disposal Facilities** (Page 42) for more detail.

Alternative Technologies – Potential conversion technology facilities or other alternative technologies may be developed in the near future.

Increase in Diversion Rate – Potential increase in diversion rate affected by enhanced diversion programs by jurisdictions within the County.

Given all the various capacity options, the analysis evaluated nine potential scenarios during the 15-year planning period. The table below summarizes the differences between the scenarios.

For all nine scenarios, the projected waste generation and Daily Available Capacity from transformation facilities will remain unchanged from the analysis performed in **Evaluation of Existing Disposal Infrastructure** (Page 28). Given the current diversion rates achieved by jurisdictions in the county, a diversion rate of 60 percent will be applied, except for those scenarios that consider a higher diversion rate. The analysis will examine closely how much Daily Available Capacity from existing Class III landfills is expected to be utilized during each year. No new landfills in the County are expected to be permitted during the planning period. In the case where the Daily Disposal Demand cannot be met, the analysis evaluates when a Disposal Capacity Shortfall is expected to occur. Refer to **Appendix E-4 Disposal Capacity Analysis Scenarios**.

Scenario Comparison Table

Scenario No.	Existing Permitted In-County Class III Landfill Capacity	Current Available Out-of-County Disposal Capacity	Increase in Diversion Rate (up to 65 percent)	Utilization of Alternative Technology Facility Capacity (up to 2,300 tpd)	Proposed Expansions of in-County Class III Landfills	Increase In Available Out-of-County Disposal Capacity	Maximizing Diversion Rate (up to 75 percent)	Increase In Alternative Technology Facility Capacity (up to 3,500 tpd)	Full Utilization of Out-of-County Disposal Capacity
I (Status Quo Scenario)	●	●							
II Increase In Diversion Rate (Up to 65%)	●	●	●						
III Utilization of Alternative Technology Capacity (Up to 2,300 tpd)	●	●	●	●					
IV (In-County Class III Landfills Expansions with out-of-County Disposal Capacity)	●	●	●	●	●				
V (Increase In Available Out-of-County Disposal Capacity)	●	●	●	●	●	●			
VI Maximizing Diversion Rate (Up to 75%, Considering AB 341 goal)	●	●	●	●	●	●	●		
VII Increase In Alternative Technology Capacity (Up to 3,500 tpd)	●	●	●	●	●	●		●	
VIII Full Utilization of Out-of-County Disposal Capacity	●	●	●	●	●	●			●
IX (Best Case Scenario - All Solid Waste Management Options Considered Become Available)	●	●	●	●	●	●	●	●	●

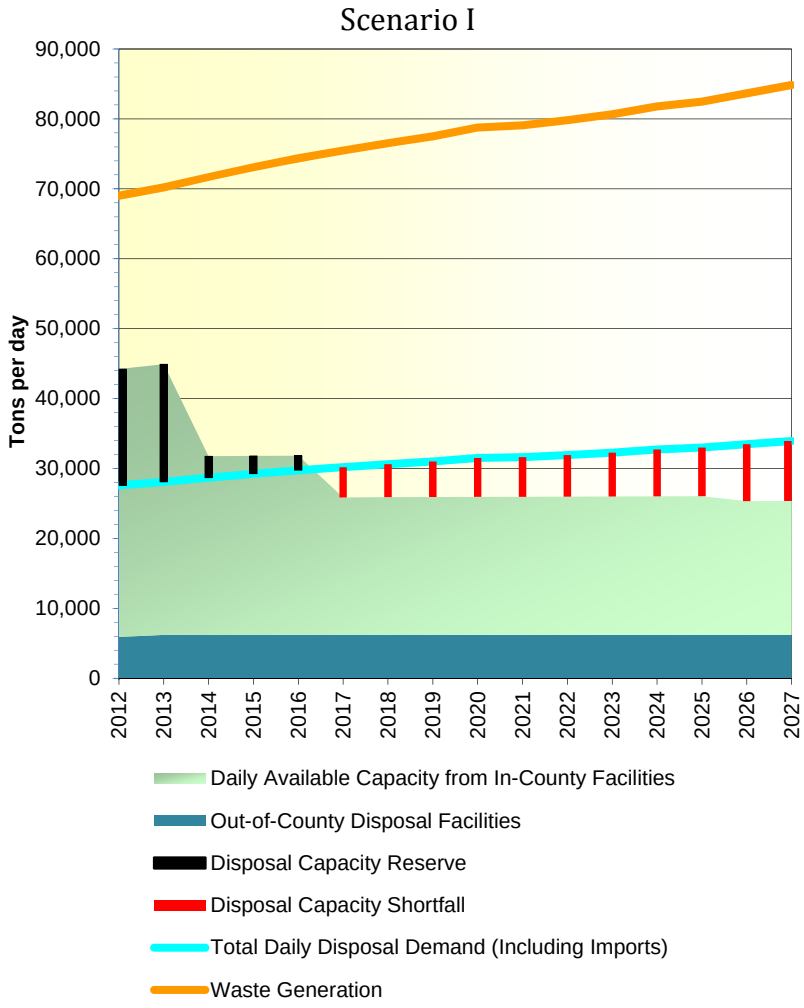
Scenario 1 - (Status Quo)

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity

Scenario I considers the use of existing disposal infrastructure and utilizes up to 6,200 tpd of out-of-County landfill capacity. The scenario assumes no expansions of existing landfills, no new landfills, and no additional capacity from alternative technologies.

The following assumptions are made with respect to imports and exports:
Imports – Based on the average rate of 452 tpd for 2012, waste import quantities are projected to be at 500 tpd for 2013 and 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur during the planning period. Refer to **Appendix E-4** for detailed data.



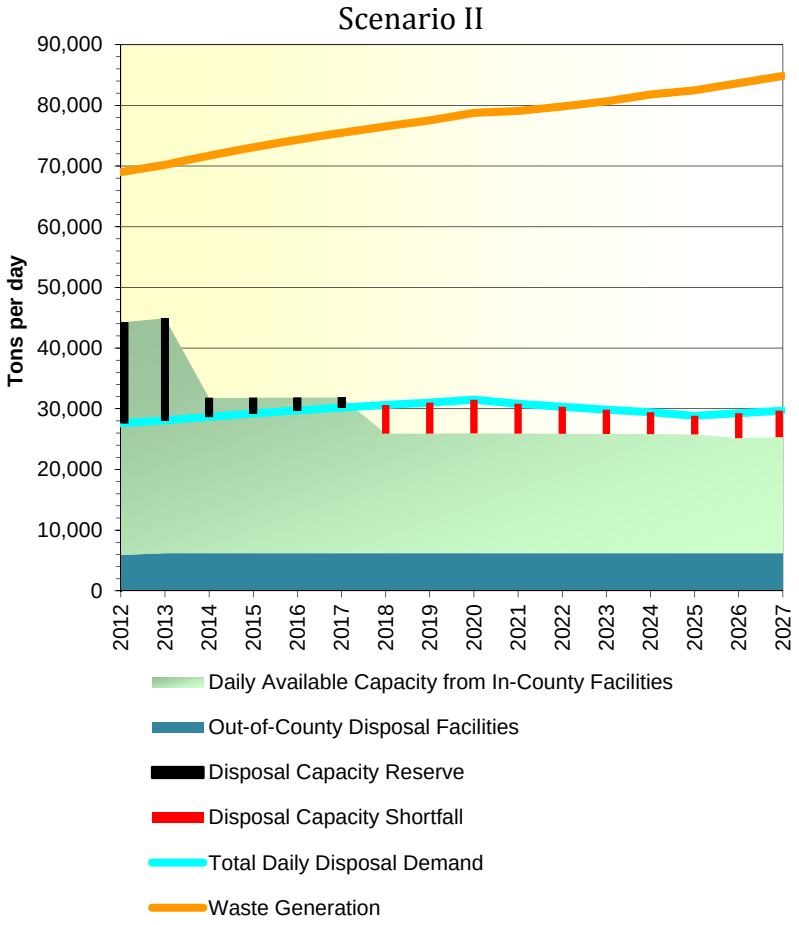
Scenario II - (Increase In Diversion Rate- up to 65%)

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65%)

Scenario II assumes that all solid waste disposed would be managed by existing disposal infrastructure and the current available Out-of-County disposal capacity. The scenario also assumes an increase in diversion of up to 65%.

The following assumptions are made with respect to imports and exports:
Imports – Based on the average rate of 452 tpd for 2012, waste import quantities are projected to be 500 tpd for 2013 and 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur during the planning period. Refer to **Appendix E-4** for detailed data.



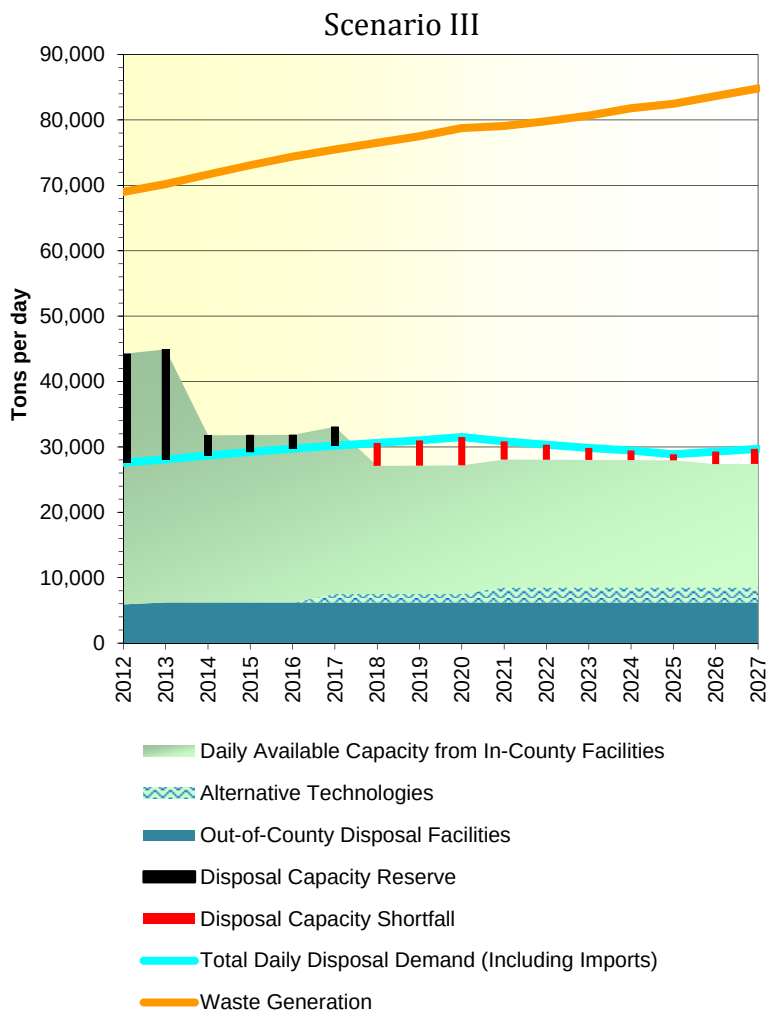
Scenario III - (Utilization of Alternative Technology Capacity- *up to 2,300 tpd)*

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)

Scenario III assumes that by 2017, alternative technology facilities for residential waste would become operational in the County. The permitted capacity of these facilities is estimated to start at 1,300 tpd in 2017 and increase up to 2,300 tpd in 2021 and throughout the remainder of the planning period.

The following assumptions are made with respect to imports and exports:
Imports – Based on the average rate of 452 tpd for 2012, waste import quantities are projected to be 500 tpd for 2013 and 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall is expected to occur during the planning period. Refer to **Appendix E-4** for detailed data.



Scenario IV - (In-County Class III Landfill Expansions with Out-of-County Disposal Capacity)

- Existing In-County Class III Landfills and Transformation Facilities
- Current Available Out-of-County Disposal Capacity
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

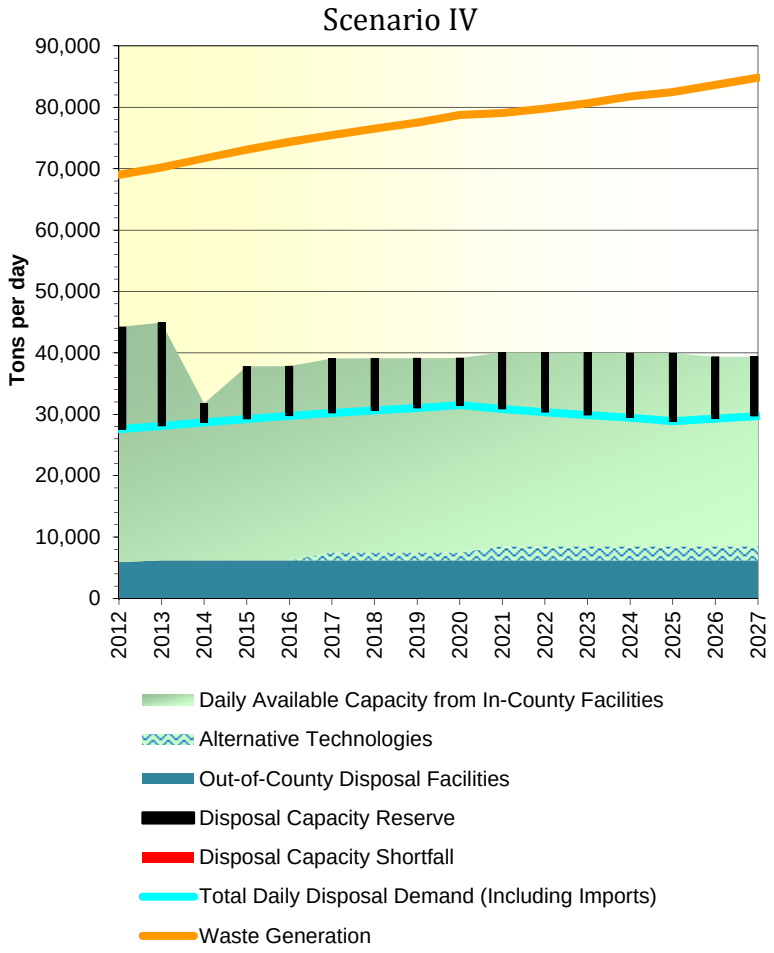
Along with the other assumptions mentioned in Scenario III, Scenario IV assumes the use of additional capacity from proposed expansions of existing in-County disposal infrastructure.

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

Imports – Based on the average rate of 452 tpd for 2012, waste import quantities are projected to be 500 tpd for 2013 and 700 tpd every year thereafter.

Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and it is assumed to be at 6,200 tpd through the remainder of the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would not be expected during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



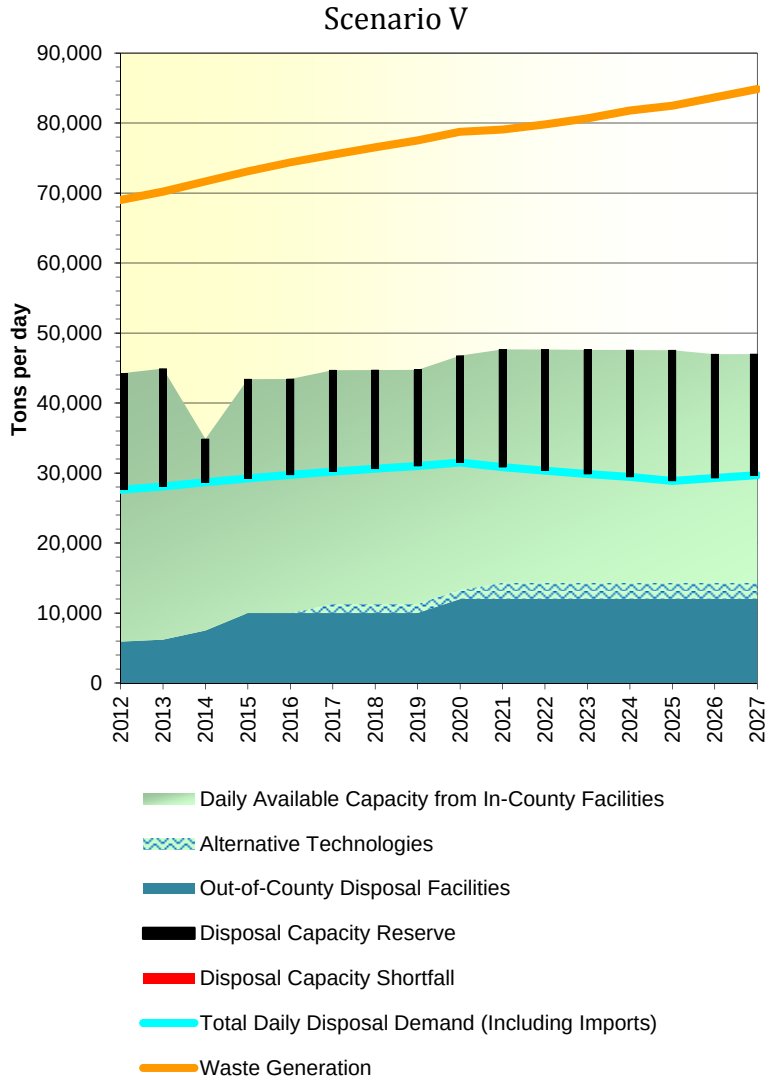
Scenario V - (Increase in Available Out-of-County Disposal Capacity)

- Existing In-County Class III Landfills and Transformation Facilities
- Increase in Available Out-of-County Disposal Capacity (up to 12,000 tpd)
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario V uses the same assumptions as Scenario IV, with the exception of assuming an increase in available out-of-County disposal capacity of up to 12,000 tpd.

The following assumptions are made with respect to imports and exports:
Imports – Based on the rate of 452 tpd for 2012, waste import quantities are projected at 500 tpd for 2013 and increase to 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and will be assumed to increase up to 12,000 tpd during the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would not be expected during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



Scenario VI - (Maximizing Diversion Rate- up to 75%, Considering AB 341 Goal)

- Existing In-County Class III Landfills and Transformation Facilities
- Increase in Available Out-of-County Disposal Capacity (up to 12,000 tpd)
- Maximizing Diversion Rate (up to 75%)
- Increase in Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

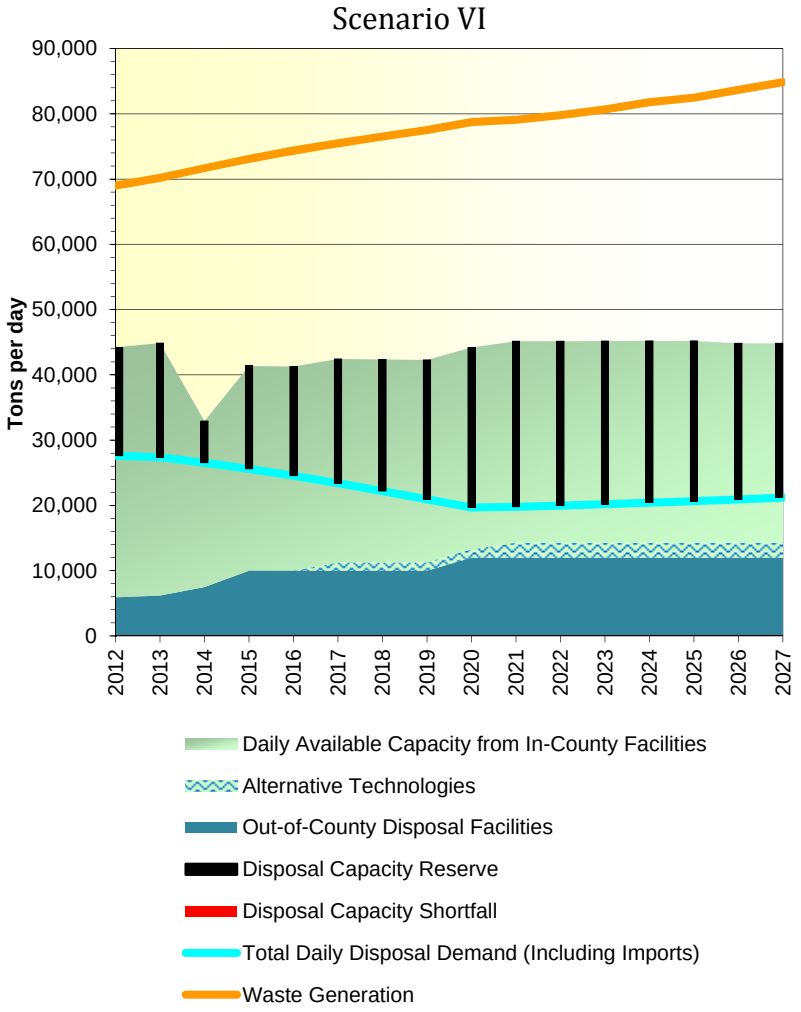
Scenario VI is similar to Scenario V, with the exception of the diversion rate, which is assumed to increase each year beginning in 2013 until it reaches 75 percent in 2020. It will remain at 75 percent through 2027. This scenario maximizes the diversion rate by complying with the AB 341 goal.

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

Imports – Based on the rate of 452 tpd for 2012, waste import quantities are projected at 500 tpd for 2013 and increase to 700 tpd every year thereafter.

Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and will be assumed to increase up to 12,000 tpd during the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would not be expected during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



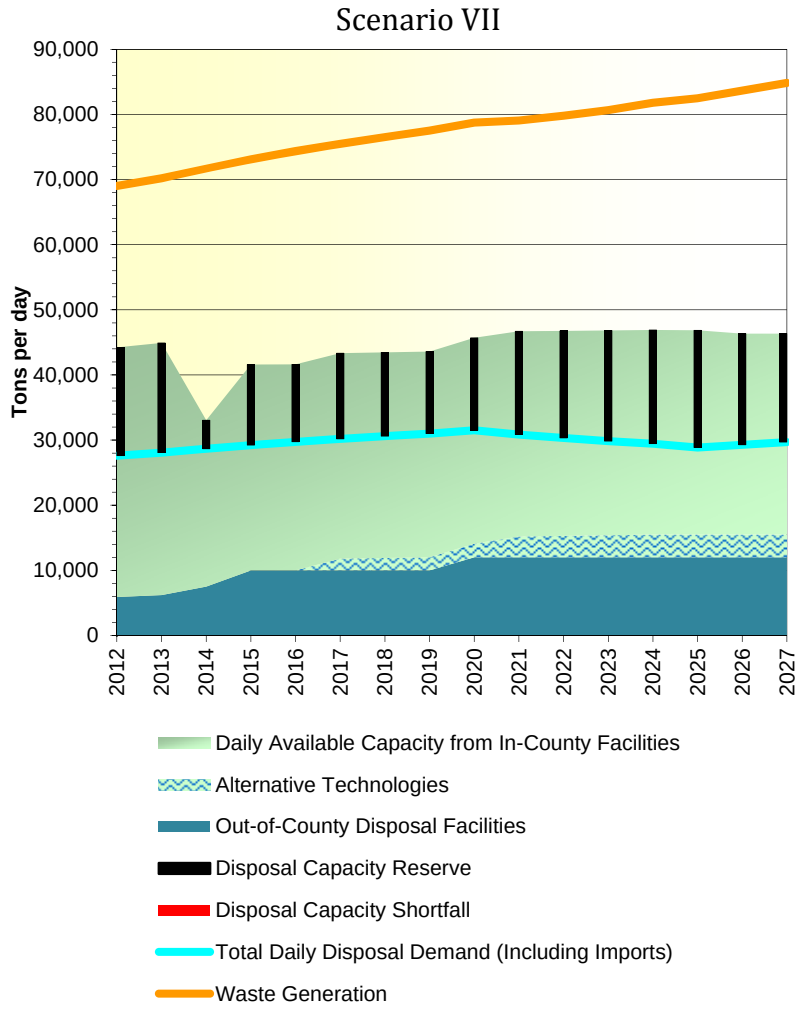
Scenario VII - (Increase in Alternative Technology Capacity- up to 3,500 tpd)

- Existing In-County Class III Landfills and Transformation Facilities
- Increase in Available Out-of-County Disposal Capacity (up to 12,000 tpd)
- Increase in Diversion Rate (up to 65%)
- Increase in Alternative Technology Capacity (up to 3,500 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario VII is similar to Scenario V, with the exception of the increased alternative technology capacity of up to 3,500 tpd.

The following assumptions are made with respect to imports and exports:
Imports – Based on the rate of 452 tpd for 2012, waste import quantities are projected at 500 tpd for 2013 and increase to 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and will be assumed to increase up to 10,000 tpd during the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would not be expected during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



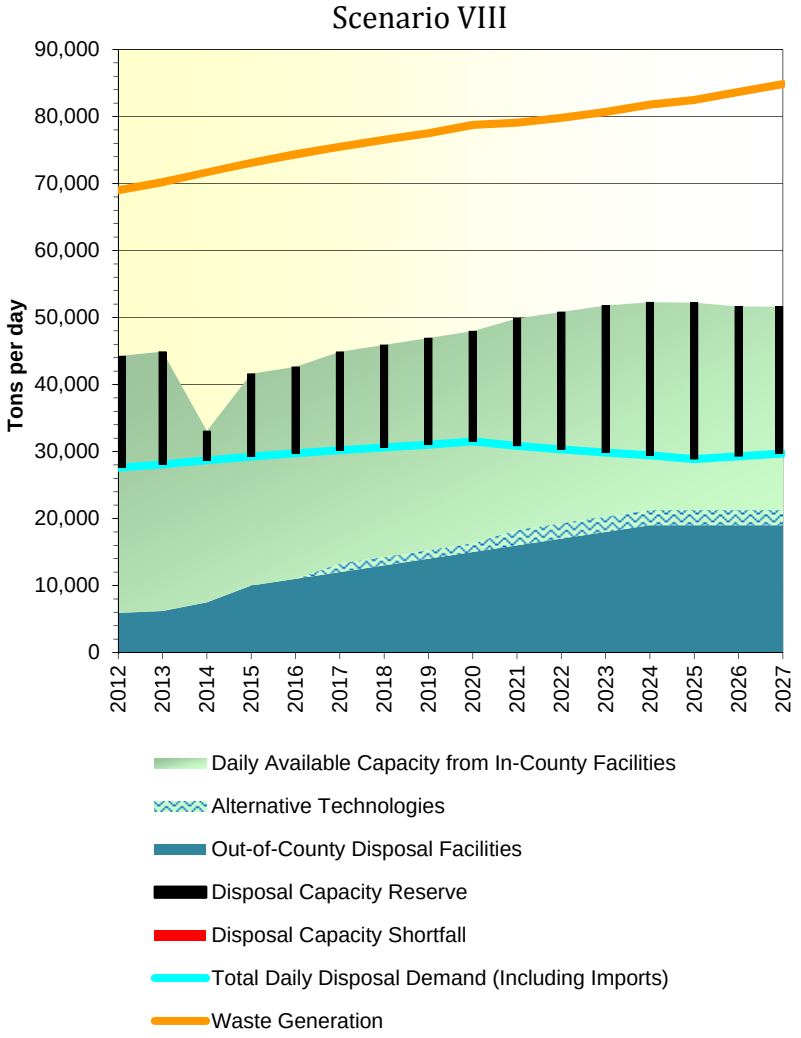
Scenario VIII - (Full Utilization of Available Out-of-County Disposal Capacity)

- Existing In-County Class III Landfills and Transformation Facilities
- Full Utilization of Available Out-of-County Disposal Capacity (up to 19,000 tpd)
- Increase in Diversion Rate (up to 65%)
- Utilization of Alternative Technology Capacity (up to 2,300 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario VIII is similar to Scenario V, with the exception of the full utilization of available out-of-County disposal capacity of up to 19,000 tpd.

The following assumptions are made with respect to imports and exports:
Imports – Based on the rate of 452 tpd for 2012, waste import quantities are projected at 500 tpd for 2013 and increase to 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and will be assumed to gradually increase up to 19,000 tpd during the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would not be expected during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



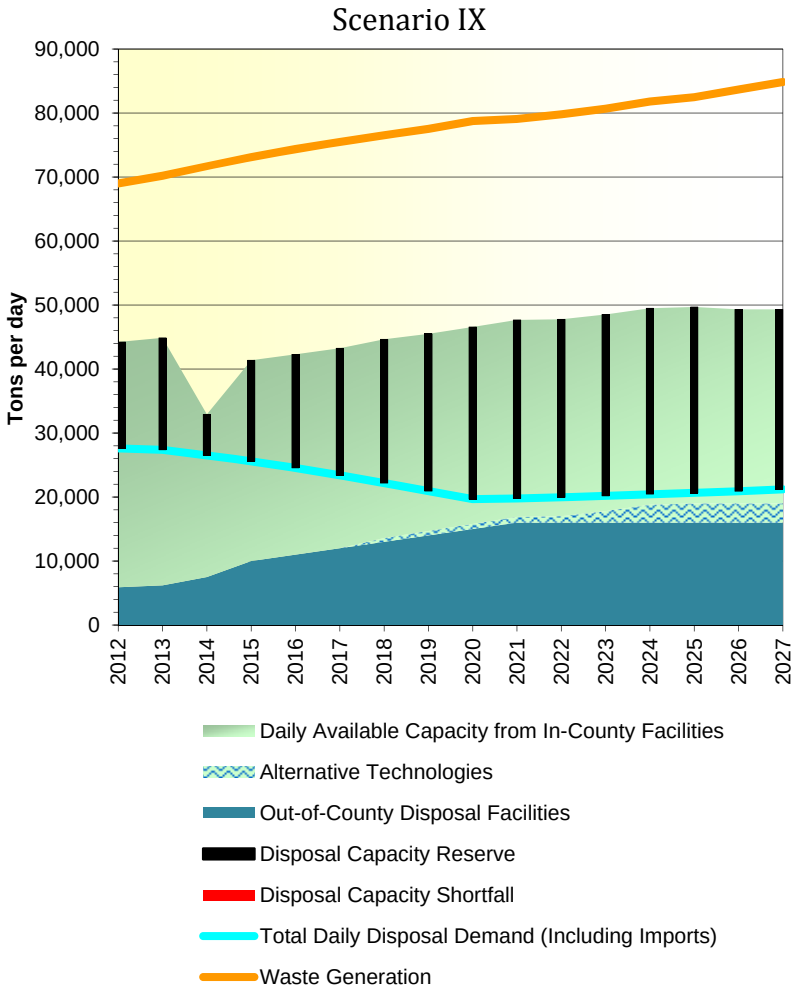
Scenario IX - (Best Case)

- Existing In-County Class III Landfills and Transformation Facilities
- Utilization of Out-of-County Disposal Capacity (up to 16,000 tpd)
- Maximizing Diversion Rate (up to 75%)
- Increase in Alternative Technology Capacity (up to 3,000 tpd)
- Proposed Expansions of In-County Class III Landfills

Scenario IX includes all solid waste management options mentioned in all of the previous scenarios.

The following assumptions are made with respect to imports and exports:
Imports – Based on the rate of 452 tpd for 2012, waste import quantities are projected at 500 tpd for 2013 and increase to 700 tpd every year thereafter.
Exports – The amount of waste exported to out-of-County landfills in 2012 was approximately 5,911 tpd and will be assumed to gradually increase up to 16,000 tpd during the planning period.

Based on these assumptions, a Disposal Capacity Shortfall would not be expected during the 15-year planning period. Refer to **Appendix E-4** for detailed data.



Out-of-County Disposal Facilities

The scenario analysis considers the availability or potential availability of these out-of County disposal facilities:

El Sobrante Landfill, Riverside County – It has a remaining capacity of 179 million tons and an expected design lifespan of about 33 years as of January 1, 2012. It is permitted to receive 16,054 tpd of waste for disposal. In 2012, the landfill received an average of 6,179 tpd, of which 2,640 tpd were imported from Los Angeles County. It is assumed that the landfill could receive up to 4,000 tpd from Los Angeles County during the planning period.

Frank R. Bowerman Sanitary Landfill, Olinda Alpha Sanitary Landfill, and Prima Deshecha Sanitary Landfill, Orange County –Orange County currently has waste importation agreements with various entities in Los Angeles County. It is assumed that these landfills could collectively receive up to 4,500 tpd from Los Angeles County through 2015. In 2012, Frank R Bowerman Sanitary Landfill, Olinda Alpha Sanitary Landfill, and Prima Deshecha Sanitary Lanfill received 158 tpd, 1,878 tpd, and 60 tpd from Los Angeles County, respectively.

Simi Valley Landfill & Recycling Center, Ventura County – The Landfill is permitted to receive a maximum of 6,000 tpd, of which 766 tpd came from Los Angeles County in 2012. It is assumed that the landfill could receive up to 3,000 tpd from Los Angeles County during the planning period.

Mesquite Regional Landfill, Imperial County – The Sanitation Districts acquired the landfill in 2002 and completed construction of all infrastructures on December 24, 2008. The landfill is permitted to accept up to 20,000 tpd with a total disposal capacity of 582 million tons, which is equivalent to a lifespan of nearly 100 years. It is assumed that the Landfill could receive up to 12,000 tpd from Los Angeles County during the planning period.

Eagle Mountain Landfill, Riverside County - Eagle Mountain Landfill, owned by Mine Reclamation Corporation, is located in Riverside County. It is permitted to accept 10,000 tpd for the first 10 years, with the option of increasing the daily limit to 20,000 tpd after a review of environmental performance. Its permitted capacity of 460 million tons and total capacity of 708 million tons would provide an approximate lifespan of 100 years. Due in part to a Federal litigation and bankruptcy filing by the landfill developer, on May 22, 2013, the Sanitation Districts took action to cease negotiations forEagle Mountain Landfill.

These out-of-County landfills could potentially handle up to approximately 21,350 tpd of waste from Los Angeles County. Refer to **Appendix E-2 Table 3** for more detailed data.

Conclusion

The scenario analysis discussed earlier assessed the County's ability to meet the Daily Disposal Demand under 9 scenarios.

Under *Scenario I Status Quo*, without expanding existing landfills in the County, available disposal capacity would be inadequate to meet the Daily Disposal Demand of all 88 cities and the unincorporated County areas.

Scenario II: Increase In Diversion Rate of up to 65% by 2027 shows that available disposal capacity would still be inadequate to meet the Daily Disposal Demand. Considering existing in-County landfill disposal capacity and utilization of up to 6,200 tpd of out-of-County disposal capacity, *Scenario III: Utilization of Alternative Technology Up to 2,300 tpd by 2027* shows a shortfall would still be experienced beginning 2018. This demonstrates that jurisdictions in Los Angeles County would need to pursue additional strategies to meet the needs of residents and businesses through the 15-year planning period.

Scenario IV: In-County Class III Landfill Expansions with Out-of-County Disposal Capacity assesses the effects of expanding existing Class III in-County landfills with the current available out-of-County disposal capacity. Based on this assumption, a disposal shortfall would not occur during the planning period. Scenarios V through IX assess the effects of a multi-pronged strategies, including maximizing the Countywide diversion rate up to 75 percent by 2027, consistent with the State's recycling goal; increasing alternative technology capacity up to 3,500 tpd by 2027; and the full utilization of out-of-County disposal capacity of up to 19,000 tpd by 2027.

Through various combinations of these options, Scenarios IV through IX demonstrate that the jurisdictions in Los Angeles County would be able to meet the disposal needs through the 15-year planning period. In conclusion, in order to avert a disposal shortfall, jurisdictions in Los Angeles County must continue to pursue all of the following strategies:

- **Expand Existing Landfills** – Expanded landfill capacity is necessary, provided it can be done in a technically feasible and environmentally safe manner.

- **Study, Promote, and Develop Conversion Technologies** – Development of commercial-scale state-of-the-art conversion technologies, as an alternative to landfilling, appears within reach. Jurisdictions must invest and actively participate in the research, promotion, and development of alternative technology facilities. Actions that may be taken by jurisdictions include:
  - Supporting legislation that places these facilities higher than landfilling in the waste management hierarchy.
  - Entering into waste commitment agreements.
  - Establishing partnerships with facilities and technology vendors.

- **Expand Transfer and Processing Infrastructure** – Development of additional in-County solid waste management infrastructure, such as transfer/processing,

composting, and anaerobic digestion facilities, to assist jurisdictions in achieving higher levels of diversion and to facilitate transport to out-of-County landfills.

- **Develop a Waste-by-Rail System** – Currently, nearly all solid waste in Los Angeles County is transported to disposal sites in the metropolitan area by truck. However, as public opposition to siting new or expanding existing disposal facilities near urban areas has grown, sites farther from the Los Angeles Basin have become more desirable, despite the costs associated with longer transport distances. For some sites, such as the Mesquite Regional Landfill in Imperial County which is 210 miles from downtown Los Angeles, rail transport is an efficient means to transport solid waste to remote disposal sites. Transitioning to remote disposal of solid waste that involves rail transport requires new infrastructure and continues to be developed by the Sanitation Districts. The Waste-by-Rail system will provide long-term disposal capacity to replace local landfills as they reach capacity and close. 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 unto rail carts at the PHIMF, and then transported via rail to the Mesquite Regional Landfill for disposal.

- **Maximize Waste Reduction and Recycling** – A steady increase in the Countywide diversion rate could significantly reduce the Daily Disposal Demand, extend landfill life, and assure that Los Angeles County will be able to meet the disposal needs of its residents and businesses. All jurisdictions are strongly encouraged to continue to expand and enhance programs to maximize Diversion.

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

Nevertheless, the preceding scenario analysis provides a useful tool to assess the ability of jurisdictions in Los Angeles County to meet the disposal needs of their residents and businesses under various conditions. Given that solid waste disposal is an essential public service, it must be provided without interruption in order to protect public health and safety as well as the environment. Accordingly, major concerted actions must continue to be taken by jurisdictions towards expanding and enhancing waste reduction and recycling programs, and implementing prudent solid waste management strategies.

JURISDICTION/REGIONAL AGENCY CONTACT

Primary Contact

PAT PROANO
Assistant Deputy Director
Environmental Programs Division

Phone: (626) 458-3500
Fax: (626) 458-3569
E-Mail: pproano@dpw.lacounty.gov

Mailing Address

County of Los Angeles Department of Public Works
Environmental Programs Division
P.O. Box 1460
Alhambra, CA 91802-1460

Secondary Contact

BAHMAN HAJIALIAKBAR
Assistant Division Engineer
Environmental Programs Division

Phone: (626) 458-3502
Fax: (626) 458-3569
E-Mail: bhaji@dpw.lacounty.gov

CARLOS RUIZ
Assistant Division Engineer
Environmental Programs Division

Phone: (626) 458-3501
Fax: (626) 458-3569
E-Mail: caruiz@dpw.lacounty.gov

Appendix E-1 Solid Waste Facility Fact Sheets

Antelope Valley Recycling & Disposal Facility

1. FACILITY INFORMATION

Owner: Waste Management of California, Inc.
Operator: Waste Management of California, Inc.

Address: 1200 West City Ranch Road, Palmdale 93551
Operating Days: Monday-Saturday
SWFP No: 19-AA-5624
SWFP Issue Date: 11/16/2011
Last 5-year Review Date: 09/28/2011
5-year Review Due Date: 11/16/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	16,913,937 tons	19,952,356 cubic yards
Estimated Remaining Life:	30 years (based on the current SWFP estimated closure date)	
In-Place Density:	0.76 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	1,800 tons	[2,368 cubic yards]
Yearly Equivalent:	[561,600 tons]	[738,947 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	832 tons	[1,095 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 98-12 **Effective:** 06/09/2011 **Expiration:** Completion of Project

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 6-95-119A2 **Effective:** 10/10/2001

7. FOC GRANT DATE – 11/17/2011

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.

11. REMARKS/STATUS - The City of Palmdale approved the expansion of Antelope Valley Landfill, which consolidates Unit 1 and Unit 2, on June 9, 2011

Note: Calculated or assumed quantities are shown in brackets.

Azusa Land Reclamation Landfill

1. FACILITY INFORMATION

Owner: USA Waste of California, Inc.
Operator: USA Waste of California, Inc.

Address: 1211 West Gladstone Street, Azusa, CA 91702
Operating Days: Monday-Saturday
SWFP No: 19-AA-0013
SWFP Issue Date: 12/08/1989
Last 5-year Review Date: 03/10/2011
5-year Review Due Date: 03/10/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	64, 125,859 tons	52,134,844 cubic yards
Estimated Remaining Life:	718 years (based on average daily disposal of 286 tpd, 312 days per year)	
In-Place Density:	1.23tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	6,500 tons	[5,285 cubic yards]
Yearly Equivalent:	[2,028,000 tons]	[1,648,780 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	[286] tons	[232 cubic yards]

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

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 - 6,500 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. Permitted daily capacity of 6,500 tpd consists of 6,000 tpd of refuse and 500 tpd of inert waste. Facility currently accepts inert waste only.

Note: Calculated or assumed quantities are shown in brackets.

Burbank Landfill

1. FACILITY INFORMATION

Owner: City of Burbank **Operator:** City of Burbank

Address: 3000 Bel Aire Drive, Burbank, CA 91504 **Operating Days:** Monday-Friday
SWFP No.: 19-AA-0040 **SWFP Issue Date:** 06/03/1997
Last 5-year Review Date: 07/11/2011 **5-year Review Due Date:** 07/11/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity: [2,950,200 tons] 5,364,000 cubic yards
Estimated Remaining Life: 41 years (based on the current SWFP estimated closure date)
In-Place Density: 0.55 tons/cubic yard

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 240 tons [436 cubic yards]

Yearly Equivalent: [62,400] [113,455 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily: 128 tons [233 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 2000-16 Effective: 11/13/2000

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2011-0052 Effective 03/03/2011

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: Calculated or assumed quantities are shown in brackets.

Calabasas Landfill

1. FACILITY INFORMATION

Owner: County of Los Angeles
Operator: County Sanitation District 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: 08/05/2002
Last 5-year Review Date: 08/11/2009
5-year Review Due Date: 08/11/2014

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	5,514,921 tons	12,337,631 cubic yards
Estimated Remaining Life:	16 years (based on the current SWFP estimated closure date)	
In-Place Density:	0.447 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	3,500 tons	[7,830 cubic yards]
Yearly Equivalent:	[1,092,000 tons]	[2,442,953 cubic yards]

4. 2012AVERAGE WASTE QUANTITIES DISPOSED

Daily:	604 tons	[1,351 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 5022-(5) **Effective:** 08/08/1972

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: Calculated or assumed quantities are shown in brackets.

Chiquita Canyon Landfill

1. FACILITY INFORMATION

Owner: Chiquita Canyon, LLC, a subsidiary of Waste Connections, Inc.

Operator: Waste Connections Inc.

Address: 29201 Henry Mayo Drive, Valencia 91355
(Los Angeles County unincorporated area)

Operating Days: Monday-Saturday
SWFP No.: 19-AA-0052
SWFP Issue Date: 07/07/2008
Last 5-year Review Date: 12/01/2006
5-year Review Due Date: 12/01/2011

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	[3,972,886 tons]	[6,019,524 cubic yards]
Estimated Remaining Life:	2 years (based on maximum permitted rate of disposal of 6,000 tpd)	
In-Place Density:	0.66 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	6,000 tons	[9,091 cubic yards]
Yearly Equivalent:	[1,560,000 tons]	[2,836,364 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	2,970 tons	[4,500 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 89-081(5) **Effective:** 05/20/1997 **Expiration:** 11/24/2019 or upon completion of approved filled design, whichever is sooner.

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 - 02/19/1998

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

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

11. REMARKS/STATUS - On December 5, 2008, Republic Services, Inc. merged with Allied Waste Industries, Inc. Due to the merger, Republic Services must divest Chiquita Canyon Landfill. On February 6, 2009, Republic Services and Waste Connections signed a definitive agreement providing for the sale of the Chiquita Canyon Landfill to Waste Connections, Inc. LUP limits waste disposal to 30,000 tons per week.

Note: Calculated or assumed quantities are shown in brackets.

Proposed Expansion

Chiquita Canyon Landfill Expansion

1. **FACILITY TYPE -** Class III landfill

2. **OWNER/OPERATOR –** Chiquita Canyon, LLC, a subsidiary of Waste Connections, Inc.

3. **LOCATION -** 29201 Henry Mayo Drive, Valencia 91355 (Los Angeles County Unincorporated Area)

4. **SIZE**

Increase in Proposed Disposal Area:	143 acres	(Total 400 acres)
Increase in Total Acreage of Site:	0 acres	(Total 639 acres)
Increase in Vertical Elevation:	143 feet	

5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	12,000 tons	[20,000 cubic yards]
Weekly:	60,000 tons	[100,000 tons]
Yearly Equivalent:	[3,120,000 tons]	[5,200,000 cubic yards]
Additional Facility Capacity:	[53,312,400tons]	88,854,000 cubic yards
In-Place Density:	0.6 tons/cubic yard	

6. **LAND USE/CONDITIONAL USE PERMIT** – **Effective**: 05/09/1997 **Expiration**: 11/24/2019.

7. **LIFE EXPECTANCY –** An additional of 26 years based on 2011 average daily disposal of 4,264 tpd or 9 years based on the maximum permitted rate of disposal of 12,000 tpd.

8. **EXPANSION OPTIONS -** Proposed horizontal and vertical expansion of disposal area. The final elevation of the site increases from 1430' to 1573'.

9. **POST-CLOSURE USES -** Open space

10. On December 5, 2008, Republic Services, Inc. merged with Allied Waste Industries, Inc, and was required to divest Chiquita Canyon Landfill. On February 6, 2009, Republic Services and Waste Connections signed an agreement providing for the sale of the Chiquita Canyon Landfill to Waste Connections, Inc. Subsequently, Waste Connections, Inc. applied for a new CUP to increase the daily disposal capacity to 12,000 tpd. The County of Los Angeles Department of Regional Planning prepared a Notice of Preparation and circulated it for public comments from November 28, 2011 to February 13, 2012. On June 5, 2013, the County of Los Angeles Department of Regional Planning initiated the CEQA process on behalf of Waste Connections, Inc. for the landfill expansion and circulated the Draft Environmental Impact Report for County agencies' reviews and comments from June 5, 2013 to August 5, 2013.

Note: Calculated or assumed quantities are shown in brackets.

Commerce Refuse-to-Energy Facility (CREF)

1. FACILITY INFORMATION

Owner: Commerce Refuse-to-Energy Authority (City of Commerce and County Sanitation District No. 2 of Los Angeles County)

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

Address: 5926 Sheila Street, Commerce, CA 90040
SWFP No.: 19-AA-0506
Last 5-year Review Date: 08/15/2007

Operating Days: Monday-Sunday
SWFP Issue Date: 07/09/1997
5-year Review Due Date: 08/15/2012

2. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 1,000 tons (SWFP Requirement)
Weekly: 2,800 tons (SWFP Requirement)

3. 2012 AVERAGE WASTE QUANTITIES

Daily Received: 363 tpd **Daily Processed:** 360 tpd

4. LAND USE/CONDITIONAL USE PERMIT – Not Applicable

5. WASTE DISCHARGE REQUIREMENTS - Not Applicable

6. PERMITTED WASTE TYPES - Solid waste

7. FOC GRANT DATE – 10/20/1983

8. FUTURE LAND USE - Not applicable

9. RESTRICTIONS - Facility requires high energy content waste. The City of Commerce Planning Commission made a written determination that the facility is consistent with the City's Plan, and the adjacent zoning and surrounding land use is compatible with its operation.

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 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: 08/18/2011
5-year Review Due Date: 02/19/2018

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	12,273,633 tons	14,490,712 cubic yards
Estimated Remaining Life:	13 years (based on maximum permitted rate of disposal of 3,000 tpd)	
In-Place Density:	0.80 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	3,000 tons	[3,750 cubic yards]
Yearly Equivalent:	[936,000 tons]	[1,170,000 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	690 tons	[812 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 03-170-(5) **Effective:** 12/14/2011 **Expiration:** 12/14/2041

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 6-00-55 **Effective:** 06/14/2000

7. FOC GRANT DATE - 04/20/2000

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.

Note: Calculated or assumed quantities are shown in brackets.

Out-of-County Landfill

Mesquite Regional 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: 10/03/2011
5-year Review Due Date: 10/03/2016

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	[600,000,000 tons]	[1,000,000,000 cubic yards]
Estimated Remaining Life:	100 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. 2012 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

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R7-2009-0003 **Effective:** 06/18/2009

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 EIR 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 brackets.

Pebbly Beach Landfill

1. FACILITY INFORMATION

Owner: City of Avalon
Operator: Seagull Sanitation Systems (Republic Services, Inc.)
Address: 1 Dump Road, Avalon 90704 (Los Angeles County Unincorporated Area)
Operating Days: Monday-Sunday
SWFP No.: 19-AA-0061
SWFP Issue Date: 04/10/2001
Last 5-year Review Date: 05/03/2015
5-year Review Due Date: 05/03/2010

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	[93,066 tons]	104,568 cubic yards
Estimated Remaining Life:	16 years (based on Land Use Permit Restriction)	
In-Place Density:	0.89 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	49 tons	[55 cubic yards]
Yearly Equivalent:	[17,885 tons]	[20,095 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	8 tons	[9 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 96-162-(4) **Effective:** 07/29/1998 **Expiration:** 07/29/2028

6. WASTE DISCHARGE REQUIREMENTS

Order No.: R4-2002-0058 **Effective:** 02/28/2002

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.

Note: Calculated or assumed quantities are shown in brackets.

Puente Hills Landfill

1. FACILITY INFORMATION

Owner: County Sanitation District No. 18 of Los Angeles County
Operator: County Sanitation District 2 of Los Angeles County
Address: 13130 Crossroads Parkway South, Industry 91746 (Los Angeles County Unincorporated Area)
Operating Days: Monday-Saturday
SWFP No.: 19-AA-0053
SWFP Issue Date: 06/08/2010
Last 5-year Review Date: 7/11/2008
5-year Review Due Date: 06/08/2015

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	6,096,969 tons	[11,085,398 cubic yards]
Estimated Remaining Life:	1 year (based on Land Use Permit Restriction)	
Aggregate Density:	0.55 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	13,200 tons	[24,000 cubic yards]
Yearly Equivalent:	[4,118,400 tons]	[7,488,000 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	6,625 tons	[12,045 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 02-027-(4) **Effective:** 12/18/2002 **Expiration:** 10/31/2013

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 93-062 **Effective:** 09/27/1993, amended by:
Order No.: R4-2006-0007 **Effective:** 01/19/2006

7. FOC GRANT DATE - 02/20/2003

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space and recreational use

10. RESTRICTIONS - Limited to 13,200 tpd of solid waste, 11,700 tpd of soil, and 33,000 tpw of beneficial reuse material. The Landfill can only accept treated incinerator ash, and biosolids sewage (sludge) from the operator's wastewater treatment facilities. The County of Los Angeles Regional Planning Commission granted a new Conditional Use Permit on December 18, 2002 and the limited life of the project to October 31, 2013.

Note: Calculated or assumed quantities are shown in brackets.

San Clemente Landfill

1. FACILITY INFORMATION

Owner: U.S. Department of the Navy

Operator: U.S. Department of the Navy

Address: Naval Auxiliary Landing Field, San Clemente Island 92135

Operating Days: 2 days/week (Tuesday and Thursday)

SWFP No.: 19-AA-0063

SWFP Issue Date: 11/19/2002

Last 5-year Review Date: 01/07/2008

5-year Review Due Date: 01/07/2013

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	[39,735 tons]	317,882 cubic yards (based on 12/9/2011)
Estimated Remaining Life:	20 years (based on the current SWFP estimated closure date)	
In-Place Density:	0.125 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	10 tons	[80 cubic yards]
Yearly Equivalent:	[1,040 tons]	[8,320 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	2 ton	[16 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT – Not Applicable

6. WASTE DISCHARGE REQUIREMENTS – Not Applicable

7. FOC GRANT DATE – None

8. PERMITTED WASTE TYPES - Solid waste

9. FUTURE LAND USE - Open space

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

Note: Calculated or assumed quantities are shown in brackets.

Scholl Canyon Landfill

1. FACILITY INFORMATION

Owner: City of Glendale & County of Los Angeles
Operator: County Sanitation Districts 2 of Los Angeles County
Address: 3001 Scholl Canyon Road, Glendale, CA 91206
Operating Days: Monday-Saturday
SWFP No.: 19-AA-0012
SWFP Issue Date: 12/13/2011
Last 5-year Review Date: 12/03/2009
5-year Review Due Date: 12/03/2014

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	3,407,178 tons	7,010,654 cubic yards
Estimated Remaining Life:	16 years (based on average daily disposal of [675 tpd], 312 days per year)	
In-Place Density:	0.486 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	3,400 tons	[6,996 cubic yards]
Yearly Equivalent:	[1,060,800 tons]	[2,182,716 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	[675 tons]	[1,389 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.: 6668-U (Zoning Variance) **Effective:** 11/27/1978 **Expiration:** Completion of Project

6. WASTE DISCHARGE REQUIREMENTS

Order No.: 01-132 **Effective**: 09/19/1988;
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: Calculated or assumed quantities are shown in brackets.

Proposed Expansion

Scholl Canyon Landfill Expansion

1. **FACILITY TYPE** - Class III landfill

2. **OWNER:** City of Glendale & County of Los Angeles **OPERATOR:** County Sanitation Districts 2 of Los Angeles County

3. **LOCATION** - 3001 Scholl Canyon Road, Glendale, CA 91206

4. **SIZE**

Increase in Proposed Disposal Area:	0 acres
Increase in Total Acreage of Site:	Variation 1: None Variation 2: To Be Determined
Increase in Vertical Elevation:	Variation 1: None Variation 2: To Be Determined

5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	3,400 tons	[7,556 cubic yards]
Yearly Equivalent:	[1,060,800 tons]	[2,271,520 cubic yards]
Additional Facility Capacity:	Variation 1: 5.0 million tons (vertical expansion only): Variation 2: 6.0 million tons (horizontal and vertical expansion)	
In-Place Density:	0.486 tons/cubic yard	

6. **ADDITIONAL LIFE DUE TO EXPANSION**

Variation 1:
[5 years] based on 5.0 million tons of remaining disposal capacity, at 3,400 tpd, and 312 operating days/year (based on permitted capacity); or
[21 years] based on 5.0 million tons of remaining disposal capacity, at 754 tpd, and 312 operating days/year (based on 2012 Average Daily Rate).

Variation 2:
[6 years] based on 6.0 million tons, at 3,400 tpd, and 312 operating days/year (based on permitted capacity); or
[26 years] based on 6.0 million tons, at 754 tpd, and 312 operating days/year (based on 2012 Average Daily Rate).

7. **EXPANSION OPTIONS -** The potential expansion of this Landfill is recognized in the Joint Powers Authority governing the operation of the site; however, details on the expansion have not been finalized. The currently proposed expansion consists of two variations: Variation 1 (vertical expansion only) and Variation 2 (vertical and horizontal expansion). The Landfill would continue to be permitted to receive 3,400 tpd of non-hazardous solid waste, and all resource and material recovery programs will continue to be implemented.

8. **POST-CLOSURE USES -** Park, recreation, and roadway purposes; or for the implementation of solid waste management alternatives or other facilities related to the operation of a sanitary landfill on the premises.

9. **REMARKS/STATUS -** It is estimated that once the permitted capacity is exhausted, approximately 6 million tons of potentially available capacity would remain at the site.

Note: Calculated or assumed quantities are shown in brackets.

Southeast Resource Recovery Facility (SERRF)

1. FACILITY INFORMATION

Owner: City of Long Beach

Operator: Monterey Pacific Power Corporation

Address: 120 Pier South Avenue, Long Beach 90802

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

SWFP No.: 19-AK-0083

SWFP Issue Date: 03/03/1998

Last 5-year Review Date: 08/27/2009

5-year Review Due Date: 08/27/2014

2. MAXIMUM PERMITTED DAILY CAPACITY

Daily: 2,240 tons (SWFP Requirement)
Yearly: 500,000 tons (Environmental Protection Agency requirement)

3. 2012 AVERAGE WASTE QUANTITIES

Daily Received: 1,510 tpd **Daily Processed:** 1,509 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.

Sunshine Canyon City/County Landfill

1. FACILITY INFORMATION

Owner: Republic Services, Inc. **Operator:** Republic Services, Inc. **Address:** 14747 San Fernando Road, Sylmar 91342 **Operating Days:** Monday-Saturday
SWFP No.: 19-AA-2000 **SWFP Issue Date:** 07/07/2008
Last 5-year Review Date: 07/07/2008 **5-year Review Due Date:** 07/07/2013

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	74,367,562 tons	96,393,470 cubic yards
Estimated Remaining Life:	20 years (based on maximum permitted rate of disposal of 12,100 tpd)	
In-Place Density:	0.77 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	12,100 tons	[15,714 cubic yards]
Yearly Equivalent:	[3,775,200 tons]	[4,902,857 cubic yards]

4. 2012 AVERAGE WASTE QUANTITIES DISPOSED

Daily:	7,221 tons	[9,378 cubic yards]

5. LAND USE/CONDITIONAL USE PERMIT

Permit No.:00-194-(5) **Effective:** 05/24/2007 **Expiration:** 02/06/2037

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: Calculated or assumed quantities are shown in brackets.

Whittier (Savage Canyon) Landfill

1. FACILITY INFORMATION

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

Operator: City of Whittier
Operating Days: Monday-Saturday

SWFP No.: 19-AH-0001
Last 5-year Review Date: 01/27/2009

SWFP Issue Date: 02/28/1995
5-year Review Due Date: 01/27/2014

2. REMAINING PERMITTED CAPACITY (as of December 31, 2012)

Remaining Permitted Capacity:	3,556,023 tons	[5,926,705 cubic yards]
Estimated Remaining Life:	13 years (based on the current SWPF estimated closure date)	
In-Place Density:	0.6 tons/cubic yard	

3. MAXIMUM PERMITTED DAILY CAPACITY

Daily:	350 tons	[584 cubic yards]
Yearly Equivalent:	109,200 tons	[182,000 cubic yards]

4. 2012AVERAGE WASTE QUANTITIES DISPOSED

Daily:	240 tons	[400 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: Calculated or assumed quantities are shown in brackets.

Proposed Expansion

Whittier (Savage Canyon) Landfill Expansion

1. **FACILITY TYPE** - Class III landfill

2. **OWNER/OPERATOR** - City of Whittier

3. **LOCATION** - 13919 E. Penn St., Whittier, CA 90602

4. **SIZE**

Increase in Proposed Disposal Area:	0 acres
Increase in Total Acreage of Site:	0 acres
Increase in Vertical Elevation:	To Be Determined

5. **PROPOSED VOLUMETRIC CAPACITY**

Daily:	350 tons	[584 cubic yards]
Yearly Equivalent:	109,200 tons	[182,000 cubic yards]
Additional Facility Capacity:	[2.63 million tons]	4.4 million cubic yards
In-Place Density:	0.6 tons/cubic yard	

6. **LIFE EXPECTANCY –** An additional 35 years based on the 2011 average daily disposal of 241 tpd or 24 years based on the maximum permitted rate of disposal of 350 tpd.

7. **EXPANSION OPTIONS –** See No. 4 for details

8. **POST-CLOSURE USES -** Open Space

9. **REMARKS/STATUS -** Whittier Landfill is owned and operated by the City of Whittier. The City Public Works Department is proposing to increase the site capacity from approximately 8.1 million cubic yards, as identified in the current SWFP issued on February 28, 1995, to 12.5 million cubic yards. The Local Enforcement Agency received an application for Solid Waste Facility Permit revision on March 2, 2012.

Note: Calculated or assumed quantities are shown in brackets.

Appendix E-2 Tables

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 1
REMAINING PERMITTED DISPOSAL CAPACITY OF EXISTING SOLID WASTE DISPOSAL FACILITIES IN LOS ANGELES COUNTY

Facility	Solid Waste Facility Permit Number	Location City or Unincoporated Area	Permitted Operation days/week	SWFP Maximum Daily Capacity Tons	LUP Maximum Daily Capacity Tons	2012 Annual Disposal (Million Tons) (See Note 1) In-County	Out-of-County	Total	2012 Average Daily Disposal tpd-6 (See Note 1) In-County	Out-of-County	Total	Estimated Remaining Permitted Capacity (as of December 31, 2012) (See Note 2) Million Tons	Million (a) Cubic Yards	Remaining Life (b) Years	Comments
Antelope Valley	19-AA-5624	Palmdale	6	1,800	1,800	0.252	0.004	0.256	808	14	822	16.91	19.95	30	The City of Palmdale approved the expansion and combined Antelope Valley Landfills #1 & #2 on September 19, 2011. The estimated remaining capacity of 16.09 million tons includes an addition of 9 million tons as a result of the expansion.
Burbank	19-AA-0040	Burbank	5	240	---	0.033	0.000	0.033	107	0	107	2.95	5.36	41	Limited to the City of Burbank use only.
Calabasas	19-AA-0056	Unincorporated Area	6	3,500	3,500	0.187	0.011	0.197	599	34	633	5.51	12.34	16	Limited to the Calabasas Wasteshed as defined by Los Angeles County Ordinance No. 91-0003.
Chiquita Canyon	19-AA-0052	Unincorporated Area	6	6,000	6,000	0.906	0.021	0.927	2,903	68	2,971	3.97	6.02	2	Proposed expansion pending. LUP limits waste disposal to 30,000 tons per week.
Lancaster	19-AA-0050	Unincorporated Area	6	3,000	5,100	0.208	0.005	0.213	667	15	682	12.27	14.49	13	New CUP became effective on December 14,2011, which allowed usage of the remaining design capacity of 12.3 million tons.
Pebbly Beach	19-AA-0061	Unincorporated Area	7	49	49	0.003	0.000	0.003	9	0	9	0.09	0.10	16	LUP expires July 29, 2028.
Puente Hills	19-AA-0053	Unincorporated Area	6	13,200	13,200	2.144	0.024	2.168	6,872	78	6,950	6.10	11.09	1	LUP limits waste disposal to 13,200 tons per day. The closure date is scheduled for October 31, 2013.
San Clemente	19-AA-0063	San Clemente Island	2	9.6	---	0.000	0.000	0.000	1	0	1	0.04	0.32	20	Landfill owned and operated by the U.S. Navy.
Scholl Canyon	19-AA-0012	Glendale/ Unincorporated Area	6	3,400	---	0.211	0.000	0.211	675	0	675	3.41	7.01	16	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	12,100	2.217	0.000	2.217	7,107	0	7,107	74.37	96.39	20	The combined Sunshine Canyon City/County Landfill became effective December 31, 2008, based on a memorandum of understanding between the City and County of Los Angeles.
Whittier (Savage Canyon)	19-AH-0001	Whittier	6	350	---	0.078	0.000	0.078	250	0	250	3.56	5.93	13	Limited to use by City of Whittier and waste haulers contracted with the City of Whittier.
TOTAL					41,749	6.239	0.065	6.304	19,997	208	20,205	129.19	367.00	188	
Waste-to-Energy (Transformation) Facilities															
Commerce Refuse To-Energy Facility	19-AA-0506	Commerce	7	1,000	---	0.096	0.006	0.102	308	18	326	466.64 **(c)**	777.73	–	Assumed to remain operational during the 15-year planning period.
Southeast Resource Recovery Facility	19-AK-0083	Long Beach	7	2,240	---	0.433	0.035	0.468	1,386	113	1,499	1,601.96 **(d)**	2,669.94	–	Assumed to remain operational during the 15-year planning period.
TOTAL				3,240		0.529	0.041	0.570	1,695	131	1,825	2,068.60 **(e)**	3,447.67	–	
Permitted Inert Landfills															
Azusa Land Reclamation	19-AA-0013	Azusa	6	6,500	---	0.054	0.035	0.089	172	114	286	64.13	52.13	718	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. Permitted daily capacity of 6,500 tons per day consists of 6,000 tons per day of refuse and 500 tons per day of inert waste. Facility currently accepts inert waste only.
TOTAL				6,500		0.054	0.035	0.089	172	114	286	64.13	52.13		

Out-of-County Disposal	Los Angeles County Waste Exported in 2012 to Out-of-County Class III Disposal Facilities =	1,844,175 tons	or	5,911 tpd-6

NOTES:
1. 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.)
2. Estimated Remaining Permitted Capacity based on landfill owner/operator's response in a written survey conducted by Los Angeles County Department of Public Works in May 2013 as well as site-specific permit criteria established by local land use agencies,

Abbreviation:
LUP Land Use Permit or Conditional Use Permit
SWFP Solid Waste Facility 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) Remaing Life is based on either the 2012 average daily disposal tonnage 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, six days per week.
(d) Based on EPA limit of 500,000 tons per year, expressed as a daily average, six days per week.
(e) Tonnage expressed as a daily average, six days per week.

Source: Los Angeles County Department of Public Works, August 2013

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 2

DISPOSAL CAPACITY OF INERT DEBRIS ENGINEERED FILL OPERATIONS IN LOS ANGELES COUNTY

Facility	Solid Waste Facility Permit	Location	Operation days/week	SWFP Maximum Daily Capacity		2012 Average Daily Disposal [1]		2012 Annual Disposal [2]	
				(cubic yards)[3]	(tpd-6)[3]	(cubic yards)	(tpd-6)	(million cubic yards)	(million tons)
Atkinson Brick Company	N/A	Los Angeles	6	N/A	N/A	178	223	0.06	0.07
Chandler's Palos Verdes Sand & Gravel	19-AE-0004	Rolling Hills Estates	6	1,282	1,603	225	282	0.07	0.09
Durbin Inert Debris Engineered Fill Site	19-AA-1111	Irwindale	5	3,200	4,000	172	215	0.02	0.03
Hanson Aggregates (Livingston-Graham)	19-AA-0044[4]	Irwindale	6	526	657	0	0	0.00	0.00
Lower Azusa Reclamation Project	19-AA-0868	Arcadia	6	3,205	4,006	1,696	2,120	0.53	0.66
Montebello Land & Water Co.	19-AA-0019	Montebello	6	0	1	0	0	0.00	0.00
Nu-Way Arrow	19-AA-1074	Irwindale	6	2,000	2,500	967	1,208	0.30	0.38
Peck Road Gravel Pit	19-AA-0838	Monrovia	6	1,120	1,400	0	0	0.00	0.00
Reliance Landfill	19-AA-0854	Irwindale	6	5,608	7,010	775	969	0.24	0.30
Sun Valley	19-AR-1160	Los Angeles	6	1,215	1,519	1,066	1,333	0.33	0.42
United Rock	19-AA-0046	Irwindale	6	3,077	3,846	0	0	0.00	0.00
TOTAL				21,233	26,541	5,080	6,350	1.55	1.94

NOTES:

1. Disposal quantities for 2012 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 April 2013.
4. Operator submitted an Inactive Notification to LEA on August 2007. The facility was still in-active based on the January 23, 2013 inspection.

Source: Los Angeles County Department of Public Works, August 2013

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 3
OUT-OF-COUNTY LANDFILLS CURRENTLY AVAILABLE FOR USE BY JURISDICTIONS IN LOS ANGELES COUNTY

Facility Location Owner/Operator	Rail Access	Distance from Los Angeles County[1]	2012 Average Daily Disposal Rate (tpd-6)	Potential Available Disposal Capacity from Los Angeles County (tpd)	2012 Average Disposal from Los Angeles County[2,3] (tpd-6)	Operation days/week	Permitted Daily Disposal (tpd-6)	Remaining Permitted Disposal Capacity (million tons)[4]	Remaining Design Life (years)	Tipping Fees[5]	Import Surcharge	Comments
El Sobrante Landfill Riverside County USA Waste Services of California, Inc.	NO	60 miles	6,179	4,000	2640	6	16,054	179	33	$35.12 per ton	$5 per ton	Landfill can accept up to 11,054 tpd from other counties, including Los Angeles County. Remaining capacity and design life are based on the SWFP which was approved by CalRecycle on August 18, 2009.
Frank R. Bowerman Sanitary Landfill[6] Orange County O.C. Waste and Recycling	NO	45 miles	7,123	1,500	158	6	11,500	119	41	$55.37 per ton	0	The County of Orange has three import waste agreements with waste hauling companies to import waste into Orange County. Olinda Alpha Landfill's waste import agreement will expire on June 30, 2016. Frank R. Bowerman and Prima Desecha Landfills' waste import agreement will end on December 31, 2015.
Olinda Alpha Sanitary Landfill[6] Orange County O.C. Waste and Recycling	NO	30 miles	7,633	1,500	1878	6	8,000	27	9	$55.37 per ton	0	
Prima Deshecha Sanitary Landfill[6] Orange County O.C. Waste and Recycling	NO	60 miles	1,678	1,500	60	6	4,000	74	55	$55.37 per ton	0	
Simi Valley Landfill & Recycling Center Ventura County Waste Management of California, Inc.	NO	50 miles	2,124	850	766	7	6,000	94	40	$58.00 per ton	0	Waste Management received all necessary permits to increase the daily maximum disposal tonnage from 3,000 tpd to 6,000 tpd.
Mesquite Regional Landfill Imperial County County Sanitation District No. 2 of Los Angeles County	YES	210 miles	—	12,000	—	—	20,000	582	85	—	$1-$5 per ton	Not yet operational. Permitted to reserve up to 1,000 tpd of available capacity for Imperial County. Up to 4,000 tpd may be transported by truck haul.
TOTAL				21,350	5502							

NOTES:

1. Distance is measured from Downtown Los Angeles, California.
2. Estimated quantity based on the Disposal Reporting System information from the respective Counties.
3. Waste exported to other Out of County landfills accounts for another 409 tons per day. Total Waste exported in 2012 is approximately 5,911 tons per day.
4. Estimated quantity provided by landfill operators in tons, otherwise a conversion factor of 1,200 lb/cy was used.
5. Tipping fees are based on current waste disposal fees provided by landfill operators.
6. Remaining Permitted Disposal Capacity for Frank R. Bowerman Sanitary Landfill, Olinda Alpha Sanitary Landfill, and Prima Deshecha Sanitary Landfill were provided by OC Waste and Recycling Landfill Capacity Data Report as of June 30, 2012.

Source: Los Angeles County Department of Public Works, August 2013

2012 ANNUAL REPORT

LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 4

POPULATION, EMPLOYMENT, AND REAL TAXABLE SALES IN LOS ANGELES COUNTY

YEAR	POPULATION		EMPLOYMENT		REAL TAXABLE SALES	
	(persons)	(millions of persons)	(persons)	(millions of persons)	(dollars)	(billions of dollars)
2012	9,948,000	10	3,840,100	4	114,000,000,000	114.0
2013	10,021,000	10	3,896,400	4	116,600,000,000	116.6
2014	10,104,000	10	3,974,200	4	119,600,000,000	119.6
2015	10,187,000	10	4,050,300	4	122,500,000,000	122.5
2016	10,265,000	10	4,111,600	4	125,300,000,000	125.3
2017	10,339,000	10	4,156,900	4	127,900,000,000	127.9
2018	10,412,000	10	4,188,600	4	130,700,000,000	130.7
2019	10,485,000	10	4,213,500	4	133,500,000,000	133.5
2020	10,557,000	11	4,236,400	4	137,300,000,000	137.3
2021	10,629,000	11	4,255,700	4	137,700,000,000	137.7
2022	10,702,000	11	4,277,200	4	139,600,000,000	139.6
2023	10,777,000	11	4,305,100	4	141,800,000,000	141.8
2024	10,852,000	11	4,342,400	4	144,700,000,000	144.7
2025	10,928,000	11	4,384,700	4	145,800,000,000	145.8
2026	11,004,000	11	4,427,100	4	148,800,000,000	148.8
2027	11,080,000	11	4,468,800	4	151,800,000,000	151.8

Source: UCLA Anderson Longterm Forecast for Los Angeles County, dated July 2012.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-2 TABLE 5
LOS ANGELES COUNTY SOLID WASTE DISPOSAL CAPACITY

A	B	C	D	E	F	G	H	I	J
						CLASS III LANDFILL DISPOSAL NEED			
						ANNUAL		CUMULATIVE (YEAR'S END)	
YEAR	TOTAL GENERATION TONS	PERCENT DIVERSION (ASSUMED)	TOTAL DIVERSION TONS	PROJECTED TRANSFORMATION & CLASS III LANDFILL DISPOSAL (TONS)	AVAILABLE TRANSFORMATION CAPACITY TONS	TONS	CUBIC YARDS	TONS	CUBIC YARDS
2012	21,530,206	60%	12,918,124	8,612,083	645,600	7,966,483	13,277,471	7,966,483	13,277,471
2013	21,900,137	60%	13,140,082	8,760,055	645,600	8,114,455	13,524,091	16,080,937	26,801,562
2014	22,357,705	60%	13,414,623	8,943,082	645,600	8,297,482	13,829,137	24,378,419	40,630,699
2015	22,803,001	60%	13,681,800	9,121,200	645,600	8,475,600	14,126,000	32,854,020	54,756,700
2016	23,202,826	60%	13,921,696	9,281,131	645,600	8,635,531	14,392,551	41,489,550	69,149,251
2017	23,546,415	60%	14,127,849	9,418,566	645,600	8,772,966	14,621,610	50,262,516	83,770,860
2018	23,873,090	60%	14,323,854	9,549,236	645,600	8,903,636	14,839,393	59,166,152	98,610,254
2019	24,183,298	60%	14,509,979	9,673,319	645,600	9,027,719	15,046,199	68,193,871	113,656,452
2020	24,569,938	60%	14,741,963	9,827,975	645,600	9,182,375	15,303,959	77,376,247	128,960,411
2021	24,670,525	60%	14,802,315	9,868,210	645,600	9,222,610	15,371,017	86,598,856	144,331,427
2022	24,899,088	60%	14,939,453	9,959,635	645,600	9,314,035	15,523,392	95,912,892	159,854,819
2023	25,168,209	60%	15,100,925	10,067,283	645,600	9,421,683	15,702,806	105,334,575	175,557,625
2024	25,517,190	60%	15,310,314	10,206,876	645,600	9,561,276	15,935,460	114,895,851	191,493,085
2025	25,731,750	60%	15,439,050	10,292,700	645,600	9,647,100	16,078,500	124,542,951	207,571,585
2026	26,101,533	60%	15,660,920	10,440,613	645,600	9,795,013	16,325,022	134,337,964	223,896,607
2027	26,469,621	60%	15,881,773	10,587,849	645,600	9,942,249	16,570,414	144,280,213	240,467,022

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.
2. Waste generation for 2012 is based on actual in-County and out-of-County transformation and Class III landfill disposal by jurisdictions in Los Angeles County. A 60 percent diversion rate is assumed. These tonnages DO NOT include inert waste disposed at permitted inert landfills.
3. The 2012 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 County of Los Angeles Department of Public Works as part of the 2012 Disposal Quantity Reporting data.
4. Columns H and J are based on Columns G and I, respectively, using an in-place waste density of 1,200 lb/cy.

Source: County of Los Angeles Department of Public Works, August 2013

Appendix E-3
Comparison of Daily Disposal Demand and SB 1016 Limit

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-3

BASE YEAR PROJECTIONS BASED ON SB 1016 LIMIT

Year	Generation (Annual Tons)	Population	Per Capita Generation (Lbs/Resident/Day)
2003	23,798,794	9,767,000	13.35
2004	23,933,735	9,793,000	13.39
2005	24,623,753	9,786,000	13.79
2006	23,614,933	9,738,000	13.29
Four-year Average of Generation:			13.45
Diversion Requirement Level:			50%
Per Capita Disposal Limit:			**6.73**
Per Capita Transformation Credit Cap (=10% x 13.45):			1.35

Year	Disposal (Annual Tons)	Population	Per Capita Disposal without Transformation Credit (Lbs/Resident/Day)
2012	8,612,083	9,948,000	**4.74**

Transformation (Annual Tons)	Transformation Credit (Lbs/Resident/Day)	Per Capita Disposal with Transformation Credit (Lbs/Resident/Day)
528,765	0.29	4.45
Is the per capita disposal less than the per capita disposal limit?		**Yes**

Note: Per Capita Generation = $\frac{\text{(Generation)*(2000 lb/ton)}}{\text{(Population)*(365 days)}}$

Per Capita Disposal Limit = (Four-Year Avg of Generation)*(1-Diversion Requirement Level)

Source: Los Angeles County Department of Public Works, August 2013

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-3
COMPARISON OF DAILY DISPOSAL DEMAND AND SB 1016 DISPOSAL LIMIT
Status Quo

Daily Disposal Demand						SB 1016 Disposal Limit		
Year	Total Annual Waste Generation[1]	Diversion Rate[2] Status Quo	Total Annual Waste Disposal	Los Angeles County Population[3]	SB 1016 Per Capita Disposal	SB 1016 Per Capita Disposal Limit[2]	SB 1016 Annual Disposal Limit (yearly)	Minimum Diversion Rate Equivalent To Meet SB 1016
	A	**B**	**C = A*(1 - B)**	**D**	**E = (C*2000lb/ton)/(D*365 days)**	**F**	**G = (D*F*365days)/(2000lb/ton)**	**I = (1 - G/A)*100**
	(tons)			(Residents)	(lb/res/day)	(lb/res/day)	(tons)	
2012	21,530,206	60%	8,612,083	9,948,000	4.744	6.73	12,218,382	43%
2013	21,900,137	60%	8,760,055	10,021,000	4.790	6.73	12,308,043	44%
2014	22,357,705	60%	8,943,082	10,021,000	4.890	6.73	12,308,043	45%
2015	22,803,001	60%	9,121,200	10,187,000	4.906	6.73	12,511,928	45%
2016	23,202,826	60%	9,281,131	10,265,000	4.954	6.73	12,607,730	46%
2017	23,546,415	60%	9,418,566	10,339,000	4.992	6.73	12,698,618	46%
2018	23,873,090	60%	9,549,236	10,412,000	5.025	6.73	12,788,279	46%
2019	24,183,298	60%	9,673,319	10,485,000	5.055	6.73	12,877,939	47%
2020	24,569,938	60%	9,827,975	10,557,000	5.101	6.73	12,966,371	47%
2021	24,670,525	60%	9,868,210	10,629,000	5.087	6.73	13,054,804	47%
2022	24,899,088	60%	9,959,635	10,702,000	5.099	6.73	13,144,464	47%
2023	25,168,209	60%	10,067,283	10,777,000	5.119	6.73	13,236,581	47%
2024	25,517,190	60%	10,206,876	10,852,000	5.154	6.73	13,328,698	48%
2025	25,731,750	60%	10,292,700	10,928,000	5.161	6.73	13,422,043	48%
2026	26,101,533	60%	10,440,613	11,004,000	5.199	6.73	13,515,388	48%
2027	26,469,621	60%	10,587,849	11,080,000	5.236	6.73	13,608,733	49%

Footnotes:

1. Waste Generation is estimated using CalRecycle's Adjustment Methodology, utilizing population projection, employment and taxable sales projections from UCLA Long term Forecast, August 2013.
2. Per Capita Disposal Limit is based on 2003-2006 Base Year Projections on SB 1016 Limit.
3. Los Angeles Countywide Population Projection (UCLA, Long Term Forecast of Los Angeles County, August 2013)

Source: Los Angeles County Department of Public Works, August 2013

Appendix E-4 Disposal Capacity Analysis Scenarios

APPENDIX E-4
SCENARIO I - STATUS QUO

• **Existing In-County Class III Landfills and Transformation Facilities**

• **Current Available Out-of-County Disposal Capacity**

							1	2	3	4	5	6	7	8	9	10	11	Total			
							IN-COUNTY CLASS III LANDFILLS														
Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	R San Clemente	R Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
							Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F=C+D-E												G	H=F-G	I	J=H-I
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9 0.1	13,200 6,872 6.1	10 1 0.04	3,400 675 3.4	11,000 7,107 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	60%	28,077	500	2,069	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	27,295	1,800 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 4,000 1.8	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 3.4	23,499	3,797	6,200	(2,403)
2015	73,087	60%	29,235	700	2,069	27,866	1,800 1,100 16.0	240 113 2.8	3,500 633 4.9	6,000 4,500 0.4	3,000 900 11.5	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 3.3	23,534	4,332	6,200	(1,868)
2016	74,368	60%	29,747	700	2,069	28,379	1,800 1,200 15.6	240 115 2.8	3,500 644 4.7	6,000 5,000 **CC**	3,000 1,000 11.2	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 3.2	23,566	4,813	6,200	(1,387)
2017	75,469	60%	30,188	700	2,069	28,819	1,800 1,300 15.2	240 117 2.8	3,500 654 4.5		3,000 1,100 10.9	49 10 0.08		10 1.39 0.04	3,400 738 2.3	11,000 11,000 59.1	350 273 3.1	17,593	11,226	6,200	5,026
2018	76,516	60%	30,607	700	2,069	29,238	1,800 1,400 14.8	240 118 2.7	3,500 664 4.3		3,000 1,200 10.5	49 10 0.07		10 1.41 0.04	3,400 748 2.1	11,000 11,000 55.6	350 277 3.1	17,620	11,618	6,200	5,418
2019	77,511	60%	31,004	700	2,069	29,636	1,800 1,500 14.3	240 120 2.7	3,500 673 4.1	**CP**	3,000 1,200 10.1	49 10 0.07		10 1.43 0.04	3,400 759 1.8	11,000 11,000 52.2	350 281 3.0	17,644	11,991	6,200	5,791
2020	78,750	60%	31,500	700	2,069	30,131	1,800 1,600 13.8	240 122 2.7	3,500 684 3.9		3,000 1,200 9.7	49 11 0.07		10 1.46 0.04	3,400 771 1.6	11,000 11,000 48.8	350 285 2.9	17,675	12,456	6,200	6,256
2021	79,072	60%	31,629	700	2,069	30,260	1,800 1,700 13.3	240 123 2.6	3,500 687 3.7		3,000 1,200 9.4	49 11 0.06		10 1.46 0.04	3,400 775 1.3	11,000 11,000 45.4	350 287 2.8	17,683	12,577	6,200	6,377
2022	79,805	60%	31,922	700	2,069	30,553	1,800 1,800 12.7	240 124 2.6	3,500 694 3.5		3,000 1,200 9.0	49 11 0.06		10 1.48 0.03	3,400 782 1.1	11,000 11,000 41.9	350 289 2.7	17,701	12,852	6,200	6,652
2023	80,667	60%	32,267	700	2,069	30,898	1,800 1,800 12.1	240 125 2.5	3,500 702 3.3		3,000 1,200 8.6	49 11 0.06		10 1.50 0.03	3,400 791 0.9	11,000 11,000 38.5	350 293 2.6	17,723	13,175	6,200	6,975
2024	81,786	60%	32,714	700	2,069	31,346	1,800 1,800 11.6	240 127 2.5	3,500 712 3.0		3,000 1,200 8.2	49 11 0.05		10 1.52 0.03	3,400 802 0.6	11,000 11,000 35.1	350 297 2.5	17,751	13,595	6,200	7,395
2025	82,474	60%	32,989	700	2,069	31,621	1,800 1,800 11.0	240 128 2.5	3,500 718 **CP**		3,000 1,200 7.9	49 11 0.05		10 1.53 0.03	3,400 809 0.4	11,000 11,000 31.6	350 300 2.4	17,768	13,853	6,200	7,653
2026	83,659	60%	33,464	700	2,069	32,095	1,800 1,800 10.5	240 130 2.4			3,000 1,200 7.5	49 11 0.05		10 1.55 0.03	3,400 821 0.1	11,000 11,000 28.2	350 304 2.3	17,068	15,026	6,200	8,826
2027	84,839	60%	33,935	700	2,069	32,567	1,800 1,800 9.9	240 132 2.4			3,000 1,200 7.1	49 11 0.04		10 1.58 0.03	3,400 834 **CC**	11,000 11,000 24.8	350 308 2.2	17,087	15,480	6,200	9,280

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO II - INCREASE IN DIVERSION RATE (Up to 65% by 2025)

- **Existing In-County Class III Landfills and Transformation Facilities**
- **Current Available Out-of-County Disposal Capacity**
- **Increase In Diversion (up to 65% by 2025)**

							1	2	3	4	5	6	7	8	9	10	11	Total			
							IN-COUNTY CLASS III LANDFILLS														
Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Class III Landfill Daily Disposal Demand	Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	R San Clemente	R Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
							Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F=C+D-E												G	H=F-G	I	J=H-I
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,107 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	60%	28,077	500	2,069	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	27,295	1,800 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 3,006 2.1	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 3.4	23,499	3,797	6,200	(2,403)
2015	73,087	60%	29,235	700	2,069	27,866	1,800 1,100 16.0	240 113 2.8	3,500 633 4.9	6,000 3,069 1.2	3,000 900 11.5	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 3.3	23,534	4,332	6,200	(1,868)
2016	74,368	60%	29,747	700	2,069	28,379	1,800 1,200 15.6	240 115 2.8	3,500 644 4.7	6,000 3,125 0.2	3,000 1,000 11.2	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 3.2	23,566	4,813	6,200	(1,387)
2017	75,469	60%	30,188	700	2,069	28,819	1,800 1,300 15.2	240 117 2.8	3,500 654 4.5	6,000 3,174 **CC**	3,000 1,100 10.9	49 10 0.08		10 1.39 0.04	3,400 738 2.3	11,000 11,000 59.1	350 273 3.1	23,593	5,226	6,200	(974)
2018	76,516	60%	30,607	700	2,069	29,238	1,800 1,400 14.8	240 118 2.7	3,500 664 4.3		3,000 1,200 10.5	49 10 0.07		10 1.41 0.04	3,400 748 2.1	11,000 11,000 55.6	350 277 3.1	17,620	11,618	6,200	5,418
2019	77,511	60%	31,004	700	2,069	29,636	1,800 1,500 14.3	240 120 2.7	3,500 673 4.1	 **CP**	3,000 1,200 10.1	49 10 0.07		10 1.43 0.04	3,400 759 1.8	11,000 11,000 52.2	350 281 3.0	17,644	11,991	6,200	5,791
2020	78,750	60%	31,500	700	2,069	30,131	1,800 1,600 13.8	240 122 2.7	3,500 684 3.9		3,000 1,200 9.7	49 11 0.07		10 1.46 0.04	3,400 771 1.6	11,000 11,000 48.8	350 285 2.9	17,675	12,456	6,200	6,256
2021	79,072	61%	30,838	700	2,069	29,470	1,800 1,700 13.3	240 119 2.6	3,500 669 3.7		3,000 1,200 9.4	49 10 0.06		10 1.43 0.04	3,400 754 1.4	11,000 11,000 45.4	350 279 2.8	17,634	11,836	6,200	5,636
2022	79,805	62%	30,326	700	2,069	28,957	1,800 1,800 12.7	240 117 2.6	3,500 658 3.5		3,000 1,200 9.0	49 10 0.06		10 1.40 0.04	3,400 741 1.1	11,000 11,000 41.9	350 274 2.7	17,602	11,355	6,200	5,155
2023	80,667	63%	29,847	700	2,069	28,478	1,800 1,800 12.1	240 115 2.6	3,500 647 3.3		3,000 1,200 8.6	49 10 0.06		10 1.38 0.03	3,400 729 0.9	11,000 11,000 38.5	350 270 2.6	17,572	10,906	6,200	4,706
2024	81,786	64%	29,443	700	2,069	28,074	1,800 1,800 11.6	240 114 2.5	3,500 638 3.1		3,000 1,200 8.2	49 10 0.06		10 1.36 0.03	3,400 719 0.7	11,000 11,000 35.1	350 266 2.5	17,547	10,527	6,200	4,327
2025	82,474	65%	28,866	700	2,069	27,497	1,800 1,800 11.0	240 111 2.5	3,500 624 **CP**		3,000 1,200 7.9	49 10 0.05		10 1.33 0.03	3,400 704 0.4	11,000 11,000 31.6	350 260 2.5	17,511	9,986	6,200	3,786
2026	83,659	65%	29,281	700	2,069	27,912	1,800 1,800 10.5	240 113 2.4			3,000 1,200 7.5	49 10 0.05		10 1.35 0.03	3,400 714 0.2	11,000 11,000 28.2	350 264 2.4	16,903	11,009	6,200	4,809
2027	84,839	65%	29,693	700	2,069	28,325	1,800 1,800 9.9	240 240 2.4			3,000 1,200 7.1	49 10 0.0		10 1.37 0.03	3,400 725 0.00	11,000 11,000 24.8	350 268 2.3	17,045	11,280	6,200	5,080

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO III - UTILIZATION OF ALTERNATIVE TECHNOLOGY CAPACITY (UP TO 2,300 TPD BY 2021)

- **Existing In-County Class III Landfills and Transformation Facilities**
- **Current Available Out-of-County Disposal Capacity**
- **Increase In Diversion Rate (up to 65% by 2025)**
- **Utilization of Alternative Technology Capacity (Up to 2,300 tpd by 2021)**

Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	1 Antelope Valley	2 R Burbank	3 R Calabasas	4 Chiquita	5 Lancaster	6 Pebbly Beach	7 Puente Hills	8 R San Clemente	9 R Scholl	10 Sunshine City/County Combined	11 R Whittier (Savage Canyon)	Total Daily Available Capacity[2] from Class III Landfills	Export Need	Available Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								IN-COUNTY CLASS III LANDFILLS														
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.1	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	60%	28,077	500	2,069	0	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	0	27,295	1,800 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 3,006 2.1	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 3.4	23,499	3,797	6,200	(2,403)
2015	73,087	60%	29,235	700	2,069	0	27,866	1,800 1,100 16.0	240 113 2.8	3,500 633 4.9	6,000 3,069 1.2	3,000 900 11.5	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 3.3	23,534	4,332	6,200	(1,868)
2016	74,368	60%	29,747	700	2,069	0	28,379	1,800 1,200 15.6	240 115 2.8	3,500 644 4.7	6,000 3,125 0.2	3,000 1,000 11.2	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 3.2	23,566	4,813	6,200	(1,387)
2017	75,469	60%	30,188	700	2,069	1,300	27,519	1,800 1,300 15.2	240 112 2.8	3,500 625 4.5	6,000 3,031 **CC**	3,000 1,100 10.9	49 10 0.08		10 1.33 0.04	3,400 704 2.3	11,000 11,000 59.1	350 261 3.1	23,513	4,007	6,200	(2,193)
2018	76,516	60%	30,607	700	2,069	1,300	27,938	1,800 1,400 14.8	240 113 2.7	3,500 634 4.3		3,000 1,200 10.5	49 10 0.07		10 1.35 0.04	3,400 715 2.1	11,000 11,000 55.6	350 265 3.1	17,539	10,399	6,200	4,199
2019	77,511	60%	31,004	700	2,069	1,300	28,336	1,800 1,500 14.3	240 115 2.7	3,500 643 4.1	**CP**	3,000 1,200 10.1	49 10 0.07		10 1.37 0.04	3,400 725 1.9	11,000 11,000 52.2	350 268 3.0	17,563	10,772	6,200	4,572
2020	78,750	60%	31,500	700	2,069	1,300	28,831	1,800 1,600 13.8	240 117 2.7	3,500 655 3.9		3,000 1,200 9.7	49 10 0.07		10 1.40 0.04	3,400 738 1.6	11,000 11,000 48.8	350 273 2.9	17,594	11,237	6,200	5,037
2021	79,072	61%	30,838	700	2,069	2,300	27,170	1,800 1,700 13.3	240 110 2.6	3,500 617 3.7		3,000 1,200 9.4	49 10 0.07		10 1.31 0.04	3,400 695 1.4	11,000 11,000 45.4	350 257 2.8	17,491	9,679	6,200	3,479
2022	79,805	62%	30,326	700	2,069	2,300	26,657	1,800 1,800 12.7	240 108 2.6	3,500 605 3.6		3,000 1,200 9.0	49 9 0.06		10 1.29 0.04	3,400 682 1.2	11,000 11,000 41.9	350 253 2.7	17,459	9,198	6,200	2,998
2023	80,667	63%	29,847	700	2,069	2,300	26,178	1,800 1,800 12.1	240 106 2.6	3,500 594 3.4		3,000 1,200 8.6	49 9 0.06		10 1.27 0.03	3,400 670 1.0	11,000 11,000 38.5	350 248 2.7	17,429	8,749	6,200	2,549
2024	81,786	64%	29,443	700	2,069	2,300	25,774	1,800 1,800 11.6	240 104 2.5	3,500 585 3.2		3,000 1,200 8.2	49 9 0.06		10 1.25 0.03	3,400 660 0.8	11,000 11,000 35.1	350 244 2.6	17,404	8,370	6,200	2,170
2025	82,474	65%	28,866	700	2,069	2,300	25,197	1,800 1,800 11.0	240 102 2.5	3,500 572 **CP**		3,000 1,200 7.9	49 9 0.05		10 1.22 0.03	3,400 645 0.6	11,000 11,000 31.6	350 239 2.5	17,368	7,829	6,200	1,629
2026	83,659	65%	29,281	700	2,069	2,300	25,612	1,800 1,800 10.5	240 104 2.5			3,000 1,200 7.5	49 9 0.05		10 1.24 0.03	3,400 656 0.4	11,000 11,000 28.2	350 243 2.4	16,812	8,800	6,200	2,600
2027	84,839	65%	29,693	700	2,069	2,300	26,025	1,800 1,800 9.9	240 105 2.4			3,000 1,200 7.1	49 9 0.05		10 1.26 0.03	3,400 666 **C**	11,000 11,000 24.8	350 247 2.4	16,829	9,196	6,200	2,996

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO IV - IN-COUNTY CLASS III LANDFILLS EXPANSIONS

- **Existing In-County Class III Landfills &Transformation Facilities**
- **Utilization of Alternative Technology Capacity (up to 2,300 tpd by 2021)**
- **Current Available Out-of-County Disposal Capacity**
- **Proposed Expansions of In-County Class III Landfills**
- **Increase In Diversion Rate (up to 65% by 2025)**

Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Total	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								1	2	3	4	5	6	7	8	9	10	11				
								Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	R San Clemente	R Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills			
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	60%	28,077	500	2,069	0	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	0	27,295	1,800 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 4,000 1.8	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 6.0 **E**	23,499	3,797	6,200	(2,403)
2015	73,087	60%	29,235	700	2,069	0	27,866	1,800 1,100 16.0	240 113 2.8	3,500 633 4.9	6,000 5,000 0.3	3,000 900 11.5	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 5.9	23,534	4,332	6,200	(1,868)
2016	74,368	60%	29,747	700	2,069	0	28,379	1,800 1,200 15.6	240 115 2.8	3,500 644 4.7	12,000 6,000 57.9 **E**	3,000 1,000 11.2	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 5.9	29,566	(1,187)	6,200	(7,387)
2017	75,469	60%	30,188	700	2,069	1,300	27,519	1,800 1,300 15.2	240 112 2.8	3,500 625 4.5	12,000 7,000 55.7	3,000 1,100 10.9	49 10 0.08		10 1.33 0.04	3,400 704 2.3	11,000 11,000 59.1	350 261 5.8	29,513	(1,993)	6,200	(8,193)
2018	76,516	60%	30,607	700	2,069	1,300	27,938	1,800 1,400 14.8	240 113 2.7	3,500 634 4.3	12,000 8,000 53.2	3,000 1,200 10.5	49 10 0.07		10 1.35 0.04	3,400 715 2.1	11,000 11,000 55.6	350 265 5.7	29,539	(1,601)	6,200	(7,801)
2019	77,511	60%	31,004	700	2,069	1,300	28,336	1,800 1,500 14.3	240 115 2.7	3,500 643 4.1	12,000 9,000 50.4	3,000 1,200 10.1	49 10 0.07		10 1.37 0.04	3,400 725 1.9	11,000 11,000 52.2	350 268 5.6	29,563	(1,228)	6,200	(7,428)
2020	78,750	60%	31,500	700	2,069	1,300	28,831	1,800 1,600 13.8	240 117 2.7	3,500 655 3.9	12,000 10,000 47.3	3,000 1,200 9.7	49 10 0.07		10 1.40 0.04	3,400 738 7.6 **E**	11,000 11,000 48.8	350 273 5.5	29,594	(763)	6,200	(6,963)
2021	79,072	61%	30,838	700	2,069	2,300	27,170	1,800 1,700 13.3	240 110 2.6	3,500 617 3.7	12,000 11,000 43.8	3,000 1,200 9.4	49 10 0.07		10 1.31 0.04	3,400 695 7.4	11,000 11,000 45.4	350 257 5.5	29,491	(2,321)	6,200	(8,521)
2022	79,805	62%	30,326	700	2,069	2,300	26,657	1,800 1,800 12.7	240 108 2.6	3,500 605 3.6	12,000 12,000 40.1	3,000 1,200 9.0	49 9 0.06		10 1.29 0.04	3,400 682 7.2	11,000 11,000 41.9	350 253 5.4	29,459	(2,802)	6,200	(9,002)
2023	80,667	63%	29,847	700	2,069	2,300	26,178	1,800 1,800 12.1	240 106 2.6	3,500 594 3.4	12,000 12,000 36.4	3,000 1,200 8.6	49 9 0.06		10 1.27 0.03	3,400 670 7.0	11,000 11,000 38.5	350 248 5.3	29,429	(3,251)	6,200	(9,451)
2024	81,786	64%	29,443	700	2,069	2,300	25,774	1,800 1,800 11.6	240 104 2.5	3,500 585 3.2	12,000 12,000 32.6	3,000 1,200 8.2	49 9 0.06		10 1.25 0.03	3,400 660 6.8	11,000 11,000 35.1	350 244 5.2	29,404	(3,630)	6,200	(9,830)
2025	82,474	65%	28,866	700	2,069	2,300	25,197	1,800 1,800 11.0	240 102 2.5	3,500 572 **CP**	12,000 12,000 28.9	3,000 1,200 7.9	49 9 0.05		10 1.22 0.03	3,400 645 6.6	11,000 11,000 31.6	350 239 5.1	29,368	(4,171)	6,200	(10,371)
2026	83,659	65%	29,281	700	2,069	2,300	25,612	1,800 1,800 10.5	240 104 2.5		12,000 12,000 25.1	3,000 1,200 7.5	49 9 0.05		10 1.24 0.03	3,400 656 6.38	11,000 11,000 28.2	350 243 5.1	28,812	(3,200)	6,200	(9,400)
2027	84,839	65%	29,693	700	2,069	2,300	26,025	1,800 1,800 9.9	240 105 2.4		12,000 12,000 21.4	3,000 1,200 7.1	49 9 0.05		10 1.26 0.03	3,400 666 6.17	11,000 11,000 24.8	350 247 5.0	28,829	(2,804)	6,200	(9,004)

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO V - INCREASE IN AVAILABLE OUT-OF-COUNTY DISPOSAL CAPACITY

- **Existing In-County Class III Landfills & Transformation Facilities**
- **Increase In Available Out-of-County Disposal Capacity**
- **Current Available Out-of-County Disposal Capacity**
- **Utilization of Alternative Technology Capacity (up to 2,300 tpd by 2021)**
- **Increase In Diversion Rate (up to 65% by 2025)**

								1	2	3	4	5	6	7	8	9	10	11	Total			
								IN-COUNTY CLASS III LANDFILLS														
Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	R San Clemente	R Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	—
2013	70,193	60%	28,077	500	2,069	0	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	0	27,295	3,600 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 4,000 1.8	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 6.0 **E**	25,299	1,997	7,500	(5,503)
2015	73,087	60%	29,235	700	2,069	0	27,866	3,600 1,100 16.0	240 113 2.8	3,500 633 4.9	12,000 5,000 0.3	3,000 900 12.3	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 5.9	31,334	(3,468)	10,000	(13,468)
2016	74,368	60%	29,747	700	2,069	0	28,379	3,600 1,200 15.6	240 115 2.8	3,500 644 4.7	12,000 6,000 57.9 **E**	3,000 1,000 12.0	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 5.9	31,366	(2,987)	10,000	(12,987)
2017	75,469	60%	30,188	700	2,069	1,300	27,519	3,600 1,300 15.2	240 112 2.8	3,500 625 4.5	12,000 7,000 55.7	3,000 1,100 11.7	49 10 0.08		10 1.33 0.04	3,400 704 2.3	11,000 11,000 59.1	350 261 5.8	31,313	(3,793)	10,000	(13,793)
2018	76,516	60%	30,607	700	2,069	1,300	27,938	3,600 1,400 14.8	240 113 2.7	3,500 634 4.3	12,000 8,000 53.2	3,000 1,200 11.3	49 10 0.07		10 1.35 0.04	3,400 715 2.1	11,000 11,000 55.6	350 265 5.7	31,339	(3,401)	10,000	(13,401)
2019	77,511	60%	31,004	700	2,069	1,300	28,336	3,600 1,500 14.3	240 115 2.7	3,500 643 4.1	12,000 9,000 50.4	3,000 1,200 10.9	49 10 0.07		10 1.37 0.04	3,400 725 1.9	11,000 11,000 52.2	350 268 5.6	31,363	(3,028)	10,000	(13,028)
2020	78,750	60%	31,500	700	2,069	1,300	28,831	3,600 1,600 13.8	240 117 2.7	3,500 655 3.9	12,000 10,000 47.3	3,000 1,200 10.6	49 10 0.07		10 1.40 0.04	3,400 738 7.6 **E**	11,000 11,000 48.8	350 273 5.5	31,394	(2,563)	12,000	(14,563)
2021	79,072	61%	30,838	700	2,069	2,300	27,170	3,600 1,700 13.3	240 110 2.6	3,500 617 3.7	12,000 11,000 43.8	3,000 1,200 10.2	49 10 0.07		10 1.31 0.04	3,400 695 7.4	11,000 11,000 45.4	350 257 5.5	31,291	(4,121)	12,000	(16,121)
2022	79,805	62%	30,326	700	2,069	2,300	26,657	3,600 1,800 12.7	240 108 2.6	3,500 605 3.6	12,000 12,000 40.1	3,000 1,200 9.8	49 9 0.06		10 1.29 0.04	3,400 682 7.2	11,000 11,000 41.9	350 253 5.4	31,259	(4,602)	12,000	(16,602)
2023	80,667	63%	29,847	700	2,069	2,300	26,178	3,600 1,800 12.1	240 106 2.6	3,500 594 3.4	12,000 12,000 36.4	3,000 1,200 9.4	49 9 0.06		10 1.27 0.03	3,400 670 7.0	11,000 11,000 38.5	350 248 5.3	31,229	(5,051)	12,000	(17,051)
2024	81,786	64%	29,443	700	2,069	2,300	25,774	3,600 1,800 11.6	240 104 2.5	3,500 585 3.2	12,000 12,000 32.6	3,000 1,200 9.1	49 9 0.06		10 1.25 0.03	3,400 660 6.8	11,000 11,000 35.1	350 244 5.2	31,204	(5,430)	12,000	(17,430)
2025	82,474	65%	28,866	700	2,069	2,300	25,197	3,600 1,800 11.0	240 102 2.5	3,500 572 **CP**	12,000 12,000 28.9	3,000 1,200 8.7	49 9 0.05		10 1.22 0.03	3,400 645 6.6	11,000 11,000 31.6	350 239 5.1	31,168	(5,971)	12,000	(17,971)
2026	83,659	65%	29,281	700	2,069	2,300	25,612	3,600 1,800 10.5	240 104 2.5		12,000 12,000 25.1	3,000 1,200 8.3	49 9 0.05		10 1.24 0.03	3,400 656 6.4	11,000 11,000 28.2	350 243 5.1	30,612	(5,000)	12,000	(17,000)
2027	84,839	65%	29,693	700	2,069	2,300	26,025	3,600 1,800 9.9	240 105 2.4		12,000 12,000 21.4	3,000 1,200 7.9	49 9 0.05		10 1.26 0.03	3,400 666 6.2	11,000 11,000 24.8	350 247 5.0	30,629	(4,604)	12,000	(16,604)

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO VI - MAXIMIZING DIVERSION RATE (UP TO 75% BY 2020, COMPLIES WITH AB 341 GOAL)

- **Existing In-County Class III Landfills & Transformation Facilities**
- **Proposed Expansions of In-County Class III Landfil**
- **Maximizing Diversion Rate up to 75% by 2020**
- **Increase In Available Out-of-County Disposal Capacity**
- **Utilization of Alternative Technology Capacity (up to 2,300 tpd by 2021)**

								1	2	3	4	5	6	7	8	9	10	11	Total			
								IN-COUNTY CLASS III LANDFILLS														
Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	R San Clemente	R Scholl	Sunshine City/County Combined	R Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	61%	27,375	500	2,069	0	25,807	1,800 900 16.6	240 105 2.9	3,500 586 5.3	6,000 2,842 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.25 0.04	3,400 661 3.2	11,000 8,000 71.9	350 244 3.5	36,606	(10,799)	6,200	(16,999)
2014	71,659	63%	26,514	700	2,069	0	25,145	1,800 1,000 16.3	240 102 2.9	3,500 571 5.2	6,000 4,000 1.8	3,000 800 11.8	49 9 0.09		10 1.22 0.04	3,400 644 3.0	11,000 9,000 69.1	350 238 6.0 **E**	23,365	1,781	7,500	(5,719)
2015	73,087	65%	25,580	700	2,069	0	24,212	1,800 1,100 16.0	240 98 2.9	3,500 550 5.0	12,000 5,000 0.3	3,000 900 12.3	49 9 0.08		10 1.17 0.04	3,400 620 2.8	11,000 10,000 65.9	350 229 6.0	29,307	(5,095)	10,000	(15,095)
2016	74,368	67%	24,541	700	2,069	0	23,173	1,800 1,200 15.6	240 94 2.8	3,500 526 4.8	12,000 6,000 57.9 **E**	3,000 1,000 12.0	49 8 0.08		10 1.12 0.04	3,400 593 2.6	11,000 11,000 62.5	350 220 5.9	29,242	(6,069)	10,000	(16,069)
2017	75,469	69%	23,395	700	2,069	1,300	20,727	1,800 1,300 15.2	240 84 2.8	3,500 471 4.7	12,000 7,000 55.7	3,000 1,100 11.7	49 7 0.08		10 1.00 0.04	3,400 531 2.5	11,000 11,000 59.1	350 196 5.8	29,090	(8,363)	10,000	(18,363)
2018	76,516	71%	22,190	700	2,069	1,300	19,521	1,800 1,400 14.8	240 79 2.8	3,500 443 4.5	12,000 8,000 53.2	3,000 1,200 11.3	49 7 0.08		10 0.94 0.04	3,400 500 2.3	11,000 11,000 55.6	350 185 5.8	29,015	(9,494)	10,000	(19,494)
2019	77,511	73%	20,928	700	2,069	1,300	18,259	1,800 1,500 14.3	240 74 2.8	3,500 415 4.4	12,000 9,000 50.4	3,000 1,200 10.9	49 6 0.08		10 0.88 0.04	3,400 467 2.2	11,000 11,000 52.2	350 173 5.7	28,936	(10,677)	10,000	(20,677)
2020	78,750	75%	19,687	700	2,069	1,300	17,019	1,800 1,600 13.8	240 69 2.7	3,500 386 4.3	12,000 10,000 47.3	3,000 1,200 10.6	49 6 0.07		10 0.82 0.04	3,400 436 8.0 **E**	11,000 11,000 48.8	350 161 5.7	28,859	(11,840)	12,000	(23,840)
2021	79,072	75%	19,768	700	2,069	2,300	16,099	1,800 1,700 13.3	240 65 2.7	3,500 366 4.2	12,000 11,000 43.9	3,000 1,200 10.2	49 6 0.07		10 0.78 0.04	3,400 412 7.9	11,000 11,000 45.4	350 153 5.6	28,802	(12,702)	12,000	(24,702)
2022	79,805	75%	19,951	700	2,069	2,300	16,283	1,800 1,800 12.7	240 66 2.7	3,500 370 4.1	12,000 12,000 40.1	3,000 1,200 9.8	49 6 0.07		10 0.79 0.04	3,400 417 7.8	11,000 11,000 41.9	350 154 5.6	28,813	(12,531)	12,000	(24,531)
2023	80,667	75%	20,167	700	2,069	2,300	16,498	1,800 1,800 12.1	240 67 2.7	3,500 375 3.9	12,000 12,000 36.4	3,000 1,200 9.4	49 6 0.07		10 0.80 0.04	3,400 422 7.6	11,000 11,000 38.5	350 156 5.5	28,827	(12,328)	12,000	(24,328)
2024	81,786	75%	20,446	700	2,069	2,300	16,778	1,800 1,800 11.6	240 68 2.6	3,500 381 3.8	12,000 12,000 32.6	3,000 1,200 9.1	49 6 0.07		10 0.81 0.04	3,400 429 7.5	11,000 11,000 35.1	350 159 5.5	28,844	(12,066)	12,000	(24,066)
2025	82,474	75%	20,618	700	2,069	2,300	16,950	1,800 1,800 11.0	240 69 2.6	3,500 385 **CP**	12,000 12,000 28.9	3,000 1,200 8.7	49 6 0.06		10 0.82 0.04	3,400 434 7.4	11,000 11,000 31.6	350 161 5.4	28,855	(11,905)	12,000	(23,905)
2026	83,659	75%	20,915	700	2,069	2,300	17,246	1,800 1,800 10.5	240 70 2.6		12,000 12,000 25.1	3,000 1,200 8.3	49 6 0.06		10 0.83 0.04	3,400 441 7.2	11,000 11,000 28.2	350 163 5.4	28,482	(11,236)	12,000	(23,236)
2027	84,839	75%	21,210	700	2,069	2,300	17,541	1,800 1,800 9.9	240 71 2.6		12,000 12,000 21.4	3,000 1,200 7.9	49 6 0.06		10 0.85 0.03	3,400 449 7.1	11,000 11,000 24.8	350 166 5.3	28,493	(10,952)	12,000	(22,952)

ASSUMPTIONS:

1. Waste Generation is estimated using CalRecyle's Adjustment Methodology, utilizing population projection, employment and real taxable sales projections from UCLA's Longterm Forecast, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO VII - INCREASE IN ALTERNATIVE TECHNOLOGY CAPACITY (UP TO 3,500 TPD BY 2024)

- **Existing In-County Class III Landfills & Transformation Facilities**
- **Proposed Expansions of In-County Class III**
- **Increase In Diversion Rate up to 65% by 2025**
- **Increase In Available Out-of-County Disposal Capacity**
- **Increase In Alternative Technology Capacity (up to 3,500 tpd by 2024)**

Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	1	2	3	4	5	6	7	8	9	10	11	Total			
								IN-COUNTY CLASS III LANDFILLS														
									R	R					R	R		R				
								Antelope Valley	Burbank	Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	San Clemente	Scholl	Sunshine City/County Combined	Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	60%	28,077	500	2,069	0	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	0	27,295	1,800 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 4,000 1.8	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 6.0 **E**	23,499	3,797	7,500	(3,703)
2015	73,087	60%	29,235	700	2,069	0	27,866	1,800 1,100 16.0	240 113 2.8	3,500 633 4.9	12,000 5,000 0.3	3,000 900 12.3	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 5.9	29,534	(1,668)	10,000	(11,668)
2016	74,368	60%	29,747	700	2,069	0	28,379	1,800 1,200 15.6	240 115 2.8	3,500 644 4.7	12,000 6,000 57.9 **E**	3,000 1,000 12.0	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 5.9	29,566	(1,187)	10,000	(11,187)
2017	75,469	60%	30,188	700	2,069	1,800	27,019	1,800 1,300 15.2	240 109 2.8	3,500 614 4.5	12,000 7,000 55.7	3,000 1,100 11.7	49 10 0.08		10 1.31 0.04	3,400 692 2.3	11,000 11,000 59.1	350 256 5.8	29,481	(2,462)	10,000	(12,462)
2018	76,516	60%	30,607	700	2,069	1,900	27,338	1,800 1,400 14.8	240 111 2.7	3,500 621 4.4	12,000 8,000 53.2	3,000 1,200 11.3	49 10 0.07		10 1.32 0.04	3,400 700 2.1	11,000 11,000 55.6	350 259 5.7	29,501	(2,163)	10,000	(12,163)
2019	77,511	60%	31,004	700	2,069	2,000	27,636	1,800 1,500 14.3	240 112 2.7	3,500 628 4.2	12,000 9,000 50.4	3,000 1,200 10.9	49 10 0.07		10 1.34 0.04	3,400 707 1.9	11,000 11,000 52.2	350 262 5.6	29,520	(1,884)	10,000	(11,884)
2020	78,750	60%	31,500	700	2,069	2,100	28,031	1,800 1,600 13.8	240 114 2.7	3,500 637 4.0	12,000 10,000 47.3	3,000 1,200 10.6	49 10 0.07		10 1.36 0.04	3,400 717 7.6 **E**	11,000 11,000 48.8	350 266 5.5	29,544	(1,513)	12,000	(13,513)
2021	79,072	61%	30,838	700	2,069	3,200	26,270	1,800 1,700 13.3	240 106 2.6	3,500 597 3.8	12,000 11,000 43.8	3,000 1,200 10.2	49 9 0.07		10 1.27 0.04	3,400 672 7.4	11,000 11,000 45.4	350 249 5.5	29,435	(3,165)	12,000	(15,165)
2022	79,805	62%	30,326	700	2,069	3,300	25,657	1,800 1,800 12.7	240 104 2.6	3,500 583 3.6	12,000 12,000 40.1	3,000 1,200 9.8	49 9 0.06		10 1.24 0.04	3,400 657 7.2	11,000 11,000 41.9	350 243 5.4	29,397	(3,739)	12,000	(15,739)
2023	80,667	63%	29,847	700	2,069	3,400	25,078	1,800 1,800 12.1	240 102 2.6	3,500 570 3.4	12,000 12,000 36.4	3,000 1,200 9.4	49 9 0.06		10 1.21 0.03	3,400 642 7.0	11,000 11,000 38.5	350 238 5.3	29,361	(4,282)	12,000	(16,282)
2024	81,786	64%	29,443	700	2,069	3,500	24,574	1,800 1,800 11.6	240 100 2.5	3,500 558 3.2	12,000 12,000 32.6	3,000 1,200 9.1	49 9 0.06		10 1.19 0.03	3,400 629 6.8	11,000 11,000 35.1	350 233 5.2	29,329	(4,755)	12,000	(16,755)
2025	82,474	65%	28,866	700	2,069	3,500	23,997	1,800 1,800 11.0	240 97 2.5	3,500 545 **CP**	12,000 12,000 28.9	3,000 1,200 8.7	49 8 0.05		10 1.16 0.03	3,400 614 6.6	11,000 11,000 31.6	350 227 5.2	29,293	(5,296)	12,000	(17,296)
2026	83,659	65%	29,281	700	2,069	3,500	24,412	1,800 1,800 10.5	240 99 2.5		12,000 12,000 25.1	3,000 1,200 8.3	49 9 0.05		10 1.18 0.03	3,400 625 6.5	11,000 11,000 28.2	350 231 5.1	28,765	(4,353)	12,000	(16,353)
2027	84,839	65%	29,693	700	2,069	3,500	24,825	1,800 1,800 9.9	240 101 2.5		12,000 12,000 21.4	3,000 1,200 7.9	49 9 0.05		10 1.20 0.03	3,400 635 6.3	11,000 11,000 24.8	350 235 5.0	28,781	(3,956)	12,000	(15,956)

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO VIII - FULL UTILIZATION OF OUT-OF-COUNTY DISPOSAL CAPACITY

- **Existing In-County Class III Landfills & Transformation Facilities**
- **Full Utilization of Out-of-County Disposal Capacity**
- **Proposed Expansions of In-County Class III Landfills**
- **Utilization of Alternative Technology Capacity (up to 2,300 tpd by 2021)**
- **Increase In Diversion Rate up to 65% by 2025**

Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Total	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								1	2	3	4	5	6	7	8	9	10	11				
								Antelope Valley	Burbank R	Calabasas R	Chiquita	Lancaster	Pebbly Beach	Puente Hills	San Clemente R	Scholl R	Sunshine City/County Combined	Whittier (Savage Canyon) R	Daily Available Capacity[2] from Class III Landfills			
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	60%	28,077	500	2,069	0	26,508	1,800 900 16.6	240 107 2.9	3,500 602 5.3	6,000 2,919 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.28 0.04	3,400 679 3.2	11,000 8,000 71.9	350 251 3.5	36,650	(10,141)	6,200	(16,341)
2014	71,659	60%	28,664	700	2,069	0	27,295	1,800 1,000 16.3	240 111 2.9	3,500 620 5.1	6,000 4,000 1.8	3,000 800 11.8	49 10 0.09		10 1.32 0.04	3,400 699 3.0	11,000 9,000 69.1	350 259 6.0 **E**	23,499	3,797	7,500	(3,703)
2015	73,087	60%	29,235	700	2,069	0	27,866	1,800 1,100 16.0	240 113 2.8	3,500 633 4.9	12,000 5,000 0.3	3,000 900 12.3	49 10 0.08		10 1.35 0.04	3,400 713 2.8	11,000 10,000 65.9	350 264 5.9	29,534	(1,668)	10,000	(11,668)
2016	74,368	60%	29,747	700	2,069	0	28,379	1,800 1,200 15.6	240 115 2.8	3,500 644 4.7	12,000 6,000 57.9 **E**	3,000 1,000 12.0	49 10 0.08		10 1.37 0.04	3,400 726 2.5	11,000 11,000 62.5	350 269 5.9	29,566	(1,187)	11,000	(12,187)
2017	75,469	60%	30,188	700	2,069	1,300	27,519	1,800 1,300 15.2	240 112 2.8	3,500 625 4.5	12,000 7,000 55.7	3,000 1,100 11.7	49 10 0.08		10 1.33 0.04	3,400 704 2.3	11,000 11,000 59.1	350 261 5.8	29,513	(1,993)	12,000	(13,993)
2018	76,516	60%	30,607	700	2,069	1,300	27,938	1,800 1,400 14.8	240 113 2.7	3,500 634 4.3	12,000 8,000 53.2	3,000 1,200 11.3	49 10 0.07		10 1.35 0.04	3,400 715 2.1	11,000 10,500 55.8	350 265 5.7	29,539	(1,601)	13,000	(14,601)
2019	77,511	60%	31,004	700	2,069	1,300	28,336	1,800 1,500 14.3	240 115 2.7	3,500 643 4.1	12,000 9,000 50.4	3,000 1,200 10.9	49 10 0.07		10 1.37 0.04	3,400 725 1.9	11,000 11,000 52.4	350 268 5.6	29,563	(1,228)	14,000	(15,228)
2020	78,750	60%	31,500	700	2,069	1,300	28,831	1,800 1,600 13.8	240 117 2.7	3,500 655 3.9	12,000 10,000 47.3	3,000 1,200 10.6	49 8 0.07		10 1.40 0.04	3,400 738 7.6 **E**	11,000 11,000 48.9	350 273 5.5	29,592	(761)	15,000	(15,761)
2021	79,072	61%	30,838	700	2,069	2,300	27,170	1,800 1,700 13.3	240 110 2.6	3,500 617 3.7	12,000 11,000 43.8	3,000 1,200 10.2	49 8 0.07		10 1.31 0.04	3,400 695 7.4	11,000 11,000 45.5	350 257 5.5	29,489	(2,319)	16,000	(18,319)
2022	79,805	62%	30,326	700	2,069	2,300	26,657	1,800 1,800 12.7	240 108 2.6	3,500 605 3.6	12,000 12,000 40.1	3,000 1,200 9.8	49 7 0.06		10 1.29 0.04	3,400 682 7.2	11,000 11,000 42.1	350 253 5.4	29,457	(2,800)	17,000	(19,800)
2023	80,667	63%	29,847	700	2,069	2,300	26,178	1,800 1,800 12.1	240 106 2.6	3,500 594 3.4	12,000 12,000 36.4	3,000 1,200 9.4	49 7 0.06		10 0.50 0.04	3,400 670 7.0	11,000 11,000 38.6	350 248 5.3	29,426	(3,248)	18,000	(21,248)
2024	81,786	64%	29,443	700	2,069	2,300	25,774	1,800 1,800 11.6	240 104 2.5	3,500 585 3.2	12,000 12,000 32.6	3,000 1,200 9.1	49 7 0.06		10 0.50 0.03	3,400 300 6.9	11,000 11,000 35.2	350 125 5.3	28,922	(3,148)	19,000	(22,148)
2025	82,474	65%	28,866	700	2,069	2,300	25,197	1,800 1,800 11.0	240 40 2.5	3,500 572 **CP**	12,000 12,000 28.9	3,000 1,200 8.7	49 7 0.06		10 0.50 0.03	3,400 300 6.8	11,000 11,000 31.8	350 125 5.2	28,845	(3,648)	19,000	(22,648)
2026	83,659	65%	29,281	700	2,069	2,300	25,612	1,800 1,800 10.5	240 40 2.5		12,000 12,000 25.1	3,000 1,200 8.3	49 7 0.06		10 0.50 0.03	3,400 300 6.7	11,000 11,000 28.3	350 125 5.2	28,273	(2,661)	19,000	(21,661)
2027	84,839	65%	29,693	700	2,069	2,300	26,025	1,800 1,800 9.9	240 40 2.5		12,000 12,000 21.4	3,000 1,200 7.9	49 2 0.05		10 0.50 0.03	3,400 300 6.6	11,000 11,000 24.9	350 125 5.1	28,268	(2,243)	19,000	(21,243)

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

2012 ANNUAL REPORT
LOS ANGELES COUNTY COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN

APPENDIX E-4
SCENARIO IX - BEST CASE (ALL SOLID WASTE MANAGEMENT OPTIONS CONSIDERED BECOME AVAILABLE)

- **Existing In-County Class III Landfills & Transformation Facilities**
- **Full Utilization of Out-of-County Disposal Capacity**
- **Proposed Expansions of In-County Class III Landfills**
- **Increase In Alternative Technology Capacity (up to 3,000 tpd by 2025)**
- **Maximizing Diversion Rate up to 75% by 2020**

Year	Waste Generation Rate[1]	Diversion Rate	Total Daily Disposal Demand	Imports from Other Counties	Daily Available Capacity from Transformation Facilities	Maximum Alternative Technology Capacity	Class III Landfill Daily Disposal Demand	IN-COUNTY CLASS III LANDFILLS											Total	Export Need	Available Daily Out-of-County Disposal Capacity	Class III Landfill Daily Disposal Capacity Shortfall (Reserve)
								1	2	3	4	5	6	7	8	9	10	11				
								Antelope Valley	R Burbank	R Calabasas	Chiquita	Lancaster	Pebbly Beach	Puente Hills	R San Clemente	R Scholl	Sunshine City/County	R Whittier (Savage Canyon)	Daily Available Capacity[2] from Class III Landfills			
								Maximum Permitted Daily Capacity (tpd-6) Expected Average Daily Tonnage (tpd-6) Remaining Capacity at Year's End (Million Tons)														
	A	B	C=A(1-B)	D	E	F	G=C+D-E-F												H	I=G-H	J	K=I-J
	(tpd-6)		(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)												(tpd-6)	(tpd-6)	(tpd-6)	(tpd-6)
2012	69,007	60%	27,603	452	1,695	0	26,360	1,800 808 16.9	240 107 3.0	3,500 599 5.5	6,000 2,903 4.0	3,000 667 12.3	49 9.3 0.09	13,200 6,872 6.10	10 1.28 0.04	3,400 675 3.4	11,000 7,541 74.4	350 250 3.6	36,640	(10,280)	5,911	–
2013	70,193	61%	27,375	500	2,069	0	25,807	1,800 900 25.6	240 105 2.9	3,500 586 5.3	6,000 2,842 3.1	3,000 700 12.1	49 9 0.09	13,200 7,000 **CP**	10 1.25 0.04	3,400 661 3.2	11,000 8,000 71.9	350 244 3.5	36,606	(10,799)	6,200	(16,999)
2014	71,659	63%	26,514	700	2,069	0	25,145	1,800 1,000 25.3	240 102 2.9	3,500 571 5.2	6,000 4,000 1.8	3,000 800 11.8	49 9 0.09		10 1.22 0.04	3,400 644 3.0	11,000 9,000 69.1	350 238 6.0 **E**	23,365	1,781	7,500	(5,719)
2015	73,087	65%	25,580	700	2,069	0	24,212	1,800 1,100 24.9	240 98 2.9	3,500 550 5.0	12,000 5,000 0.3	3,000 900 12.3	49 9 0.08		10 1.17 0.04	3,400 620 2.8	11,000 10,000 65.9	350 229 6.0	29,307	(5,095)	10,000	(15,095)
2016	74,368	67%	24,541	700	2,069	0	23,173	1,800 1,200 24.6	240 94 2.8	3,500 526 4.8	12,000 6,000 57.9 **E**	3,000 1,000 12.0	49 8 0.08		10 1.12 0.04	3,400 593 2.6	11,000 11,000 62.5	350 220 5.9	29,242	(6,069)	11,000	(17,069)
2017	75,469	69%	23,395	700	2,069	0	22,027	1,800 1,300 24.2	240 89 2.8	3,500 500 4.7	12,000 7,000 55.7	3,000 1,100 11.7	49 8 0.08		10 1.07 0.04	3,400 564 2.4	11,000 11,000 59.1	350 209 5.8	29,171	(7,144)	12,000	(19,144)
2018	76,516	71%	22,190	700	2,069	600	20,221	1,800 1,400 23.7	240 82 2.8	3,500 459 4.5	12,000 8,000 53.2	3,000 1,200 11.3	49 7 0.08		10 0.98 0.04	3,400 518 2.3	11,000 11,000 55.6	350 125 5.8	28,992	(8,771)	13,000	(21,771)
2019	77,511	73%	20,928	700	2,069	700	18,859	1,800 1,500 23.3	240 76 2.7	3,500 428 4.4	12,000 9,000 50.4	3,000 1,200 10.9	49 7 0.08		10 0.50 0.04	3,400 300 2.2	11,000 11,000 52.2	350 125 5.8	28,737	(9,878)	14,000	(23,878)
2020	78,750	75%	19,687	700	2,069	800	17,519	1,800 1,600 22.8	240 71 2.7	3,500 398 4.3	12,000 10,000 47.3	3,000 1,200 10.6	49 6 0.07		10 0.50 0.04	3,400 300 8.1 **E**	11,000 11,000 48.8	350 125 5.7	28,701	(11,182)	15,000	(26,182)
2021	79,072	75%	19,768	700	2,069	900	17,499	1,800 1,700 22.2	240 71 2.7	3,500 397 4.1	12,000 11,000 43.9	3,000 1,200 10.2	49 6 0.07		10 0.50 0.04	3,400 300 8.0	11,000 11,000 45.4	350 125 5.7	28,700	(11,201)	16,000	(27,201)
2022	79,805	75%	19,951	700	2,069	1,000	17,583	1,800 1,800 21.7	240 71 2.7	3,500 399 4.0	12,000 12,000 40.1	3,000 1,200 9.8	49 6 0.07		10 0.50 0.04	3,400 300 7.9	11,000 11,000 41.9	350 125 5.6	28,702	(11,119)	16,000	(27,119)
2023	80,667	75%	20,167	700	2,069	1,800	16,998	1,800 1,800 21.1	240 30 2.7	3,500 386 3.9	12,000 12,000 36.4	3,000 1,200 9.4	49 2 0.07		10 0.50 0.04	3,400 300 7.8	11,000 11,000 38.5	350 125 5.6	28,644	(11,645)	16,000	(27,645)
2024	81,786	75%	20,446	700	2,069	2,800	16,278	1,800 1,800 20.5	240 30 2.7	3,500 370 3.8	12,000 12,000 32.6	3,000 1,200 9.1	49 2 0.07		10 0.50 0.04	3,400 300 7.7	11,000 11,000 35.1	350 125 5.6	28,627	(12,349)	16,000	(28,349)
2025	82,474	75%	20,618	700	2,069	3,000	16,250	1,800 1,800 20.0	240 30 2.7	3,500 369 **CP**	12,000 12,000 28.9	3,000 1,200 8.7	49 2 0.07		10 0.50 0.04	3,400 300 7.6	11,000 11,000 31.6	350 125 5.5	28,627	(12,377)	16,000	(28,377)
2026	83,659	75%	20,915	700	2,069	3,000	16,546	1,800 1,800 19.4	240 30 2.6		12,000 12,000 25.1	3,000 1,200 8.3	49 2 0.07		10 0.50 0.04	3,400 300 7.5	11,000 11,000 28.2	350 125 5.5	28,258	(11,711)	16,000	(27,711)
2027	84,839	75%	21,210	700	2,069	3,000	16,841	1,800 1,800 18.9	240 30 2.6		12,000 12,000 21.4	3,000 1,200 7.9	49 2 0.07		10 0.50 0.04	3,400 300 7.4	11,000 11,000 24.8	350 125 5.4	28,258	(11,416)	16,000	(27,416)

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, August 2013.
2. Total Daily Available Capacity from Class III Landfills 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.

LEGEND:

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

Source: Los Angeles County Department of Public Works, August 2013.

Appendix E-5 Map of Transfer and Processing Facilities

Permitted Large Volume Solid Waste Transfer and Processing Facilities in Los Angeles County in 2012

Material Recovery Facility (Dirty)

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Athens Services	14048 East Valley Boulevard, Industry, 91746	5,000	2,539
2	Athens Sun Valley MRF	11121 Pendleton Street, Sun Valley, 91352	1,500	145
3	California Waste Services, LLC	621 West 152nd Street, Gardena, 90247	1,000	300
4	City Terrace Recycling Transfer Station	1511-1525 Fishburn Avenue, City Terrace, 90063	700	280
5	Community Recycling & Resource Recovery, Inc.	9147 De Garmo Avenue, Sun Valley, 91352	1,119	(a) 41
6	Downey Area Recycling & Transfer	9770 Washburn Road, Downey, 90241	5,000	382
7	East Los Angeles Recycling And Transfer	1512 North Bonnie Beach Place, City Terrace, 90063	700	542
8	Falcon Refuse Center, Inc.	3031 East "I" Street, Wilmington, 90744	3,500	404
9	Grand Central Recycling & Transfer Station	999 Hatcher Boulevard, Industry, 91744	5,000	1,800
10	Puente Hills Materials Recovery Facility	2808 Workman Mill Road, Whittier, 90601	4,400	132
11	Waste Management South Gate Transfer Station	4489 Ardine Street, South Gate, 90280	2,000	323
12	Waste Resource Recovery	357 West Compton Boulevard, Gardena, 90248	500	236
		Total	**30,419**	**7,124**

Material Recovery Facility (Clean)

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Allan Company Baldwin Park	14604-14618 Arrow Highway, Baldwin Park, 91706	960	54
2	City Fibers – West Valley Plant	16714 Schoenborn Street, Los Angeles, 91343	350	n/a
3	City Fibers - LA Plant No. 2	2545 East 25th Street Los Angeles, 90058	300	n/a
4	Los Angeles Express Materials Rec. Fac.	6625 Stanford Avenue, Los Angeles, 90001	260	(a) 142
5	Pico Rivera MRF	8405 Loch Lomand Drive, Pico Rivera, 91660	327	(a) 159
6	Sun Valley Paper Stock MRF and TS	8701 North San Fernando Road, Sun Valley, 91352	1,250	620
		Total	**3,447**	**975**

Footnote: (a) – Average Daily Tonnages are based on 2011 Annual Report.

Construction and Demolition/Processing[2]

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	Construction and Demolition Recycling	9309 Rayo Avenue, South Gate, 90280	3,000	n/a
2	Looney Bins/East Valley Diversion	11616 Sheldon Street, Sun Valley, 91352	750	261
3	Looney Bins/Downtown Diversion	2424 Olympic Boulevard, Los Angeles, 90021	1,500	396
		Total	**5,250**	**657**

Composting/Chipping and Grinding Facility[2]

	Facility Name	Location Address	Permitted Capacity (tpd)	Avg. Daily Tonnage (tpd)
1	American Reclamation Chipping and Grinding	4560 Doran Street, Los Angeles, 90039	500	59
2	Burbank Green Waste Transfer Operation	3000 Bel Aire Drive, Burbank, 91504	200	74
3	Evergreen Recycling, Inc.	8700 Crocker St., Los Angeles, 90003	100	n/a
4	Foothill Soils, Inc.	22925 Coltrane Ave, Newhall, 91325	200	30
5	Greencycle, Inc.	12815 E. Imperial Hwy., Santa Fe Springs, 90670	135	n/a
6	GS Brothers, Inc.	20331 South Main Street, Carson, 90745	100	n/a
7	GWS, Inc.	10120 Miller Avenue, South Gate, 90280	200	8
8	Harbor Mulching Facility	1400 N Gaffey St., San Pedro, 90731	120	n/a
9	Lopez Canyon Environmental Center	11950 Lopez Canyon Road, Los Angeles, 91342	12,499	n/a
10	North Hills Recycling, Inc.	11700 Blucher Avenue, Granada Hills, 91345	1,000	385
11	Norwalk Industries Green Waste Operation	13780 East Imperial Highway, Santa Fe Springs, 90670	200	n/a
12	Ornales Wood Recovery, Inc.	6635 W. Avenue F, Lancaster, 93536	150	n/a
13	Pomona Municipal Chipping & Grinding Operation	1730 E. First St., Pomona, 91766	100	80
14	Recycled Wood Products	1313 E. Phillipes Blvd., Pomona, 91766	200	n/a
15	RJ's Alondra Chipping and Grinding Operation	355 W Alondra Blvd., Gardena, CA 90248	200	150
16	RJ`s Chipping and Grinding Operation	1135 East Florence Avenue, Inglewood, 90302	200	150
		Total	**16,104**	**936**

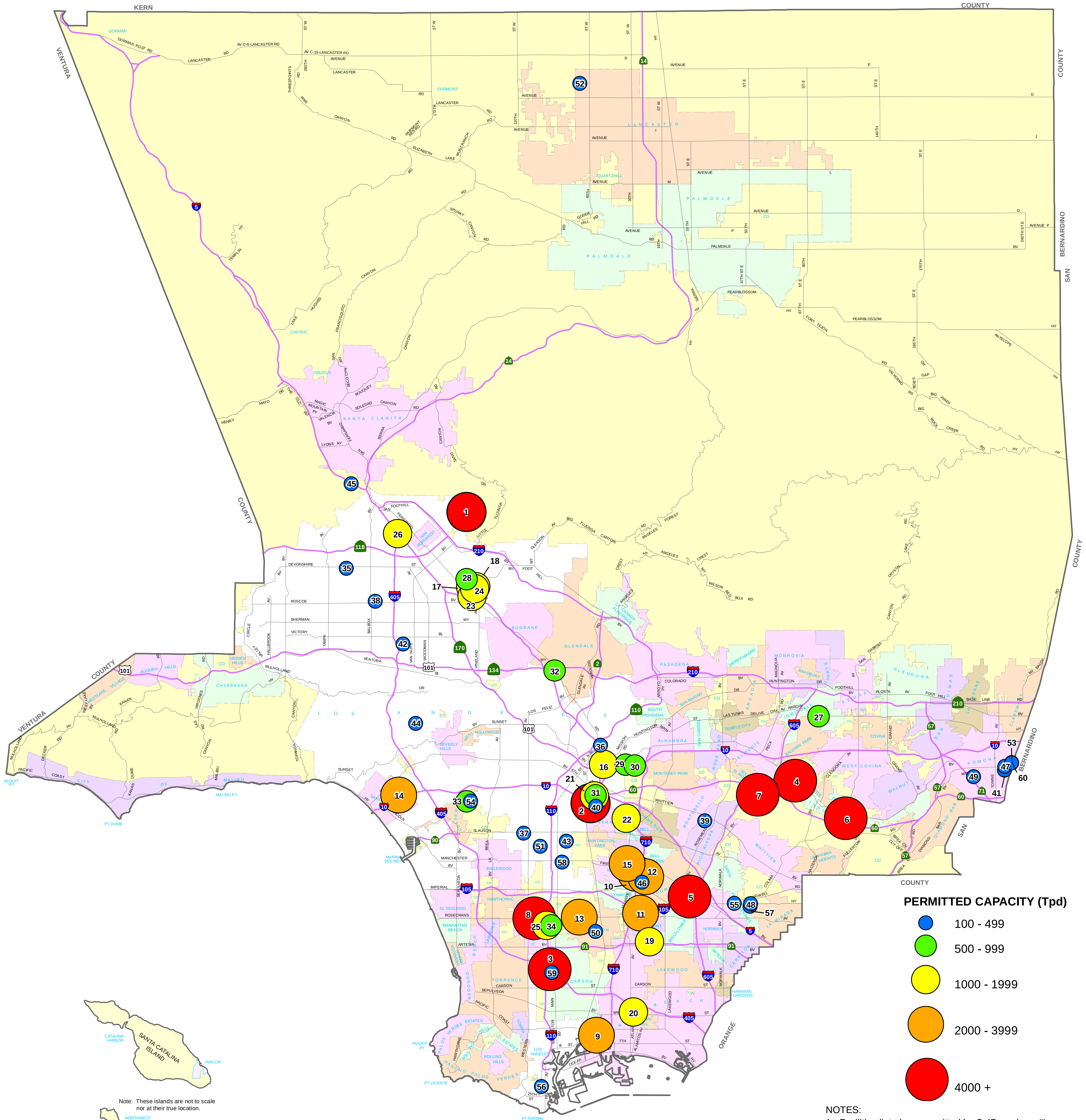
Notes: 1. Facilities listed are permitted by the CalRecycle as "Large Volume Transfer/Processing" or "Direct Transfer" Facilities with a permitted daily capacity of at least 100 tpd.

2. Facilities listed are permitted by CalRecycle with a minimum of 100 tpd of permitted capacity or maximum average allowed intake. If capacity is in cubic yards, a conversion factor is assumed as follows: 240 lbs/cubic yard for Composting/Chipping and Grinding facilities; 900 lbs/cubic yard for Transformation/Processing facilities; and 1,200 lbs/cubic yard for Composting/Chipping and Grinding facilities.

3. "n/a" mean Not Available.

Footnote: (a) Average Daily Tonnages are based on 2011 Annual Report.

Permitted Large Volume Solid Waste Transfer and Processing Facilities in Los Angeles County in 2012



N

Miles

0 6

NO.	FACILITY NAME AND ADDRESS	PERMITTED CAPACITY (Tpd)	
1	Lopez Canyon Environmental Center 11950 Lopez Canyon Road, Los Angeles, 91342	12,499	□ ◆
2	Central LA Recycling & Transfer Station 2201 Washington Boulevard, Los Angeles, 90034	5,500	
3	Carson Transfer Station & Materials Recovery Facility 321 West Francisco Street, Carson, 90745	5,300	
4	Athens Services 14048 East Valley Boulevard, Industry, 91746	5,000	◆
5	Downey Area Recycling & Transfer 9770 Washburn Road, Downey, 90241	5,000	
6	Grand Central Recycling & Transfer Station 999 Hatcher Boulevard, City of Industry, 91744	5,000	
7	Puente Hills Materials Recovery Facility 2808 Workman Mill Road, Whittier, 90601	4,400	◆
8	American Waste Transfer Station 1449 West Rosecrans Avenue, Gardena, 90247	4,032	
9	Falcon Refuse Center, Inc. (Allied/BFI Waste Systems, Falcon) 3031 East "I" Street, Wilmington, 90744	3,500	
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	South Gate Transfer Station 9530 South Garfield Avenue, South Gate, 90280	2,200	
13	Compton Recycling & Transfer Station (Allied/BFI Waste Systems,Compton) 2509 West Rosecrans Avenue, Compton, 90220	2,160	
14	Southern California Disposal Company Recycling & Transfer Station 1908 Frank Street, Santa Monica, 90404	2,112	
15	Waste Management South Gate Transfer 4489 Ardine Street, South Gate, 90280	2,000	
16	Mission Road Recycling & Transfer Station 840 South Mission Road, Los Angeles, 90033	1,785	
17	Bradley East Transfer Station 9227 Tujunga Avenue, Sun Valley, 91352	1,640	
18	Athens Sun Valley Materials Recycling & Transfer Station 11121 Pendleton Street, Sun Valley, 91352	1,500	
19	Bel-Art Waste Transfer Station 2501 East 68th Street, Long Beach, 90805	1,500	
20	EDCO Recycling and Transfer 2755 California Avenue, Signal Hill, 90755	1,500	
21	Looney Bins/Downtown Diversion 2424 Olympic Boulevard, Los Angeles, 90021	1,500	△
22	Innovative Waste Control 4133 Bandini Boulevard, Vernon, 90023	1,250	
23	Sun Valley Paper Stock Materials Recovery Facility & Transfer Station 8701 North San Fernando Road, Sun Valley, 91352	1,250	
24	Community Recycling & Resource Recovery, Inc. 9147 De Garmo Avenue, Sun Valley, 91352	1,119	
25	California Waste Services, LLC 621 West 152nd Street, Gardena, 90247	1,000	
26	North Hills Recycling, Inc. 11700 Blucher Avenue, Granada Hills, 91345	1,000	□
27	Allan Company Baldwin Park 14604-14618 Arrow Highway, Baldwin Park, 91706	960	
28	Looney Bins/East Valley Diversion 11616 Sheldon Street, Sun Valley, 91352	750	△
29	City Terrace Recycling Transfer Station 1511-1525 Fishburn Avenue, City Terrace, 90063	700	◆
30	East Los Angeles Recycling And Transfer 1512 North Bonnie Beach Place, City Terrace, 90063	700	◆
31	Angelus Western Paper Fibers, Inc. 2474 Porter Street, Los Angeles, 90021	700	
32	American Reclamation Chipping & Grinding 4560 Doran Street, Los Angeles, 90039	500	□
33	Culver City Transfer/Recycling Station 9255 West Jefferson Boulevard, Culver City, 90232	500	
34	Waste Resource Recovery 357 West Compton Boulevard, Gardena, 90248	500	◆
35	Granada Hills Street Maintenance District Yard 10210 Etiwanda Avenue, Northridge, 91325	460	
36	East Street Maintenance District Yard 452 San Fernando Road, Los Angeles, 90065	460	
37	Southwest Street Maintenance District Yard 5860 South Wilton Place, Los Angeles, 90047	460	
38	City Fibers - West Valley Plant 16714 Schoenborn Street, Los Angeles, 91343	350	
39	Pico Rivera MRF 8405 Loch Lomand Drive, Pico Rivera, 91660	327	
40	City Fibers - LA Plant #2 2545 East 25th Street, Los Angeles, 90058	300	
41	Mission Recycling/West Coast Recycling 1326 East Ninth Street, Pomona, 91766	300	
42	Van Nuys Street Maintenance District Yard 15145 Oxnard Street, Van Nuys, 91411	300	
43	Los Angeles Express Materials Rec. Fac. 6625 Stanford Avenue, Los Angeles, 90001	260	
44	Burbank Green Waste Transfer Operation 3000 Bel Aire Drive, Burbank, 91504	200	□
45	Foothill Soils, Inc. 22925 Coltrane Avenue, Newhall, 91325	200	□ ◆
46	GWS, Inc. 10120 Miller Avenue, South Gate, 90280	200	□
47	Mission Recycling/West Coast Recycling 1341 East Mission Boulevard, Pomona, 91766	200	
48	Norwalk Industries Green Waste Operation 13780 East Imperial Highway, Santa Fe Springs, 90670	200	□
49	Recycled Wood Products 1313 East Phillipes Boulevard, Pomona 91766	200	□
50	RJ's Alondra Chipping & Grinding Operation 355 West Alondra Boulevard, Gardena, 90248	200	□
51	RJ's Chipping & Grinding Operation 1135 East Florence Avenue, Inglewood 90302	200	□
52	Ornales Wood Recovery, Inc. 6635 West Avenue F, Lancaster, 93536	150	□
53	Pomona Municipal Direct Transfer Facility 1730 East First Street, Pomona, 91766	150	
54	Western District Satellite Yard 6000 West Jefferson Boulevard, Los Angeles, 90016	149	
55	Greencycle, Inc. 12815 East Imperial Highway, Santa Fe Springs, 90670	135	□
56	Harbor Mulching Facility 1400 North Gaffey Street, San Pedro, 90731	120	□
57	Norwalk Transfer Station 13780 East Imperial Highway, Santa Fe Springs, 90670	113	
58	Evergreen Recycling, Inc. 8700 Crocker Street, Los Angeles, 90003	100	□
59	GS Brothers, Inc. 20331 South Main Street, Carson, 90745	100	□
60	Pomona Municipal Chipping & Grinding Operation 1730 East First Street, Pomona, 91766	100	□

PERMITTED CAPACITY (Tpd)

- 100 - 499
- 500 - 999
- 1000 - 1999
- 2000 - 3999
- 4000 +

NOTES:

1 - Facilities listed are permitted by CalRecycle as "Large Volume Transfer/Processing" or "Direct Transfer" Facilities with daily capacity of 100 tpd or more.

2 - Permitted capacity is based on the Maximum Permitted Throughput as specified in the Solid Waste Facility Permit. If the capacity is in cubic yards, a conversion factor is assumed as follows:
240 lbs/cubic yard for Composting/Chipping and Grinding Facilities;
900 lbs/cubic yard for Transformation/Processing Facilities;
and 1,200 lbs/cubic yard for Construction and Demolition/Processing Facilities.

3 - Tpd is tons per day based on 6 operating days a week, 312 days a year.

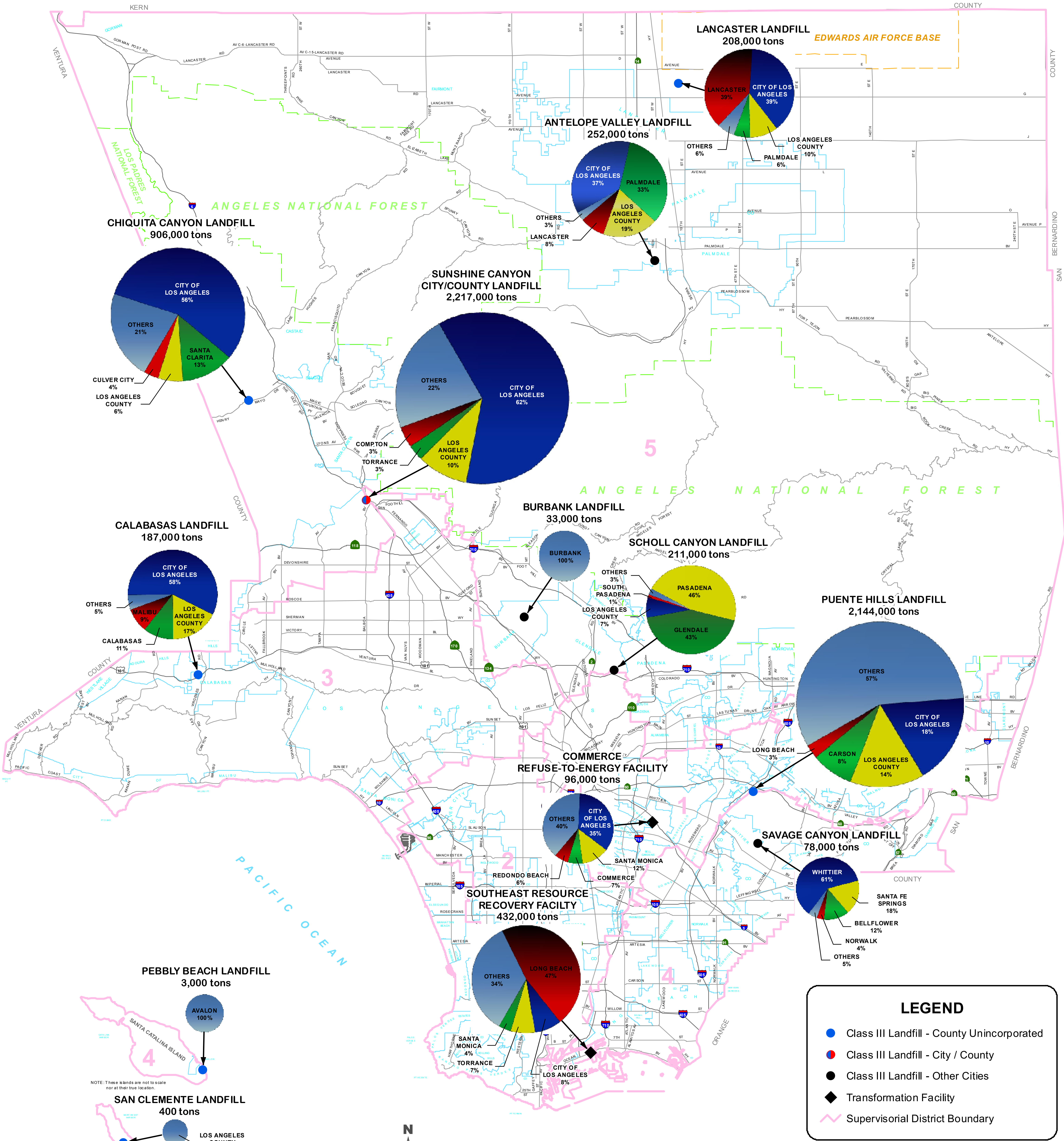
◆ Facilities located in the County unincorporated areas.

△ Construction and Demolition/Processing facilities.

□ Composting/Chipping and Grinding facilities.

Appendix E-6 Map of Landfills

WASTE DISPOSAL BY JURISDICTION OF ORIGIN AT PERMITTED MUNICIPAL SOLID WASTE FACILITIES IN LOS ANGELES COUNTY 2012



LANCASTER LANDFILL
208,000 tons
LANCASTER 39%
CITY OF LOS ANGELES 39%
LOS ANGELES COUNTY 10%
PALMDALE 6%
OTHERS 6%
EDWARDS AIR FORCE BASE
ANTELOPE VALLEY LANDFILL
252,000 tons
CITY OF LOS ANGELES 37%
PALMDALE 33%
LOS ANGELES COUNTY 19%
LANCASTER 8%
OTHERS 3%
CHIQUITA CANYON LANDFILL
906,000 tons
CITY OF LOS ANGELES 56%
OTHERS 21%
SANTA CLARITA 13%
LOS ANGELES COUNTY 6%
CULVER CITY 4%
SUNSHINE CANYON CITY/COUNTY LANDFILL
2,217,000 tons
CITY OF LOS ANGELES 62%
OTHERS 22%
LOS ANGELES COUNTY 10%
COMPTON 3%
TORRANCE 3%
ANGELES NATIONAL FOREST
LOS PADRES NATIONAL FOREST
BURBANK LANDFILL
33,000 tons
BURBANK 100%
SCHOLL CANYON LANDFILL
211,000 tons
PASADENA 46%
GLENDALE 43%
LOS ANGELES COUNTY 7%
OTHERS 3%
SOUTH PASADENA 1%
CALABASAS LANDFILL
187,000 tons
CITY OF LOS ANGELES 58%
LOS ANGELES COUNTY 17%
CALABASAS 11%
MALIBU 9%
OTHERS 5%
PUENTE HILLS LANDFILL
2,144,000 tons
OTHERS 57%
CITY OF LOS ANGELES 18%
LOS ANGELES COUNTY 14%
CARSON 8%
LONG BEACH 3%
COMMERCE REFUSE-TO-ENERGY FACILITY
96,000 tons
OTHERS 40%
CITY OF LOS ANGELES 35%
SANTA MONICA 12%
COMMERCE 7%
REDONDO BEACH 6%
SAVAGE CANYON LANDFILL
78,000 tons
WHITTIER 61%
SANTA FE SPRINGS 18%
BELLFLOWER 12%
NORWALK 4%
OTHERS 5%
SOUTHEAST RESOURCE RECOVERY FACILTY
432,000 tons
LONG BEACH 47%
OTHERS 34%
CITY OF LOS ANGELES 8%
TORRANCE 7%
SANTA MONICA 4%
PEBBLY BEACH LANDFILL
3,000 tons
AVALON 100%
SAN CLEMENTE LANDFILL
400 tons
LOS ANGELES COUNTY 100%
NOTE: These islands are not to scale nor at their true location.
SANTA CATALINA ISLAND
SAN CLEMENTE ISLAND
PACIFIC OCEAN
KERN
VENTURA
ORANGE
SAN BERNARDINO
LEGEND
Class III Landfill - County Unincorporated
Class III Landfill - City / County
Class III Landfill - Other Cities
Transformation Facility
Supervisorial District Boundary

MILES 0 4 8 12

NOTES: Based on total tonnages disposed January thru December 2012 (includes imported waste).
Total tonnages rounded to nearest thousand except San Clemente Landfill which is rounded to nearest hundred.

Source: Los Angeles County Solid Waste Information Management System - July 2013 (www.LACountySWIMS.org)