



**Waste
Management
Commission
Local Task Force
Orange County, CA**

Chair (4th Dist.)
Chad P. Wanke

Vice-Chair (At Large)
David J. Shawver*

1st District
Michele Martinez*
Xuan-Nhi Van Ho
Deepak J. Krishan

2nd District
Rob Johnson*
Tina M. Nieto
Joe J. Carchio

3rd District
Mike Alvarez*
Donald R. Froelich
Steve Chavez Lodge

4th District
Charles J. Kim
Christine Marick*

5th District
Cynthia Conners*
Joe Soto
Mark Tettermer

**City Managers'
Representative**
Doug Chotkevys*

**Director
OC Waste & Recycling**
Dylan Wright

*Appointed by Orange
County City Selection
Committee

Waste Management Commission
Thursday, December 10, 2015 2:00 P.M.
300 N. Flower St., Suite 400
Santa Ana, CA 92703

AGENDA

If you wish to speak on an item contained in the agenda, please complete a Public Comment Form identifying the item(s) and submit it to the Commission Clerk. If you wish to speak on a matter which does not appear on the agenda, you may do so during the Public Comment period at the close of the meeting. Speaker forms are available at the sign-in table at the back of the room.

The Orange County Waste Management Commission consists of 18 members. Nine members present constitute a quorum. In the absence of a quorum the meeting will be convened and adjourned, and no actions may be taken by the Commission.

Pledge of Allegiance

Roll Call The Clerk of the Commission will call roll.

Chairman's Report Chairman Chad P. Wanke

Director's Report Dylan Wright, Director, OC Waste & Recycling

Action Item Recap Commission Clerk

Agenda Item 1a: Minutes of Waste Management Commission/Local Task Force, September 10, 2015
Summary: Review and approve minutes of September 10, 2015 WMC/LTF meeting.
Recommended Action: Review and approve minutes.

Agenda Item 1b: Minutes of Special Meeting of the Waste Management Commission/Local Task Force, November 5, 2015
Summary: Review and approve minutes of November 5, 2015 WMC/LTF meeting.
Recommended Action: Review and approve minutes.

Agenda Item 2: OC Waste & Recycling FY 2015/16 1st Quarter Financial Report
Summary: Staff will provide the OC Waste & Recycling 1st Quarter Financial Report for FY 15/16.
Recommended Action: Receive and file report.

Agenda Item 3: AB 939 Report
Summary: Staff will present a written report on AB 939 programs, projects and issues.
Recommended Action: Receive and file report.



WASTE MANAGEMENT COMMISSION/LOCAL TASK FORCE

THURSDAY, DECEMBER 10, 2015

Page 2

Agenda Item 4:

Legislative and Regulatory Report

Summary: Staff will present a written report summarizing legislative and regulatory activities that could impact operations of OC Waste & Recycling.

Recommended Action: Receive and file report.

Agenda Item 5:

Subcommittee Reports

Summary: Subcommittee members will report on their respective meetings:

Renewable Technologies Subcommittee

CIWMP 5-Year Review Subcommittee

Finance Committee

Recommended Action

1. Approve the Countywide Integrated Waste Management Program (CWIMP) Five-Year Review Report;
2. Approve the minutes from the CIWMP 5-Year Subcommittee, transmittal of the Local Task Force comment letter and the CIWMP 5-Year Review Report to the California Department of Resource Recycling and Recovery (CalRecycle), as well as the 34 cities in Orange County;
3. Receive and file CIWMP Five-Year Review Report.
4. Receive and file the reports from the CIWMP 5-Year Review Subcommittee, Renewable Technologies Subcommittee, and the Finance Committee.

Agenda Item 6:

OC Waste & Recycling Strategic Plan

Summary: Staff will present the draft final plan with changes based on the Commission's review at its meeting on November 5, 2015.

Recommended Action: Approve finalization and presentation of the draft final OC Waste & Recycling Strategic Plan to the County of Orange Board of Supervisors.

Agenda Item 7:

Waste Management Commission Bylaws

Summary: Commissioners will discuss the Bylaws.

Recommended Action: None

Agenda Item 8

Election of 2016 Chair and Vice Chair

Waste Management Commission

Summary: Elect Chair and Vice Chair for 2016.

Recommended Action: Elect a Chair and Vice Chair for 2016.



WASTE MANAGEMENT COMMISSION/LOCAL TASK FORCE

THURSDAY, DECEMBER 10, 2015

Page 3

Commissioner Comments

Public Comment

At this time members of the public may address the Commission regarding any items within the subject matter jurisdiction of the Commission provided that NO action may be taken on off-agenda items unless authorized by law. When addressing the Commission, please state your name for the record prior to providing your comments. Please address the Commission as a whole through the Chair.

Comments shall be limited to three (3) minutes per person and up to twenty (20) minutes for all comments, at the discretion of the Chair and the approval of the Commission.

Copies of Waste Management Commission Agenda packets may be obtained from OC Waste & Recycling by any of the following methods:

- 1) By accessing the OC Waste & Recycling website at www.oclandfills.com and viewing the Waste Management Commission page.
- 2) By sending a written request to OC Waste & Recycling, 300 N. Flower, Suite 400, Santa Ana, CA 92703-5000;
- 3) By telephoning the Commission Clerk at (714) 834-4059;
- 4) By sending an e-mail request to Commission Clerk at julie.chay@ocwr.ocgov.com.

NEXT MEETING: Thursday, March 10, 2016



Agenda Item 1a - Minutes of Waste Management Commission/ Local Task Force, September 10, 2015

Discovery Cube Orange County
2500 N. Main Street, Santa Ana, California

Commissioners Roll (✓ Indicates Present)

<u>1st District</u>	<u>2nd District</u>	<u>3rd District</u>	<u>4th District</u>	<u>5th District</u>
Michele Martinez*	✓ Rob Johnson *	✓ Mike Alvarez*	✓ Brett Murdock*	Cynthia Conners*
Xuan-Nhi Ho	✓ Joe J. Carchio	✓ Donald Froelich	✓ Charles J. Kim	✓ Joe Soto
✓ Deepak J. Krishan	✓ Tina M. Nieto	✓ Steve Chavez Lodge	✓ Chad P. Wanke	Vacant
Doug Chotkevys* –City Manager		✓ David Shawver* –At Large (Stanton)		
✓ Dylan Wright, Director, OC Waste & Recycling		*City Selection Committee Appointee		

Also Present:

Rochelle Carpenter	OC Waste & Recycling	Melanie Tep	OC Waste & Recycling
Stu Luce	Public	Mary Beth Anderson	OC Waste & Recycling
Jesus Perez	OC Waste & Recycling	James Steinmann	County Counsel
Nick Alvaro	GHD	Trang Doan	OC Waste & Recycling
Sue Gordon	Rainbow	Roger Gomez	Aguinaga Green
Dan Dulac	Aguinaga Green	Michael Morris	Grand Jury 2015
Kathryn Cozza	Grand Jury 2015	Charles Fay	Public

Call to Order

Chairman Chad P. Wanke called the meeting to order at 2:06 p.m.

Pledge of Allegiance

The Pledge of Allegiance was led by Commissioner Kim.

Roll Call

Roll call was conducted by the Commission Clerk.

Chairman's Report

Chairman Wanke thanked Sean Fitzgerald, Vice President of Strategic Partnerships for Discovery Cube, for his hospitality in allowing the Waste Management Commission meeting to be held there. Sean thanked the County of Orange and OC Waste & Recycling for the long-running partnership that has reached far beyond the Cube, itself, in carrying the recycling and waste reduction message to students and families. It is the most in-depth partnership at the Cube.

Chairman Wanke also welcomed new Commissioner, Charles Kim to the position. Commissioner Kim was appointed by the Board of Supervisors to represent the Fourth District as recommended by Supervisor Shawn Nelson.

Director's Report

Director Dylan Wright welcomed everyone to the Discovery Cube Orange County, home to the Eco Challenge Exhibit. He reminded Commissioners and visitors that Discovery Cube staff would be available to provide a tour of the exhibit immediately following the meeting.

Director Wright also welcomed new OC Waste & Recycling employees: Shaw Lin, Deputy Director for Business Services and Lisa Keating, Manager of Waste Disposal Contracts and Recycling Programs.

Director Wright discussed the OC Waste & Recycling Long-Range Plan, which is being updated and will be presented to Commissioners at a special meeting in November to secure feedback on the plan. Commissioners will be notified when the date is selected.

Agenda Item 1: Minutes of the June 11, 2015 Waste Management Commission Meeting

The minutes were corrected to reflect that Commissioner Nieto was present at the June 11, 2015 meeting. Commissioner Kim abstained. The minutes were approved as corrected.

Agenda Item 2: OC Waste & Recycling FY 14/15 Financial Report

Manager of Budget Services, Alan Yuki, presented the report. Staff responded to various questions and comments from Commissioners:

Where does most of the imported waste come from?	Los Angeles County
What is the department's reserve amount?	25 percent—currently being reviewed
Would the State release closure funds before the landfill closes?	Like a performance bond, the funds are not released until all closure costs have been covered. The amount is based on required indices.

It was suggested that OC Waste and Recycling examine potential revenue sources such as composting, recycling and use of landfill space for projects such as solar farms.

The report was received and filed.

Agenda Item 3: AB 939 Report

Lisa Keating, Manager of Waste Disposal Contracts & Recycling Programs, presented the report.

The Report was received and filed.

Agenda Item 4: Legislative and Regulatory Report

Lisa Keating, Manager of Waste Disposal Contracts & Recycling Programs, presented the report.

The report was received and filed.

Agenda Item 5: Subcommittee Reports

Oral reports were made on the meetings of the subcommittees.

The report was received and filed.

Commissioner Comments

Commissioner Froelich asked if we are getting closer the 75 percent recycling goal now that community recycling and the organics program is picking up. Staff replied that the lower tonnage indicates that.

Commissioner Shawver asked if there was a way to cut back operational costs. Director Wright indicated that the landfilling operations do not scale easily. He said the current strategy to augment revenue via importation will address the operational cost issue.

Commissioner Shawver also suggested that Commissioners ask their respective cities to consider joining with other Orange County Cities to establish Recycling Market Development Zones (RMDZ). City of Huntington Beach is the lead and Stanton voted to participate.

Chairman Wanke asked that a discussion of the Bylaws be placed on the Commission's December 10, 2015 agenda to discuss the prohibition on representing the waste industry.

Commissioner Kim asked staff to direct Commissioners to the section of the Bylaws related to the Chairman's concerns.

Public Comments

None

The meeting was adjourned at 3:06 p.m.



Agenda Item 1b - Minutes of Waste Management Commission/ Local Task Force Special Meeting, November 5, 2015

Commissioners Roll (✓ Indicates Present)

<u>1st District</u>	<u>2nd District</u>	<u>3rd District</u>	<u>4th District</u>	<u>5th District</u>
Michele Martinez*	✓ Rob Johnson*	✓ Mike Alvarez*	✓ Brett Murdock*	✓ Cynthia Conners*
Xuan-Nhi Ho	✓ Joe J. Carchio	✓ Donald Froelich	Charles J. Kim	Joe Soto
Deepak J. Krishan	✓ Tina Nieto	✓ Steve Chavez Lodge	✓ Chad P. Wanke	✓ Mark Tettemer

✓ Doug Chotkevys* –City Manager
✓ Dylan Wright, Director, OC Waste & Recycling

✓ David Shawver* –At Large (Stanton)
*City Selection Committee Appointee

Also Present:

Judith Rosser		Michael Byrne	City of Irvine
Maria Lazaruk	R&R	Isabel Rios	OCWR
Deborah Orrill	Waste Management	Chip Monaco	Waste Management
Brian Johsz	Athens Services	Nancy Palmer	City of Laguna Niguel
Christy Kindig	City of Santa Ana	Jeff Snow	Rainbow/Republic Services
David Ross	Tierra Verde Industries		

Call to Order

Chairman Chad Wanke called the meeting to order at 2:08 p.m.

Pledge of Allegiance

The Pledge of Allegiance was led by Commissioner Nieto.

Roll Call

Roll call was conducted by the Commission Clerk.

Agenda Item 1: **Facilitated Review Session—Regional Landfill Options for Orange County (RELOOC) Strategic Plan Goals and Long-Range Landfill Capacity and Rate Stabilization Plan**

Director Dylan Wright began the review session by presenting the purpose and background of the meeting. Meeting facilitator Sharon Browning, Sharon Browning & Associates, presented the desired outcomes for the meeting:

1. To review and affirm the 2001 RELOOC Plan goals.
2. To review and receive input on the Long Range Landfill Capacity and Rate Stabilization Plan.
3. To prepare a draft update of the plan for the Commission's review at its December 10, 2015 meeting.

Director Wright presented Goal #1. Following discussion of the goal and the need to update its anachronistic elements, a consensus was reached on an update. The redline version (red = added text) below indicates the consensus update to Goal #1: ~~"To have a feasible, balanced and~~ **Maintain a financially sound, flexible 40-year long-term plan that addresses the County's for local solid waste disposal and management services.** ~~needs approved and ready for implementation by the year 2004 (when negotiations begin for the next term of the Waste Disposal Agreements)."~~

Goal #1 with stated with changes: “Maintain a financially sound, flexible long-term plan for local solid waste disposal and management services.”

Goal #3 was updated to change the department acronym from IWMD to OCWR.

The Commission affirmed the four goals as updated and appropriate for inclusion in the long-range plan update.

Director Wright was joined by Deputy Directors Shaw Lin and Jeff Southern in presenting the seven key strategies that comprise the long-range plan. Among the seven key strategies, the following change was made:

Strategy #5: (Added language is red.) “*Extend Olinda Alpha, Frank R. Bowerman and Prima Deshecha permitted closure dates to optimize value of the County’s disposal system and ensure long-term capacity.*”

No changes were made to the remaining key strategies.

It was moved (Johnson), seconded (Nieto) and passed to direct staff to prepare a draft update to the RELOOC Strategic Plan based on feedback from today’s meeting and present the plan to the Commission at its meeting on December 10, 2015.

Other consensus actions requested by the Commission during discussion are:

1. Send a letter to the Chairman of the Board of Supervisors voicing the concern of the Commission regarding the City of Irvine’s failure to approve the Amended Waste Disposal Agreement.
2. Develop a means by which non-approval of the WDA by a single city/district does not prevent the agreement from implementation for all others.
3. The Chairman will draft a letter to the City of Irvine regarding the Waste Disposal Agreement.

Public Comments

None

The meeting was adjourned at 3:24 p.m.



Agenda Item 2 – *OC Waste & Recycling’s Financial Report*

First Quarter of FY 15/16

Alan Yuki, Section Manager, Budget, Purchasing & Landfill Administration

This report presents the financial status of OC Waste & Recycling for the first quarter of FY 15/16 (July – September, 2015). Included in the report is financial information related to tonnage, expenditures, revenues, cash, and fund balance/reserves.

System Tonnage

Total OC Waste & Recycling system tonnage received during the first quarter of FY 15/16 was 1,174,385 tons, consisting of 730,567 In-county tonnage and 443,818 Importation tonnage. By landfill site, the first quarter of FY 15/16 tonnage was as follows:

Olinda Alpha Landfill

In-county tonnage 237,045 (32%) of total In-county tonnage
Importation tonnage 285,738 (65%) of total Importation tonnage

Frank R. Bowerman Landfill

In-county tonnage 409,767 (56%) of total In-county tonnage
Importation tonnage 138,743 (31%) of total Importation tonnage

Prima Deshecha Landfill

In-county tonnage 83,755 (12%) of total In-county tonnage
Importation tonnage 19,337 (4%) of total Importation tonnage

Revenues

For the first quarter of FY 15/16, revenue recorded in OC Waste & Recycling’s Enterprise/Operating (Fund 299) was \$19,737,400 or 18% versus the adopted revenue budget of \$106,781,000. Primary sources of revenue received during the first quarter included:

- \$19,412,979 Disposal fees (98% of the total)
- \$140,088 Interest income (1%)

For the first quarter of FY 15/16, revenue recorded in OC Waste & Recycling’s Capital Project Fund (Fund 273) was only \$24,045 or less than 1% versus the adopted revenue budget of \$11,900,000. Primary source of revenue received during the first quarter was interest income.

Expenditures

First quarter of 15/16 expenditures and encumbrances recorded in OC Waste & Recycling’s Enterprise/Operating (Fund 299) totaled \$29,079,543 or an approximate 23% spend-out versus a modified expense budget of \$124,815,064.

First quarter of FY 15/16 expenditures and encumbrances recorded in OC Waste & Recycling's Capital Project Fund (Fund 273) totaled 2,642,543 or 10% versus the adopted expense budget of \$25,814,194.

For the first quarter of FY 15/16, OC Waste & Recycling's categories of major expenditures were:

- \$8,267,801 Equipment Purchases & Maintenance (26% of the \$31,722,184 total)
- \$5,971,048 Salaries & Employee Benefits (19%)
- \$5,459,479 Services & Supplies (17%)
- \$4,914,160 Landfill Regulatory Compliance (15%)
- \$3,229,606 Recycling & Community Services Programs (10%)
- \$2,639,574 Capital Project Spend-out (8%)
- \$973,729 Facility Expenditures (3%)

Cash Balance and Reserves

As of September 30, 2015, the OC Waste & Recycling's Enterprise/Operating Fund 299 had a cash balance of \$151,528,819.

As of September 30, 2015 the OC Waste & Recycling's Enterprise/Operating Fund 299 had an available reserves balance of \$59,504,025.

Summary

Should you have any questions or would like additional information, please contact Alan Yuki, OC Waste & Recycling Budget, Purchasing & Landfill Administration Manager at (714) 834-4161.

Recommended Action: Receive and file report.

Attachments:

1. Budget Report First Quarter FY 2015/2016 Overview
2. System-Wide Tonnage - FY 2011/2012 to 2015/2016
3. System-Wide Revenue (Excluding \$19 Surcharge) - FY 2011/2012 to 2015/2016
4. Fund 299 Revenues – First Quarter of FY 2015/2016
5. Expenditures by Category – First Quarter of FY 2015/2016
6. Cash Balances – FY 2011/2012 – 2015/16

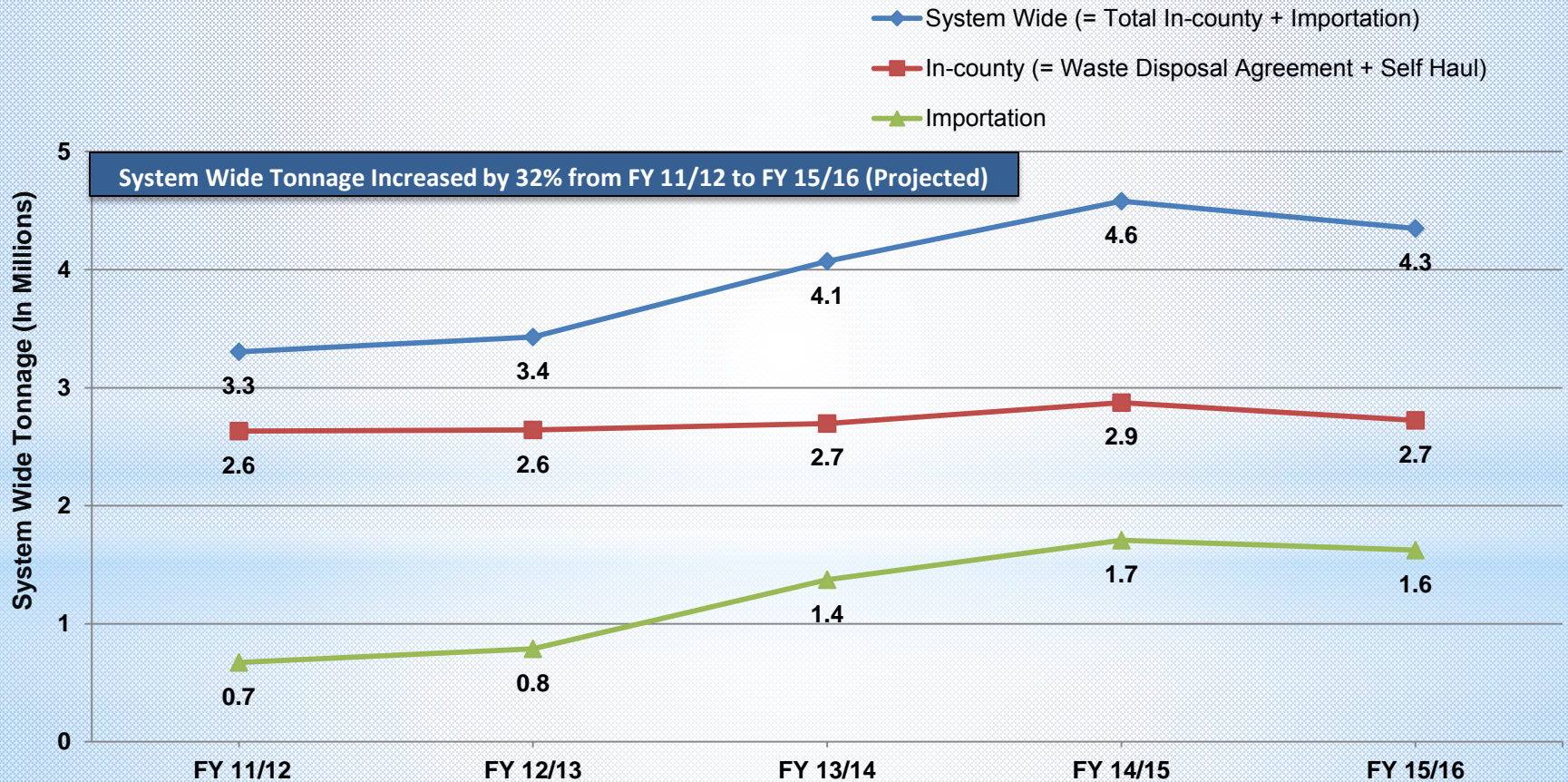
OC WASTE & RECYCLING

Budget Report Fiscal Year 2015/2016 – 1st Quarter

Fund 299, Fund 273 and Fund 285 Overview

	FY 15/16 Adopted Budget	FY 15/16 Modified Budget	FY 15/16 1st Quarter Actuals	FY 15/16 YTD Actuals	YTD Actuals (% of Adopted Budget)
In-County Tonnage	2,724,250		730,567	730,567	27%
Importation Tonnage	1,624,663		443,817	443,817	27%
Total System Tonnage	4,348,913		1,174,384	1,174,384	27%
Enterprise/Operating (Fund 299) Revenues	106,781,000		19,737,400	19,737,400	18%
Enterprise/Operating (Fund 299) Expenditures	124,815,064		29,079,641	29,079,641	23%
Capital Projects (Fund 273) Revenues	11,900,000		24,045	24,045	0%
Capital Projects (Fund 273) Expenditures	25,814,194		2,642,543	2,642,543	10%
Importation (Fund 285) Revenues	40,810,000		6,925,145	6,925,145	17%
Importation (Fund 285) Expenditures	41,008,606		506	506	0%

OC WASTE & RECYCLING System Wide Tonnage FY 2011/2012 – 2015/2016 (Projected)

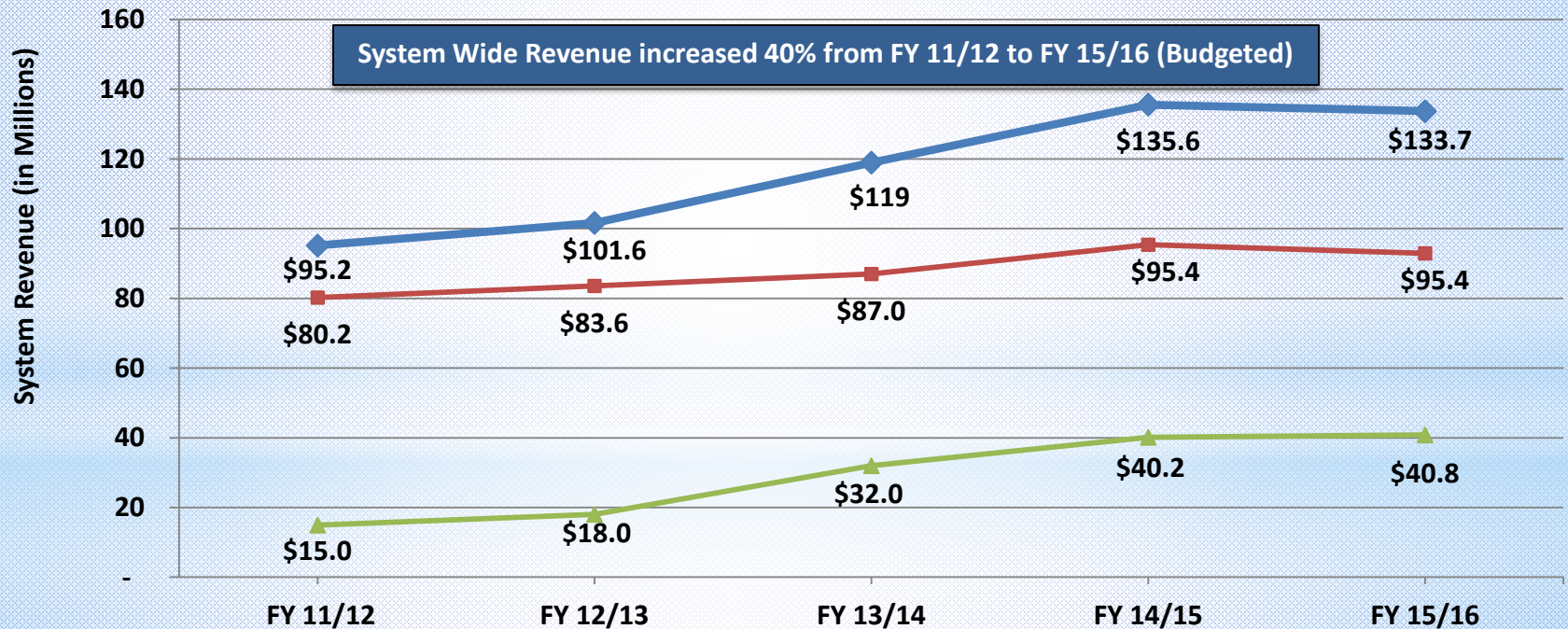


OC WASTE & RECYCLING

System Wide Revenue (Excluding \$19 Surcharge)

FY 2011/2012 – 2015/2016 (Budgeted)

—◆— System Wide (= Total In-county + Importation) —■— In-county (= Waste Disposal Agreement + Self Haul) —▲— Importation



OC WASTE & RECYCLING
Fund 299 Revenues
FY 2015/2016 1st Quarter - July-September 2015

	FY 15/16 Adopted Budget	FY 15/16 Modified Budget	FY 14/15 1st Quarter Actuals	FY 14/15 YTD Actuals	YTD Actuals (% of Adopted Budget)	
Disposal Fees & Services	94,978,500		19,412,979	19,412,979	20%	
Operating Transfers-in	6,986,050		3,084	3,085	0%	
Interest Income	650,000		140,088	140,088	22%	
Leases & Royalties	3,654,150		86,451	86,451	2%	
Other Revenues	512,300		94,798	94,798	19%	[1]
Grand Total	\$106,781,000		\$19,737,400	\$19,737,400	18%	

Note(s):

- (1) Other Revenues includes: Other Licenses & Permits, Franchises, Forfeitures & Penalties, Other Governmental Agencies Payments, Other Charges for Services, Returned Checks, Capital Asset Sales, Non-Taxable Resale and Miscellaneous Revenues.

OC WASTE & RECYCLING Expenditures by Category FY 2015/2016 – 1st Quarter - July-September, 2015

Description	FY 15/16 Adopted Budget	FY 15/16 Modified Budget	FY 15/16 1st Quarter Actuals	FY 15/16 YTD Actuals	YTD Actuals (% of Adopted Budget)
Salaries & Employee Benefits	27,672,719		5,971,048	5,971,048	22%
Capital Project Spend-out	25,064,194		2,639,574	2,639,574	11%
Services & Supplies ^[1]	19,663,070		5,459,479	5,459,479	28%
Landfill Regulatory Compliance	11,739,750		4,914,160	4,914,160	42%
Facility Expenditures	6,498,975		973,729	973,729	15%
Equipment Purchases, Usage & Maintenance	21,250,850		8,267,801	8,267,801	39%
Taxes, Fees, Assessments ^[2]	8,011,650		204,544	204,544	3%
Recycling and Community Service Programs ^[3]	7,359,500		3,229,606	3,229,606	44%
Non-recurring Expense ^[4]	7,350,000		91,712	91,712	1%
Transfers-out to Other Funds	18,550		0	0	0%
Depreciation Expense & Capitalized Assets ^[5]	16,000,000		(29,467)	(29,467)	N/A
Total Expenditures ^[6]	\$150,629,258		\$31,722,184	\$31,722,184	21%

Note(s):

- 1) Includes Cost Applies, IT Professional Services, Multi-Disciplinary Engineering Support Services
- 2) Includes Excise Taxes and Host Fees for In-County Tonnage
- 3) Includes Hazardous Waste Services, Recycling Program & Community Outreach and Surcharge Program AB939
- 4) Expense includes \$3.7 million for Forster site remediation and \$3.1 million for cost share for La Pata Gap Closure project
- 5) Reversal of depreciation for disposed fixed assets
- 6) Does not include Operating Transfers between Fund 299 and Fund 273

OC WASTE & RECYCLING Cash Balances FY 2011/12 – 2015/16

FUND	Description	Fund Restricted Y/N	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16 As of 9/30/15
299	OC Waste & Recycling Enterprise / Operating	No	\$98.48M	\$93.27M	\$122.63M	\$145.66M	\$151.53M
272	Prima Deshecha Landfill & La Pata Avenue Gap Closure	Yes		\$0.10M	\$0.10M	\$0.10M	\$0.10M
273	Capital Project Fund	No	\$10.00M	\$25.42M	\$44.59M	\$24.63M	\$22.83M
274	Corrective Action Escrow	Yes	\$6.08M	\$6.11M	\$7.13M	\$8.17M	\$8.18M
275	Environmental Reserve (Liabilities)	No	\$62.24M	\$69.28M	\$69.73M	\$71.06M	\$72.58M
276	Deferred Payment Security Deposits	Yes	\$0.75M	\$0.70M	\$0.56M	\$0.54M	\$0.55M
277	Rate Stabilization	Yes	\$28.05M	\$28.15M	Closed	Closed	Closed
278	San Joaquin Marsh Escrow	Yes	\$3.12M	Closed	Closed	Closed	Closed
279	Landfill Post-Closure Maintenance	No	\$167.27M	\$145.97M	\$139.91M	\$148.57M	\$147.57M
284	Bee Canyon Landfill Escrow (Closure)	Yes	\$28.77M	\$28.88M	\$28.95M	\$29.05M	\$29.09M
285	Bankruptcy Recovery Plan	No	\$0.03M	\$1.18M	\$2.12M	\$6.26M	\$5.75M
286	Brea-Olinda Landfill Escrow (Closure)	Yes	\$38.34M	\$38.48M	\$38.58M	\$38.71M	\$38.76M
287	Prima Deshecha Landfill Escrow (Closure)	Yes	\$20.26M	\$20.34M	\$20.39M	\$20.46M	\$20.49M
288	FRB Wetland Creation & Agua Chinon Wash Riparian	Yes		\$0.88M	\$0.88M	\$0.88M	\$0.88M
	TOTAL		\$463.40M	\$458.77M	\$475.58M	\$494.11M	\$498.30M



Agenda Item 3 – *AB 939 Report – Isabel Rios, Manager, Manager, Educational Outreach & Recycling*

The purpose of the AB 939 Report is to update the Waste Management Commission on AB 939 programs, projects, and issues of mutual interest.

COUNTYWIDE COMMUNITY OUTREACH PARTNERSHIP PROGRAMS

OC Waste & Recycling (OCWR) and Discovery Cube (DC) partnered on developing the Eco Challenge exhibit as part of a mutual goal to educate the general public about waste diversion goals and encourage them to adopt habits to protect the environment in order to stimulate long-term behavioral change. As an extension of that goal, both organizations have a mutual interest in increasing the number of visitors to the Eco Challenge exhibit, thereby maximizing the educational reach and impact of the exhibit's messages and accelerating behavioral change.

Eco Challenge Summer Promotion

OCWR in partnership with Discovery Cube OC concluded the first Annual "Eco Challenge Summer" promotion on September 7, 2015. A total of fifty-one Orange County residents earned their stamps and were eligible receive one (1) Annual Family Membership to Discovery Cube by completing the three challenges listed below.

1. Visiting one of the County's HHW Centers to dispose of household hazardous waste
2. Bringing items for recycling to ONE Eco Challenge Recycling Event on July 25 or August 22, 2015
3. By using a free child admission coupon to visit the Eco Challenge exhibit at Discovery Cube OC

As part of the summer promotion, the fifty-one participants were also entered into a drawing to receive one (1) iPad Mini. Below are the five winners chosen at random selected from each of the five Supervisorial Districts in Orange County.

Supervisorial District	Contest Winners	Jurisdictions
District 1	Crystal Hernandez	Santa Ana
District 2	Beata Chen	Huntington Beach
District 3	Jeannette Scheppler	Anaheim
District 4	Andrew Fan	Fullerton
District 5	Kerri Boughton	Ladera Ranch

Take the America Recycles Day Pledge Campaign

The County of Orange, OCWR and Discovery Cube teamed up to celebrate America Recycles Day through social media campaign from November 9 – 15, 2015. Orange County ("OC") residents were encouraged to participate in the national event dedicated to educating and motivating millions of Americans to pledge to recycle by:

- A total of (10) took the pledge and receiving a free child admission to Discovery Cube to visit the County's Eco Challenge booth and exhibit.

- A total of (14) participated by sharing a recycling selfie on Facebook, Twitter, or Instagram for a chance to win a one-year family membership to Discovery Cube by tagging their photos with @discoverycubeoc and #OCRecyclingSelfie to enter. Reghan H. was randomly selected as the social media contest winner and won a one-year family membership to Discovery Cube.

In addition, on November 15, 2015, OC Waste & Recycling and the First District hosted America Recycles Day at Discovery Cube to educate OC families about the County's Eco Challenge program and the importance of reducing, reusing, and recycling in Orange County.

MISSION MEASUREMENT ONLINE SURVEY

The County of Orange and Discovery Cube has engaged Mission Measurement, a nationally recognized firm, to help further define our intended social outcomes and the ultimate impact that we are working towards. This engagement will set a foundation for the ongoing measurement of our programs to inform strategic decision-making and allow us to more effectively communicate impacts to our internal and external stakeholders.

As a critical step in the process, we are gathering perspectives from key stakeholders through an online survey and we hope you will take just a few minutes to share your perspective on some key questions. Please note that this survey is entirely confidential. Any feedback from it will be shared in aggregate, and direct quotes will not be attributed to any individual.

RECYCLING MARKET DEVELOPMENT ZONE

The Recycling Market Development Zone ("RMDZ") Agenda Staff Report was moved to December 8, 2015, as previously reported the Board of Supervisors will consider a resolution designating the County of Orange unincorporated area as a RMDZ. Doing so will allow the County of Orange to participate in the Orange County RMDZ program under the lead of the City of Huntington Beach. The Orange County RMDZ will include all incorporated cities within Orange County that choose to join the RMDZ. To date, Garden Grove, Huntington Beach, Orange, Santa Ana, and Stanton have formally expressed their desire to participate in the Orange County RMDZ.

Approval of this item supports the County of Orange's goal of being a regional leader, as defined in the Countywide Integrated Waste Management Plan. Participation in the RMDZ enables businesses in participating jurisdictions to access low-interest loans and encourages the jurisdictions to promote sustainable economic incentives through public-private partnerships. Such partnerships align with OC Waste & Recycling's strategic initiatives.

COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN SUBCOMMITTEE

On September 24, 2015, the Countywide Integrated Waste Management Plan (CIWMP) subcommittee meeting was held to discuss revisions requested by subcommittee members. The CIWMP report will be presented to the Waste Management Commission on December 10, 2015. CIWMP Subcommittee Chair Rob Johnson will provide an update in a separate agenda item during the Waste Management Commission meeting.

Recommended Action: Receive and file report.



Thursday, December 10, 2015

Agenda Item 4 – *Legislative and Regulatory Report –Lisa Keating, Manager of Waste Disposal Contracts & Recycling Programs*

This report provides the Waste Management Commission regular updates on the California Legislature as it pertains to solid waste management and OC Waste & Recycling's participation in regulatory activities.

California Legislature

The Legislature is currently in recess, scheduled to return January 4, 2016. The attached Legislative Report includes a summary of key bills introduced in 2015. These bills are identified as Chaptered, becoming effective January 1, 2016, or as 2-Year bills, which may be addressed when the Legislature reconvenes.

Recommended Action: Receive and file report.

Attachment:

Attachment A – Legislative & Regulatory Update

OC Waste & Recycling Legislative & Regulatory Update

Bill ID/Topic	Status	Summary
AB 45 Mullin D Household hazardous waste.	2 YEAR	<p>This bill would require each jurisdiction that provides for the residential collection and disposal of solid waste to:</p> <ul style="list-style-type: none"> • Increase the collection and diversion of household hazardous waste in its service area, on or before July 1, 2020, by 15% over a baseline amount; and, • Annually report to the department on progress achieved. <p>The bill would authorize CalRecycle to adopt a model ordinance for a comprehensive program for the collection of household hazardous waste to facilitate compliance with those provisions. By imposing new duties on local agencies, the bill would impose a state-mandated local program. Last Amended on 4/30/2015</p>
AB 876 McCarty D Compostable organics.	CHAPTERED	<p>This bill requires, commencing August 1, 2017, a county or regional agency to include in its annual report to CalRecycle:</p> <ul style="list-style-type: none"> • An estimate of the amount of organic waste in cubic yards that will be generated in the county or region over a 15-year period; • An estimate of the additional organic waste recycling facility capacity in cubic yards that will be needed to process that amount of waste; and, • Areas identified by the county or regional agency as locations for new or expanded organic waste recycling facilities capable of safely meeting that additional need.
AB 901 Gordon D Solid waste: reporting requirements: enforcement.	CHAPTERED	<p>This bill revises existing reporting provisions as follows:</p> <ul style="list-style-type: none"> • Recycling and composting operations and facilities would submit specified information directly to CalRecycle, rather than to counties; • Disposal facility operators would submit tonnage information to CalRecycle, and to counties only on request; • Counties are not required to submit information to cities, regional agencies and CalRecycle; and, • Exporters, brokers, and transporters of recyclables or compost would submit periodic information to CalRecycle on the types, quantities, and destinations of materials that are disposed of, sold, or transferred inside or outside of the state, and would authorize the department to provide this information, on an aggregated basis (not by generating city), to jurisdictions. <p>In addition, this bill:</p> <ul style="list-style-type: none"> • Provides civil penalties on any person who files a false report, refuses to permit CalRecycle to inspect or examine records or alters, cancels or obliterates records; • Specifies the types of waste disposal records that are subject to inspection and copying by the department, and also by an employee of a government entity, as defined, with respect to tonnage received at a disposal facility on or after July 1, 2015, that originates within the government entity's geographic jurisdiction; • Prohibits a government entity from disclosing the name of a waste hauler using a specific landfill unless necessary as part of an administrative or judicial proceeding, as specified; and, • Authorizes a government entity to petition the Superior Court for injunctive or declaratory relief to enforce these provisions.

Bill ID/Topic	Status	Summary
AB 1045 Irwin D Organic waste: composting.	CHAPTERED	This bill requires State agencies to develop and implement policies to aid in diverting organic waste from landfills by promoting the composting of specified organic waste and the appropriate use of that compost with a goal of reducing greenhouse gas emissions by at least 5 million metric tons per year.
AB 1063 Williams D Solid waste: charges.	2 YEAR	This bill would raise the fee imposed on an operator of a disposal facility to \$4 per ton commencing January 1, 2017. The bill would require a minimum of \$1.50 per ton of the fee collected from each operator, until January 1, 2022, and would authorize some or all of the fee collected thereafter, to be allocated to activities that promote recycling and the highest and best use of materials, as specified. Last Amended on 8/17/2015
AB 1103 Dodd D Solid waste: organic waste.	2 YEAR	This bill would require a person who transports a certain amount of food waste to be registered by CalRecycle, except as specified. The registered transporter must maintain an accurate record of the quantity of food waste transported, at least quarterly, and to certify, under penalty of perjury, to the accuracy of the record. The bill would authorize the imposition of fees on registered transporters for vehicles used to transport food waste for the administration of this program. The bill would require a jurisdiction or other local governmental agency to inspect vehicles that are used by transporters to transport food waste. By imposing additional duties on local governmental agencies, the bill would impose a state-mandated local program. Last Amended on 7/16/2015
AB 1159 Gordon D Product stewardship: pilot program	2 YEAR	This bill would establish the Product Stewardship Pilot Program and, until January 1, 2024, would require producers and product stewardship organizations of home-generated sharps waste or household batteries, to develop and implement a product stewardship plan, as specified. Last Amended on 4/21/2015
SB 32 Pavley D California Global Warming Solutions Act of 2006.	2 YEAR	This bill would require the State board to approve a Statewide greenhouse gas emissions limit equal to 1990 emissions levels by 2020 and 40% below the 1990 level by 2030. Last Amended on 9/10/2015
SB 350 De Leon D Clean Energy and Pollution Reduction Act of 2015	CHAPTERED	This law establishes the California Renewables Portfolio Standards (RPS) Program, which is codified in the Public Utilities Act, with the target to increase the amount of electricity generated per year from eligible renewable energy resources to at least 33% of the total electricity sold to retail customers each year by December 31, 2020, and increasing to 50% by December 31, 2030.



Thursday, December 10, 2015

Agenda Item 5 –*Subcommittee Reports*

Renewable Technologies Subcommittee, CIWMP 5-Year Review Subcommittee, Legislative & Regulatory Subcommittee, Finance Committee

Summary

Subcommittee members will report on their respective meetings:

Renewable Technologies Subcommittee
CIWMP 5-Year Review Subcommittee
Finance Committee

Vice Chair Shawver
Commissioner Johnson
Commissioner Krishan

Should you have any questions or would like additional information regarding the subcommittees, please contact the following staff members:

Renewable Technologies Subcommittee:	Jeff Arbor, Environmental Compliance & Closed Sites Manager (714) 834-4056
CIWMP 5-Year Review Subcommittee:	Isabel Rios, Material Regulations and Recycling Programs Manager (714) 834-4118
Legislative & Regulatory Subcommittee	Lisa Keating, Waste Disposal Contracts & Recycling Programs Manager (714) 834-5513
Finance Committee	Alan Yuki, Budget and Landfill Administration Services (714) 834-4161

Recommended Action:

1. Approve the Countywide Integrated Waste Management Program (CWIMP) Five-Year Review Report;
2. Approve the minutes from the CIWMP 5-Year Subcommittee, transmittal of the Local Task Force comment letter and the CIWMP 5-Year Review Report to the California Department of Resource Recycling and Recovery (CalRecycle), as well as the 34 cities in Orange County;
3. Receive and file CIWMP Five-Year Review Report.
4. Receive and file the reports from the CIWMP 5-Year Review Subcommittee, Renewable Technologies Subcommittee, and the Finance Committee.

Attachment:

1. Countywide Integrated Waste Management Program (CIWMP) Five-Year Review Report



December 10, 2015

Jennifer Wallin
Environmental Program Manager I
Department of Resources Recycling and Recovery (CalRecycle)
Local Assistance and Market Development Branch - South Section
2929 E. Willow Street
Long Beach, CA 90806

Dear Ms. Wallin:

Subject: Orange County Five-Year Countywide Integrated Waste Management Plan (CIWMP) Review

On behalf of the County of Orange and its 34 cities, please find attached a copy of the third Five-Year CIWMP Review Report. In conformance with Section 41822 of the Public Resources Code (PRC), the County has reviewed the CIWMP.

The original CIWMP was approved by the CIWMB in March 1996. Subsequent CIWMP Five Year reviews were completed in March 2003, September 2007, and March 2011.

The County's Waste Management Commission/AB939 Local Task Force (LTF) appointed the CIWMP subcommittee to review the Report within the time frame specified in Section 18788 of Title 14 of the California Code of Regulations (CCR). The ad hoc committee submitted written comments to the County and they have been incorporated into the Report.

The County finds that a CIWMP revision is not necessary at this time. Guided by the current CIWMP subcommittee, the County and its 34 cities will continue to implement programs and strive to fulfill the goals of the Integrated Waste Management Act.

Please contact Isabel Rios at (714) 834-4118 should you have any questions.

Respectfully submitted,

Isabel Rios
OC Waste & Recycling

cc: Waste Management Commission/Local Task Force
Dylan Wright, Director, OC Waste & Recycling
Shaw Lin, Deputy Director, Business Services, OC Waste & Recycling
Mallory Burden, CalRecycle, Office of Local Assistance
Kathryn Ferrer, CalRecycle, Office of Local Assistance

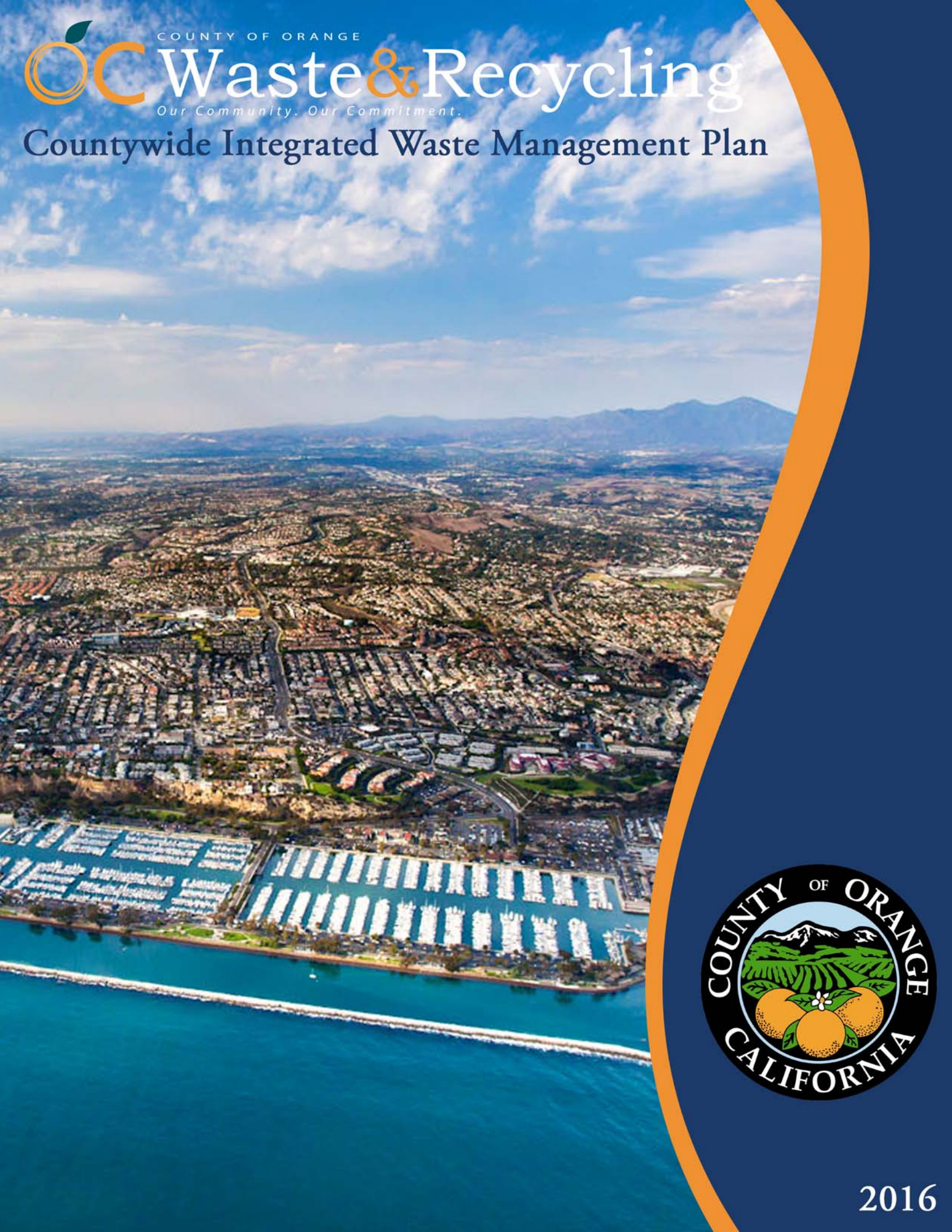


COUNTY OF ORANGE

Waste & Recycling

Our Community. Our Commitment.

Countywide Integrated Waste Management Plan



2016

Five-Year CIWMP/RAIWMP Review Report Template

Public Resources Code (PRC) Sections 41770 and 41822, and Title 14, California Code of Regulations (CCR) Section 18788 require that each countywide or regional agency integrated waste management plan (CIWMP or RAIWMP), and the elements thereof, be reviewed, revised if necessary, and submitted to the Department of Resources Recycling and Recovery (CalRecycle) every five years. CalRecycle developed this Five-Year CIWMP/RAIWMP Review Report template to streamline the Five-Year CIWMP/RAIWMP review, reporting, and approval process.

A county or regional agency may use this template to document its compliance with these regulatory review and reporting requirements and as a tool in its review, including obtaining Local Task Force (LTF) comments on areas of the CIWMP or RAIWMP that need revision, if any. This template also can be finalized based on these comments and submitted to CalRecycle as the county or regional agency's Five-Year CIWMP or RAIWMP Review Report.

The [Five-Year CIWMP/RAIWMP Review Report Template Instructions](#) describe each section and provide general guidelines with respect to preparing the report. Completed and signed reports should be submitted to the CalRecycle's Local Assistance & Market Development (LAMD) Branch at the address below. Upon report receipt, LAMD staff may request clarification and/or additional information if the details provided in the report are not clear or are not complete. Within 90 days of receiving a *complete* Five-Year CIWMP/RAIWMP Review Report, LAMD staff will review the report and prepare their findings for CalRecycle consideration for approval.

If you have any questions about the Five-Year CIWMP/RAIWMP Review Report process or how to complete this template, please contact your LAMD representative at (916) 341-6199. Mail the completed and signed Five-Year CIWMP/RAIWMP Review Report to:

Dept. of Resources Recycling & Recovery
Local Assistance & Market Development, MS-9
P. O. Box 4025
Sacramento, CA 95812-4025

To edit & customize this template, the editing restrictions (filling in forms) must be disengaged. Select the Review tab, Protect Document, and then Restrict Formatting and Editing (uncheck editing restrictions). There is no password (options). Please contact your LAMD representative at (916) 341-6199 with related questions.

General Instructions: Please complete Sections 1 through 7, and all other applicable subsections. Double click on shaded text/areas to select or add text.

SECTION 1.0 COUNTY OR REGIONAL AGENCY INFORMATION			
I certify that the information in this document is true and correct to the best of my knowledge, and that I am authorized to complete this report and request approval of the CIWMP or RAIWMP Five-Year Review Report on behalf of:			
County or Regional Agency Name County of Orange		County(s) [if a RAIWMP Review Report] Orange	
Authorized Signature		Title Manager, Educational Outreach & Recycling	
Type/Print Name of Person Signing Isabel Rios		Date	Phone (714) 834-4118
Person Completing This Form (please print or type) Same as above		Title	Phone
Mailing Address 300 North Flower Street, Suite 400	City Santa Ana	State CA	Zip 92703
E-mail Address Isabel.Rios@ocwr.ocgov.com			

TABLE OF CONTENTS

<u>Section</u>	<u>Description</u>	<u>Page</u>
2.0	<u>BACKGROUND</u>	<u>3</u>
3.0	<u>LOCAL TASK FORCE REVIEW</u>	<u>3</u>
4.0	<u>TITLE 14, CALIFORNIA CODE of REGULATIONS</u> <u>SECTION 18788 (3) (A) THROUGH (H) ISSUES</u>	<u>3</u>
4.1	<u>Changes in Demographics in the County or Regional Agency</u>	<u>5</u>
4.2	<u>Changes in Quantities of Waste within the County or Regional Agency; and Changes in Permitted Disposal Capacity and Quantities of Waste Disposed in the County or Regional Agency</u>	<u>9</u>
4.3	<u>Changes in Funding Source for Administration of the Siting Element and Summary Plan</u>	<u>14</u>
4.4	<u>Changes in Administrative Responsibilities</u>	<u>14</u>
4.5	<u>Programs that were Scheduled to be Implemented but Were Not</u>	<u>14</u>
4.6	<u>Changes in Available Markets for Recyclable Materials</u>	<u>15</u>
4.7	<u>Changes in the Implementation Schedule</u>	<u>16</u>
5.0	<u>OTHER ISSUES (optional)</u>	<u>16</u>
6.0	<u>ANNUAL REPORT REVIEW</u>	<u>16</u>
7.0	<u>REVISION SCHEDULE</u>	<u>17</u>

SECTION 2.0 BACKGROUND

This is the County's Fourth Five-Year Review Report since the approval of the CIWMP.

The following changes have occurred since the approval of the County's planning documents or the last Five-Year CIWMP Review Report (whichever is most recent):

- | | |
|---|---|
| <input type="checkbox"/> Diversion goal reduction | <input type="checkbox"/> New city (name(s)) |
| <input type="checkbox"/> New regional agency | X Other <u>No changes</u> |
| <input type="checkbox"/> Changes to regional agency | |

Additional Information (optional)

There have been no city or regional agency changes since the approval of the County's last Five-Year CIWMP Review Report.

SECTION 3.0 LOCAL TASK FORCE REVIEW

LOCAL TASK FORCE

Name	Representative Of (e.g., City or County)
Deepak J. Krishan	Board of Supervisors, First District
Michele Martinez	Board of Supervisors, First District
Xuan-Nhi Van Ho	Board of Supervisors, First District
Joe Carchio	Board of Supervisors, Second District
Rob Johnson	Board of Supervisors, Second District
Tina Nieto	Board of Supervisors, Second District
Mike Alvarez	Board of Supervisors, Third District
Donald R. Froelich	Board of Supervisors, Third District
Steve Chavez Lodge	Board of Supervisors, Third District
Charles Kim	Board of Supervisors, Fourth District
Christine Marick	Board of Supervisors, Fourth District
Chad Wanke	Board of Supervisors, Fourth District/Chair
Cynthia Connors	Board of Supervisors, Fifth District
Joe Soto	Board of Supervisors, Fifth District
Mark Tettermer	Board of Supervisors, Fifth District
David J. Shawver	League, at Large/Vice-Chair
Doug Chotkevys	Representative, City Managers'

CIWMP - SUBCOMMITTEE

Name	Representative Of (e.g., City or County)
Joe Carchio	Board of Supervisors, Second District
Rob Johnson, Chair	Board of Supervisors, Second District
Deepak J. Krishan, V.Chair	Board of Supervisors, First District
Isabel Rios	OC Waste & Recycling
David J. Shawver	League, at Large/Vice-Chair

FINANCE - SUBCOMMITTEE

Name	Representative Of (e.g., City or County)
Mike Alvarez	Board of Supervisors, Third District
Joe Carchio	Board of Supervisors, Second District
Deepak J. Krishan	Board of Supervisors, First District
David J. Shawver	League, at Large/Vice-Chair
Shaw Lin	OC Waste & Recycling
Alan Yuki	OC Waste & Recycling

LEGISLATION AND REGULATIONS - SUBCOMMITTEE

Name	Representative Of (e.g., City or County)
Doug Chothevys	Representative, City Manager's
Steve Chavez Lodge	Board of Supervisors, Third District
Jesus Perez	OC Waste & Recycling
David J. Shawver	League, at Large/Vice-Chair

RENEWABLE TECHNOLOGY - SUBCOMMITTEE

Name	Representative Of (e.g., City or County)
Jeff Arbour	OC Waste & Recycling
Donald R. Froelich	Board of Supervisors, Third District
Tina Nieto	Board of Supervisors, Second District
David J. Shawver	League, at Large/Vice-Chair

WASTE IMPORTATION - SUBCOMMITTEE

Name	Representative Of (e.g., City or County)
Donald R. Froelich	Board of Supervisors, Third District
Michele Martinez	Board of Supervisors, First District

- a. In accordance with Title 14 CCR, Section 18788, the Local Task Force (LTF) reviewed each element and plan included in the CIWMP and finalized its comments:

X at the 12/10/15 LTF meeting. ☐ Electronically (fax, e-mail) ☐ other (Explain): _____

- b. The County received the written comments from the LTF on 12/10/15.

- c. A copy of the LTF comments/findings

X is included as Appendix A.

☐ was submitted to CalRecycle on _____.

**SECTION 4.0 TITLE 14, CALIFORNIA CODE of REGULATIONS SECTION 18788 (3)
(A) THROUGH (H)**

The subsections below address not only the areas of change specified in the regulations, but also provide specific analyses regarding the continued adequacy of the planning documents in light of those changes, including a determination on any need for revision to one or more of the planning documents.

Section 4.1 Changes in Demographics in the County or Regional Agency

When preparing the CIWMP Review Report, the county or regional agency must address at least the changes in demographics.

The following resources are provided to facilitate this analysis:

1. Demographic data, including population, taxable sales, employment, and consumer price index by jurisdiction for years up to 2006, are available at:

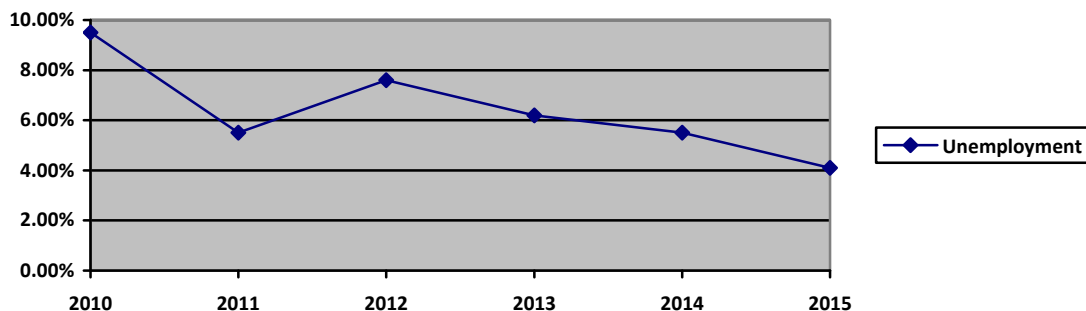
<http://www.calrecycle.ca.gov/LGCentral/Tools/DivMeasure/JuAdjFac.asp>. Data for years beyond 2006 can be found on the following websites:

- Population: [Department of Finance](#)
- Taxable Sales: [Board of Equalization](#)
- Employment: [Employment Development Department](#) Click on the link to Local Area Profile, select the county from the drop down menu, then click on the “View Local Are Profile” button.
- Consumer Price Index: [Department of Industrial Relations](#)

COUNTY OF ORANGE DEMOGRAPHIC INFORMATION							
Year	Consumer Price Index (CPI)	CPI Measurement Level *	Population	Taxable Sales (x \$1,000)	Labor Force Employment*	Industry Employment*	Unemployment
2010	225.894	LA	3,010,232	47,667,179	1,592,500	1,441,500	9.5%
2011	231.928	LA	3,028,846	51,731,139	1,600,100	1,460,100	5.5%
2012	236.648	LA	3,057,233	55,230,612	1,618,700	1,496,000	7.6 %
2013	239.207	LA	3,087,715	57,591,217	1,610,900	1,510,600	6.2%
2014	242.434	LA	3,114,209	58,021,978	1,573,800	1,487,400	5.5%
*2015	245.812	LA	3,147,655	*NA	1,585,900	1,520,600	4.1%

Foot note: *Consumer Price Index as of October 2015

*Taxable Sales for 2015 not available



From California State Board of Equalization: <http://www.boe.ca.gov/news/tsalescont.htm>

2. The [Demographic Research Unit](#) of the California Department of Finance is designated as the single official source of demographic data for State planning and budgeting (e.g., find E-5 City/County Population and Housing Estimates under Reports and Research Papers and then Estimates).

ORANGE COUNTY DWELLINGS 2010-2014									
Jurisdiction	2010 Single Family Dwellings	2014 Single Family Dwellings	% Change	2010 Multi- Family Dwellings	2014 Multi- Family Dwellings	% Change	2010 Mobile Homes	2014 Mobile Homes	% Change
Aliso Viejo	11,788	12,269	4.08	7,073	7,073	0.00	0	0	0.00
Anaheim	53,721	53,843	0.23	45,831	47,459	3.55	4,685	4,685	0.00
Brea	9,758	10,154	4.06	3,984	4,501	12.98	1,004	1,004	0.00
Buena Park	16,133	16,207	0.46	8,134	8,152	0.22	353	353	0.00
Costa Mesa	20,904	20,940	0.17	20,286	20,290	0.02	930	930	0.00
Cypress	12,389	12,443	0.44	3,258	3,264	0.18	421	421	0.00
Dana Point	10,701	10,723	0.21	5,005	5,005	0.00	232	236	0.00
Fountain Valley	14,497	14,614	0.81	4,276	4,276	0.00	391	391	0.00
Fullerton	29,103	29,193	0.31	17,918	18,324	2.27	880	880	0.00
Garden Grove	31,270	31,275	0.02	14,844	14,821	-0.15	1,628	1,628	0.00
Huntington Beach	47,631	48,077	0.94	27,285	28,152	3.18	3,087	3,087	0.00
Irvine	47,723	50,652	6.14	32,222	38,745	20.24	1,165	1,165	0.00
La Habra	12,010	12,143	1.11	7,020	7,000	-0.28	889	891	0.22
La Palma	4,235	4,233	-0.05	976	988	1.23	13	13	0.00
Laguna Beach	9,178	9,223	0.49	3,456	3,450	-0.17	289	289	0.00
Laguna Hills	8,312	8318	0.07	2,325	2,325	0.00	352	352	0.00
Laguna Niguel	19,485	19597	0.57	5,779	5779	0.00	48	48	0.00
Laguna Woods	4,639	4639	0.00	8,440	8,400	-0.47	0	0	N/A
Lake Forest	18,804	18900	0.51	7,020	7,081	0.87	1,275	1275	0.00
Los Alamitos	2,447	2,463	0.65	1,810	1,816	0.33	98	101	3.06
Mission Viejo	28,830	28,975	0.50	5,274	5,274	0.00	51	51	0.00
Newport Beach	27,117	27,176	0.22	15,902	15,879	-0.14	1,174	1,174	0.00
Orange	30,838	30,913	0.24	13,042	13,136	0.72	1,222	1,222	0.00
Placentia	11,949	12,001	0.44	4,346	4,471	2.88	586	586	0.00
Rancho Santa Margarita	12,885	12,909	0.19	4,365	4,365	0.00	10	10	0.00
San Clemente	17,402	17,453	0.29	7,967	7,971	0.05	597	601	0.67
San Juan Capistrano	8,682	8,902	2.53	1,874	1,874	0.00	1,384	1,384	0.00
Santa Ana	41,081	41,156	0.18	31,789	31,928	0.44	4,049	4,049	0.00

Jurisdiction	2010 Single Family Dwellings	2014 Single Family Dwellings	% Change	2010 Multi- Family Dwellings	2014 Multi- Family Dwellings	% Change	2010 Mobile Homes	2014 Mobile Homes	% Change
Seal Beach	6,263	6,252	-0.18	8,140	8,132	-0.10	155	155	0.00
Stanton	4,812	4,861	1.02	5,033	5,000	-0.66	1,438	1,438	0.00
Tustin	12,752	13,017	2.08	12,815	13,031	1.69	909	909	0.00
Villa Park	2,008	2,012	0.20	8	8	0.00	0	0	0.00
Westminster	16,955	16,972	0.10	7,550	7,610	0.79	3,145	3,145	0.00
Yorba Linda	19,675	20,202	2.68	2,202	2,226	1.09	428	428	0.00
Orange- Unincorporated	34,532	34,433	-0.29	4,770	4,440	-6.92	635	633	-0.31
Totals	660,509	667,140	1.00%	347,310	362,286	4.31%	32,888	32,901	0.04%

*Note: The percentages were calculated by comparing 2010 figures to 2014 figures.

Source: City/County Population And Housing Estimates with 2010 Census Counts (CA Department of Finance), E-5 Population and Housing Estimates for Cities, Counties, and the State, January 2011- 2014, with 2010 Benchmark. E-5 City / County Population and Housing Estimates, 2014 (CA Department of Finance).

3. The Department of Finance's Demographic Research Unit also provides a list of [State Census Data Center Network Regional Offices](#).

- Population: [Department of Finance](#) : <http://www.dof.ca.gov/research/demographic/reports/estimates/e-4/2011-20/view.php>

POPULATION			
Population For Each Jurisdiction	2010	2014	% Change
Aliso Viejo	46,123	49,951	8.30
Anaheim	353,643	348,305	-1.51
Brea	40,377	42,397	5.00
Buena Park	84,141	82,344	-2.14
Costa Mesa	117,178	111,846	-4.55
Cypress	49,981	48,886	-2.19
Dana Point	37,326	34,037	-8.81
Fountain Valley	58,741	56,702	-3.47
Fullerton	138,610	140,131	1.10
Garden Grove	175,618	173,953	-0.95
Huntington Beach	203,484	195,999	-3.68

Irvine	217,686	242,651	11.47
La Habra	63,184	61,717	-2.32
La Palma	16,304	15,896	-2.50
Laguna Beach	25,354	23,225	-8.40
Laguna Hills	33,593	30,857	-8.14
Laguna Niguel	67,666	64,460	-4.74
Laguna Woods	18,747	16,581	-11.55
Lake Forest	78,720	79,139	0.53
Los Alamitos	12,270	11,729	-4.41
Mission Viejo	100,725	95,334	-5.35
Newport Beach	86,738	86,874	0.16
Orange	142,708	139,279	-2.40
Placentia	52,305	52,094	-0.40
Rancho Santa Margarita	49,945	48,834	-2.22
San Clemente	68,763	64,874	-5.66
San Juan Capistrano	37,233	35,900	-3.58
Santa Ana	357,754	331,953	-7.21
Seal Beach	26,010	24,591	-5.46
Stanton	39,799	38,963	-2.10
Tustin	75,773	78,360	3.41
Villa Park	6,307	5,935	-5.90
Westminster	94,273	91,652	-2.78
Yorba Linda	69,273	67,069	-3.18
Orange-Unincorporated	120,088	121,473	1.15
Countywide Population	3,168,450	3,116,005	-1.66%

Analysis

Upon review of demographic changes since 1990.

- ☒ The demographic changes since the development of the CIWMP do not warrant a revision to any of the Countywide planning documents.
- ☐ These demographic changes since the development of the CIWMP warrant a revision to one or more of the countywide planning documents. See Section 7 for the revision schedule(s).

Additional Analysis (optional)

- Unemployment is down from 9.5% in 2010 to 4.1% in 2014. While there are some peaks, the overall trend shows that unemployment is declining. The decrease in unemployment also results in a decline in self-haul tonnage at Orange County landfills.
- Since the majority of jurisdictions in Orange County offer both curbside residential recycling and green waste bins and/or specialized Material Recovery Facilities (“MRFs”) that receive, separate and prepare recycled materials for marketing to end-user

manufacturer, MRFs, the slight increased percentage in single family homes has been incorporated into the existing waste and recycling programs.

- The data in section 4.1 - Changes in Demographics in the County or Regional Agency indicates the changes in the County of Orange have been increases in population in the multi-family residences. Multi-family and commercial waste management has been an on-going issue with many of the larger cities, including challenges such as limited space for recycling bins, and/or the increased financial cost to operate such programs.

Section 4.2 Changes in Quantities of Waste within the County or Regional Agency; and Changes in Permitted Disposal Capacity and Waste Disposed in the County or Regional Agency

A number of tools to facilitate the analysis and review of such changes in the waste stream are available from the following CalRecycle sources:

1. Various statewide, regional, and local disposal reports are available at <http://www.calrecycle.ca.gov/LGCentral/Reports/DRS/Default.aspx>.
 - a. CalRecycle's [Disposal Reporting System](#) tracks and reports the annual estimates of the disposal amounts for jurisdictions in California; additional California solid waste [statistics](#) are also available.
 - b. CalRecycle's [Waste Flow by Destination or Origin](#) reports include solid waste disposal, export, and alternative daily cover. They show how much waste was produced within the boundaries of an individual city, or within all jurisdictions comprising a county or regional agency. These data also cover what was disposed at a particular facility or at all facilities within a county or regional agency.
2. The [Waste Characterization Database](#) provides estimates of the types and amounts of materials in the waste streams of *individual California jurisdictions* in 1999. For background information and more recent statewide characterizations, please see <http://www.calrecycle.ca.gov/WasteChar/WasteStudies.htm>
3. CalRecycle's [Countywide, Regionwide, and Statewide Jurisdiction Diversion Progress Report](#) provides both summary and detailed information on compliance, diversion rates/50 percent equivalent per capita disposal target and rates, and waste diversion program implementation for all California jurisdictions. The diversion program implementation summaries are available at the following link:
<http://www.calrecycle.ca.gov/lgcentral/reports/diversionprogram/jurhist.aspx>.

Together, these reports help illustrate changes in the quantities of waste within the county or regional agency as well as in permitted disposal capacity. This information also summarizes each jurisdiction's progress in implementing the Source Reduction and Recycling Element (SRRE) and complying with the 50 percent diversion rate requirement (now calculated as the 50 percent equivalent per capita disposal target), see [Per Capita Disposal and Goal Measurement \(2007 and Later\)](#) for details.

Tons Per Year	2010	2011	2012	2013	2014	% Change 2010-2014
Aliso Viejo	18,469	18,620	17,394	18,664	17,911	-3.02
Anaheim	373,358	358,148	354,264	357,907	401,153	7.44
Brea	63,266	67,341	65,658	77,999	57,082	-9.77
Buena Park	63,186	63,395	62,686	64,238	67,060	6.13
Costa Mesa	124,092	116,354	107,012	102,212	98,467	-20.65
Cypress	54,539	60,576	97,773	57,907	49,722	-8.83
Dana Point	30,958	27,703	25,479	26,721	28,387	-8.30
Fountain Valley	36,830	34,473	42,540	49,573	67,872	84.28
Fullerton	113,210	109,106	108,886	111,243	158,624	40.11
Garden Grove	167,908	180,856	184,301	199,158	204,683	21.90
Huntington Beach	171,338	164,379	161,512	170,101	182,695	6.63
Irvine	218,819	224,525	222,777	237,320	238,844	9.15
La Habra	54,169	54,519	46,733	45,329	45,177	-16.60
La Palma	9,168	8,494	8,666	8,974	9,013	-1.69
Laguna Beach	31,630	31,492	30,021	29,788	31,846	0.68
Laguna Hills	19,382	19,900	19,131	19,638	20,162	4.02
Laguna Niguel	41,309	38,189	35,725	38,083	37,925	-8.19
Laguna Woods	12,839	14,466	13,313	11,010	8,725	-32.04
Lake Forest	68,369	64,793	63,834	63,861	64,685	-5.39
Los Alamitos	19,216	17,519	16,004	16,012	16,949	-11.80
Mission Viejo	65,270	63,413	61,920	66,861	66,617	2.06
Newport Beach	87,018	88,269	94,642	100,476	106,168	22.01
Orange	149,087	140,549	137,253	135,167	134,335	-9.89
Placentia	43,422	46,802	43,775	41,292	44,672	2.88
Rancho Santa Margarita	31,560	29,083	28,483	28,102	29,579	-6.28
San Clemente	49,028	45,142	44,188	45,037	47,670	-2.77
San Juan Capistrano	34,793	34,174	32,611	31,781	34,068	-2.08
Santa Ana	295,377	283,388	286,676	296,358	290,259	-1.73
Seal Beach	21,012	23,171	22,241	22,177	24,579	16.98
Stanton	57,061	37,121	35,507	51,384	43,364	-24.00
Tustin	63,386	41,986	38,288	39,423	40,675	-35.83
Villa Park	5,518	5,605	6,157	5,413	5,290	-4.13
Westminster	54,770	57,250	53,170	57,129	54,025	-1.36
Yorba Linda	52,449	52,303	37,430	47,303	53,748	2.48
Orange-Uni. County	102,005	96,132	89,646	84,062	111,485	9.29
Countywide	2,803,813	2,719,237	2,695,718	2,757,703	2,893,518	3.20

TONS OF WASTE DISPOSED PER YEAR PER CITY IN ALL OC LANDFILLS

ORANGE COUNTY DIVERSION RATES BY JURISDICTION 2010-2014 *						
Jurisdiction	City Targets (50% equivalent Issued by CalRecycle	2010 Annual - (Disposal pounds/ population)	2011 Annual - (Disposal pounds/ population)	2012 Annual - (Disposal pounds/ population)	2013 Annual - (Disposal pounds/ population)	2014* Annual - (Disposal pounds/ population)
Aliso Viejo	3.3	2.1	2.1	1.9	2.1	2.0
Anaheim	8.2	6.1	5.8	5.6	5.7	6.3
Brea	11.5	8.8	9.2	8.8	10.3	7.4
Buena Park	6.3	4.3	4.3	4.2	4.3	4.4
Costa Mesa	8.5	6.1	5.8	5.3	5.1	4.8
Cypress	9.0	6.3	6.9	6.0	6.5	5.6
Dana Point	7.3	5.1	4.5	4.1	4.3	4.6
Fountain Valley	6.9	3.7	3.4	4.2	4.8	6.6
Fullerton	7.9	4.6	4.4	4.3	4.4	6.2
Garden Grove	6.6	5.4	5.8	5.8	6.3	6.5
Huntington Beach	10.4	4.9	4.7	4.6	4.8	5.1
Irvine	10.1	5.7	5.6	5.5	5.7	5.4
La Habra	6.5	5.0	4.9	4.2	4.1	4.0
La Palma	5.1	3.2	3.0	3.0	3.1	3.1
Laguna Beach	12.7	7.6	7.4	7.2	7.1	4.2
Laguna Hills	5.8	3.5	3.6	3.4	3.5	3.6
Laguna Niguel	6.6	3.6	3.3	3.1	3.3	3.2
Laguna Woods	3.9	4.3	4.9	4.5	3.7	2.9
Lake Forest	10.6	4.9	4.6	4.5	4.4	4.5
Los Alamitos	10.8	9.2	8.4	4.7	7.6	8.0
Mission Viejo	5.7	3.8	3.7	3.6	3.9	3.9
Newport Beach	9.6	5.6	5.7	6.0	6.4	6.7
Orange	10.1	6.0	5.6	5.4	5.3	5.3
Orange- Unincorporated	5.9	4.6	4.3	4.1	3.8	5.0
Placentia	7.3	4.7	5.1	4.7	4.4	4.7
Rancho Santa Margarita	4.8	3.6	3.3	3.2	3.2	3.3
San Clemente	7.1	4.2	3.9	3.8	3.8	3.7
San Juan Capistrano	11.8	5.5	5.4	5.1	4.9	5.2
Santa Ana	7.5	5.0	4.8	4.8	4.9	4.8
Seal Beach	8.4	4.8	5.3	5.0	5.0	5.5
Stanton	6.7	8.2	5.3	5.1	6.0	6.1
Tustin	6.5	4.6	3.1	2.7	2.8	2.9
Villa Park	9.2	5.2	5.3	5.8	5.0	4.9

Westminster	6.3	3.3	3.5	3.2	3.4	3.2
Yorba Linda	7.8	4.5	4.4	3.1	3.9	4.4
Countywide Average	7.79	5.09	4.89	4.59	4.79	

•

*2014 Data is preliminary and not confirmed by CalRecycle as of date of Review Report.

- ☒ The county or regional agency (if it includes the entire county) continues to have adequate disposal capacity (i.e., equal to or greater than 15 years).
- ☐ The county does not have 15 years remaining disposal capacity within its physical boundaries, but the Siting Element does provide a strategy¹ for obtaining 15 years remaining disposal capacity.
- ☐ The county does not have 15 years remaining disposal capacity and the Siting Element does not provide a strategy² for obtaining 15 years remaining disposal capacity. See Section 7 for the revision schedule(s).

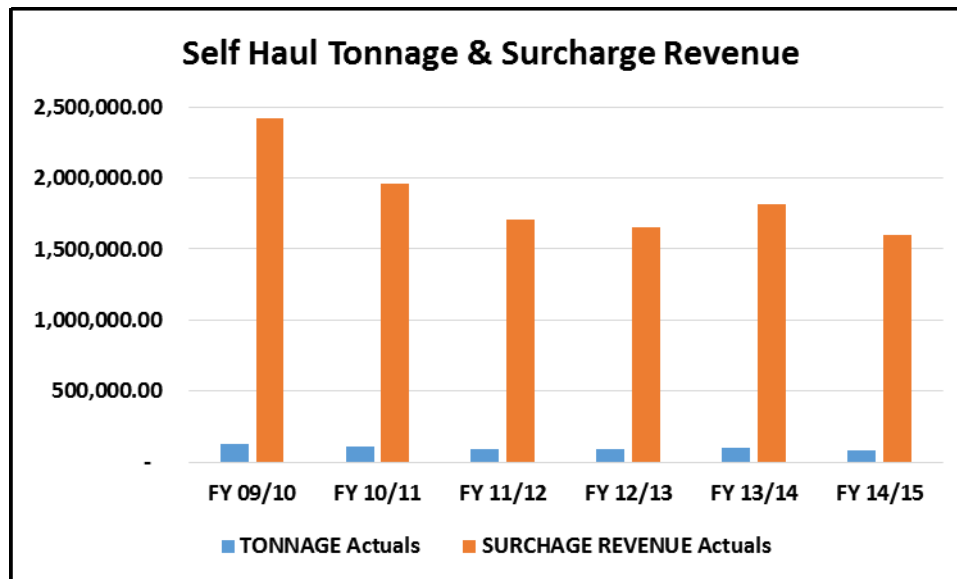
Analysis

- ☒ These changes in quantities of waste and changes in permitted disposal capacity since the development of the CIWMP do not warrant a revision to any of the countywide planning documents.
- ☐ These changes in quantities of waste and changes in permitted disposal capacity since the development of the CIWMP warrant a revision to one or more of the planning documents. Specifically, _____. See Section 7 for the revision schedule(s).

Additional Analysis (optional)

- The change in the quantity of waste over the last four years has continued to decrease. The County and cities' education and outreach programs have greatly increased awareness of recycling, reducing and reusing. With this increased knowledge, annual disposal pounds per population have decreased as diversion rates have increased. (not exactly accurate based on some of the data above. There has actually been a 3.2% increase in overall disposal rates.)
- The County of Orange has overall landfill capacity of approximately 50 years. (See Appendix B)
- All jurisdictions are continuing to maintain their mandatory 50% diversion rates. With the passing of AB 1826 and AB 1594, cities are working to develop their plan to reduce organics in the waste stream in order to meet the state mandated 75% diversion by 2020.
- The AB 939 Surcharge was established in Fiscal Year 2005-06 to divert self-hauled waste from Orange County landfills and has been extremely effective since its implementation. Since the implementation of the AB 939 Surcharge, self-hauled waste has decreased by a cumulative total of 84%. OC Waste & Recycling believes the surcharge has been an important policy affecting a significant increase in recycling and diversion practices. As of Fiscal Year 2014/15, the AB 939 Surcharge has generated \$23,771,041.96 for waste reduction activities (see tables below).

OCWR Budget & Landfill Administration		
Self Haul Tonnage & Surcharge Revenue Since Inception		
through May, 2105		
	TONNAGE	SURCHARGE REVENUE
	Actuals	Actuals
FY 04/05	548,301.48	\$0.00
FY 05/06	611,552.49	\$0.00
FY 06/07	348,294.97	\$6,545,408.14
FY 07/08	238,852.07	\$4,469,769.89
FY 08/09	171,144.74	\$3,195,242.30
FY 09/10	129,596.29	\$2,417,340.67
FY 10/11	105,078.50	\$1,962,325.26
FY 11/12	91,116.54	\$1,706,932.42
FY 12/13	88,362.60	\$1,655,137.84
FY 13/14	97,151.96	\$1,818,885.44
FY 14/15	85,743.39	\$1,602,398.91
Total To-date	2,429,451.64	\$23,771,041.96



Section 4.3 Changes in Funding Source for Administration of the Siting Element (SE) and Summary Plan (SP)

Since the approval of the CIWMP or the last Five-Year CIWMP Review Report (whichever is most recent), the County experienced the following significant changes in funding for the SE or SP:

Analysis

- ☒ There have been no significant changes in funding for administration of the SE and SP or the changes that have occurred do not warrant a revision to any of the countywide planning documents.
- ☐ These changes in funding for the administration of the SE and SP warrant a revision to one or more of the countywide planning documents. Specifically, _____. See Section 7 for the revision schedule(s).

Additional Analysis (optional)

- There have been no changes in the funding source for administration of the SE and SP since the previous Five-Year CIWMP Review Report.

Section 4.4 Changes in Administrative Responsibilities

The County experienced significant changes in the following administrative responsibilities since the approval of the CIWMP or the last Five-Year CIWMP Review Report (whichever is most recent):

Analysis

- ☒ There have been no significant changes in administrative responsibilities or the changes in administrative responsibilities do not warrant a revision to any of the planning documents.
- ☐ These changes in administrative responsibilities warrant a revision to one or more of the planning documents. Specifically, _____. See Section 7 for the revision schedule(s).

Additional Analysis (optional)

- While the administrative responsibilities have expanded, these changes do not warrant a need to revise any of the planning documents.

Section 4.5 Programs that Were Scheduled to Be Implemented, But Were Not

This section addresses programs that were scheduled to be implemented, but were not; why they were not implemented; the progress of programs that were implemented; a statement as to whether programs are meeting their goals; and if not, what contingency measures are being enacted to ensure compliance with Public Resources Code Section 41751.

1. Progress of Program Implementation

a. SRRE and Household Hazardous Waste Element (HHWE)

- ☒ All program implementation information has been updated in the CalRecycle Electronic Annual Report (EAR), including the reason for not implementing specific programs, if applicable.
- ☐ All program implementation information has not been updated in the EAR. Attachment _____ lists the SRRE and/or HHWE programs selected for implementation, but which have not yet been implemented, including a statement as to why they were not implemented.

b. Non-Disposal Facility Element (NDFE)

☐ There have been no changes in the use of non-disposal facilities (based on the current NDFEs and any amendments and/or updates).

☒ Attachment E lists changes in the use of non-disposal facilities (based on the current NDFEs).

c. Countywide Siting Element (SE)

☒ There have been no changes to the information provided in the current SE.

☐ Attachment _____ lists changes to the information provided in the current SE.

d. Summary Plan

☒ There have been no changes to the information provided in the current SP.

☐ Attachment _____ lists changes to the information provided in the current SP.

2. Statement regarding whether Programs are Meeting their Goals

☒ The programs are meeting their goals.

☐ The programs are not meeting their goals. The discussion that follows in the analysis section below addresses the contingency measures that are being enacted to ensure compliance with [PRC Section 41751](#) (i.e., specific steps are being taken by local agencies, acting independently and in concert with _____, to achieve the purposes of the California Integrated Waste Management Act of 1989) and whether the listed changes in program implementation necessitate a revision to one or more of the planning documents. _____

Analysis

☒ The aforementioned changes in program implementation do not warrant a revision to any of the planning documents.

☐ Changes in program implementation warrant a revision to one or more of the planning documents. Specifically, _____. See Section 7 for the revision schedule(s).

Additional Analysis (optional)

- CR&R continues to operate its Materials Reduction Facility (“MRF”), at the Prima Deshecha Landfill to provide a facility to process self-hauled waste for the purpose of recovering recyclable materials. Per the County of Orange contract requirement CR&R is required to divert 80%. This action was in support to comply with State recycling mandates and to prolong the life of the landfills.
- Tierra Verde Industries (“TVI”) EcoCentre continues to accept green waste, wood waste and Construction and Demolition (“C&D”). In addition, its new functions include: e-waste recycling, a buy-back recycling center, a Material Recovery Facility’s sorting operations for curbside recyclables and select commercial loads high in recyclables, processing of C&D material, vermicomposting, and composting of blended food waste and green waste. TVI is located in the Great Park in Irvine.

Section 4.6 Changes in Available Markets for Recyclable Materials

The County experienced changes in the following available markets for recyclable materials since the approval of the last Five-Year CIWMP Review Report.

Analysis

- ☒ There are no significant changes in available markets for recycled materials to warrant a revision to any of the planning documents.
- ☐ Changes in available markets for recycled materials warrant a revision to one or more of the planning documents. Specifically, _____. See Section 7 for the revision schedule(s).

Additional Analysis (optional)

- While there have been some changes in available markets for recyclable materials, they do not warrant a revision to the planning documents in the CIWMP Review Report.

Section 4.7 Changes in the Implementation Schedule

The following addresses changes to the County's implementation schedule that are not already addressed in Section 4.5

Analysis

- ☒ There are no significant changes in the implementation schedule to warrant a revision to any of the planning documents.
- ☐ Changes in the implementation schedule warrant a revision to one or more of the planning documents. Specifically, _____.

Additional Analysis (optional)

- The minor changes noted in Sections 4.1 through 4.7 do not necessitate revisions to the CIWMP planning documents.

Note: Consider for each jurisdiction within the county or regional agency the changes noted in Sections 4.1 through 4.7 and explain whether the changes necessitate revisions to any of the planning documents.

SECTION 5.0 OTHER ISSUES OR SUPPLEMENTARY INFORMATION (optional)

The following addresses any other significant issues/changes in the County and whether these changes affect the adequacy of the CIWMP to the extent that a revision to one or more of the planning documents is needed:

Additional Analysis

- Two haulers within the County are utilizing new technologies and approaches to Organics Waste Recycling.
 - CR&R Environmental Services built an anaerobic digester facility in Perris, Calif., to process organic waste. CR&R renewable energy facilities are permitted to process 80,000 TPY (320,000 TPD ultimate potential capacity) anaerobic digestion system in Perris, Riverside County. Featuring the Eisenman technology (for which CR&R holds the rights in California), this digestion plant, now in final construction and start-up, will

accept green and food waste and convert it into compressed natural gas (CNG) fuel for the Perris truck fleet and soil amendment for local use. Waste Management, Inc. in partnership with the Orange County Sanitation District operate a pre-processed food waste co-digester located in Orange. Located at WMOC's Transfer and Processing Center in Orange features processing technology that is the first of its kind in Southern California, the Food and Organic Recycling facility processes food and organics collected from local businesses, and converts it into a material that can be used as a source of energy. Local companies that are sending organic waste to the WMOC facility include Fashion Island, Olive Garden, Montage Laguna Beach, Irvine Company, Hyatt Irvine and Lucille's BBQ Grill in Lake Forest. Under the company's program, separated food and organics are collected at participating businesses. WMOC then picks up and transports the food and organics to the recycling facility where it is processed in a specially designed bio-separator. With this process, all contaminants are removed from organic waste, which is then transformed into an organic slurry that can be mixed with other complementary liquids to maximize its use in creating green energy. The organic slurry is trucked to the Los Angeles County Sanitation Districts (LACSD) wastewater treatment plant for co-digestion with bio solids. The resulting biogas is combusted to generate electricity and the digestate is hauled to composting sites. The demonstration project is designed to handle 80 TPD of slurry. Should the demonstration prove successful, Waste Management could expand its DODA processing capability as their primary outlet for source separated organics.

- With the adoption of Assembly Bill 341, the state of California requires commercial enterprises and public entities that generate four or more cubic yards of waste per week, and multi-family residential dwellings with five or more units, to adopt mandatory recycling practices, on and after July 1, 2012.
 - OC Waste & Recycling in collaboration with CalRecycle hosted a Mandatory Commercial Organics Recycling AB 1826 Workshop at the OC Recycling Coordinators' meeting and presented the following tools.
 - CalRecycle provided the County and cities' tools developed to provide guidance for the recently signed mandatory organics recycling law. These tools include updated frequent asked questions, the Generator Id tool, the Program Needs Assessment tool, and examples of successful commercial organics recycling programs. And a new customizable brochure template that jurisdictions can use for businesses/multifamily complexes is also now available on the AB 1826 Mandatory Organics Recycling website.
- Please see Appendix C, OC Waste & Recycling/Discovery Cube Partnership Annual Report February 2014 through January 2015 for Regional Wide Programs measures and outcomes from Partnerships added since the last Five-Year Review Report.
 - OC Waste & Recycling/Angels Baseball LP Partnership Annual Report
 - OC Waste & Recycling Discovery Science Center Partnership Annual Report
 - The County has three permanent Eco Challenge exhibits at Discovery Cube OC: Discovery Market, Eco Garage and Race to Recycle. These exhibits provide hands-on education for Orange County residents on making eco-friendly decisions while shopping, sorting different types of waste (green, landfill and hazardous), and helping identify household hazardous waste items that need to be taken to the Household Hazardous Waste Collection Centers rather than being disposed of at our landfills.

- In 2010, the County developed a redesigned countywide Landfill Disposal Reporting System Website with advanced functionality and features to accurately report municipal solid waste disposal data and the associated tonnage for all transactions at Orange County active landfills to the State Agency CalRecycle. This information is also accessible by haulers, city partners, and the public.
- The County of Orange has been a proud partner to our city jurisdictions. Over the past five years, the County has awarded 3.5 million dollars in self-haul surcharge grant programs to jurisdictions and local school districts and schools to promote recycling, thereby increasing diversion and ultimately landfill capacity. In addition, the County of Orange also utilizes regional wide education and outreach to increase awareness in reducing, reusing and recycling.
 - AB 939 Regional Recycling and Waste Diversion Grants Program assisted cities in compliance with AB 939; expanded the County's role as a regional leader in waste diversion and recycling activities; and addressed important local and regional recycling needs. The Nonprofit Organization Environmental Education and Outreach Program was designed to target school-aged students to improve their environmental habits, such as recycling, reuse, and waste reduction throughout Orange County. Grant recipients included The Discovery Science Center, Inside the Outdoors-Project Zero Waste, and The Pretend City Children's Museum-Pretend city Goes Green Educational Initiative. These grants focused entirely on waste reduction and the promotion of the three R's – Reduce, Reuse and Recycle by educating children through interactive, hand-on learning and supporting sustainable behavior change.
- In 2015, OCWR prepared a Long Range Capacity and Rate Stability Plan Appendix B, provides a review and an analysis of industry trends to delineate strategies and initiatives necessary to ensure landfill capacity and rate stability for the County's disposal system. OCWR will use this plan as a basis to update the RELOOC Strategic Plan following review and input from the Waste Management Commission, Board of Supervisors and other stakeholders.
- Alternatives utilizing organics, composting, mulching and Anaerobic Digesters are being researched and explored by the County.
 - Renewable Technologies Implementation Plan includes three components. First, to evaluate and recommend renewable technologies to deploy at OC Waste & Recycling facilities. Second, to produce a plan to diversify solid waste management from traditional landfilling to include conversion to renewable energy, low carbon fuels and useful by-products, such as compost. Finally, to ensure a reduction on greenhouse gas emissions while meeting the needs of Orange County residents and businesses.
- The County's Household Hazardous Waste Collection (HHWC) Program has increased participation by 18% since FY 05/06, serves over 3 million residents by utilizing a private-public partnership with local businesses, non-profits and all 34 cities in the County of Orange.
 - Collaborative educational outreach partnerships with the County's Environmental Health Care Agency, all 34 cities, private facility operators, Goodwill of OC, Angels Baseball LP, Discovery Cube OC and Orange County Department of Education. See Appendix D, for the County's HHWC program statistics - Fiscal Year 2013/14.

- While Programs and Partnerships have been added and developed, these do not warrant a change or a revisions to the planning documents since the last Five-Year CIWMP Review Report.

SECTION 6.0 ANNUAL REPORT REVIEW

- ☒ The Annual Reports for each jurisdiction in the County have been reviewed, specifically those sections that address the adequacy of the CIWMP elements. No jurisdictions reported the need to revise one or more of these planning documents.
- ☐ The Annual Reports for each jurisdiction in the County have been reviewed, specifically those sections that address the adequacy of the CIWMP (or RAIWMP) elements. The following jurisdictions reported the need to revise one or more of these planning documents, as listed.

Analysis

- The County's evaluation of the Annual Report data for each jurisdiction relating to planning document adequacy includes a determination that no revisions to the documents are required.
- All thirty-four (34) jurisdictions in Orange County have provided adequate reporting pertaining to AB 939 implementation. Programs that were not implemented were due either to budget constraints or the cities found an alternative program to divert the specific material. All jurisdictions are currently above the mandatory AB 939 50% per capita target rates.

SECTION 7.0 REVISION SCHEDULE (if required)

- The County of Orange's review of the Countywide Integrated Waste Management Plan finds that the goals, objectives, and policies in the elements are still applicable and consistent with current regulations. While there have been some changes in demographics and generation rates for some jurisdictions, appropriate adjustments have been made by city-contracted franchise haulers to accommodate the solid waste collected and processed. There is sufficient disposal capacity to handle further possible increases in population Countywide, especially with the increased diversion. Amendments to the Non-Disposal Facility Element indicate an increase in diversion facilities that will also help to extend landfill capacity for years to come while offering cost-competitive alternatives to disposal.
- At this time there is no need to revise any of the individual planning documents (SRRE, HHWE, NDFE, SE, and SP) that make up the County's waste management plan since the documents were first adopted.
 - The current documents are sufficiently updated via the annual reports, DRS and other existing reporting systems.



Orange County Waste Management Commission

COUNTYWIDE INTEGRATED WASTE MANAGEMENT PLAN (CIWMP) FIVE-YEAR REVIEW REPORT Summary of Subcommittee Findings December 10, 2015

Subcommittee members: Rob Johnson (CIWMP, Chair) Deepak J. Krishan (CIWMP, Vice Chair)
David J. Shawver, and Joe Carchio

OC Waste & Recycling staff: Isabel Rios, Jesus Perez, and Melanie Tep

CIWMP Background

The California Integrated Waste Management Act of 1989 (AB 939) requires cities and counties in California to reduce the amount of waste disposed of in landfills by 50 percent by the year 2000 through source reduction, recycling, and composting activities. The Countywide Integrated Waste Management Plan (CIWMP) is the guiding document for attaining these goals. The CIWMP consists of four elements and a summary plan:

- Source Reduction and Recycling Element (SRRE),
- Household Hazardous Waste Element (HHWE)
- Non-Disposal Facility Element (NDFE)
- County Siting Element (SE)
- Summary Plan (SP)

OC Waste & Recycling is required to review its CIWMP at least once every five years to correct any deficiencies in the elements or the plan and revise the documents, as necessary. The review is to be completed by the Waste Management Commission (WMC) acting as the AB 939 Local Task Force (LTF) to assure that the County's waste management practices remain consistent with the waste management requirements. The issues to be addressed in the CIWMP review report are, at minimum; changes in the goals, objectives, policies, waste management infrastructure, funding sources and responsible administrative organizational units.

The original County of Orange CIWMP was presented to the WMC LTF, was adopted by the cities and the County, and approved by the California Department of Resource Recycling and Recovery (CALRecycle) in March 1996. Three subsequent Five-Year reviews have been completed. In previous cases, the WMC LTF found that the overall CIWMP framework was still applicable and accurately described. The WMC LTF concluded that no revisions were required.

CIWMP Findings

The CIWMP subcommittee and OC Waste & Recycling staff completed the Fourth year CIWMP Five-Year Review and determined the following findings.

Countywide Integrated Waste Management Plan
(CIWMP) Five-Year Review Report
Summary of Subcommittee Findings
December 10, 2015

Staff Findings:

1. The change in the quantity of waste over the last four years has continued to decrease.
2. The County and cities' education and outreach programs have greatly increased awareness of recycling, reducing and reusing.
3. All thirty-four jurisdictions have met and/or exceeded target 50% equivalent per capita rate issued by CalRecycle.
4. With the passing of AB 1826 and AB 1594, the County and cities' are working to develop their plan to reduce organics in the waste stream in order to meet the state mandated 75% diversion by 2020.

As such, staff has found that the overall framework of the CIWMP is still applicable. The County and cities' program implementation has been discussed in their annual reports to the CalRecycle. All of the selected or alternative programs have been, and continue to be, implemented when possible. Given this, the most effective use of available resources is to continue using the existing CIWMP as a planning tool augmented by the annual reports. It was found that revisions to the CIWMP are not warranted at this time.

CIWMP subcommittee Findings:

1. The overall framework of the CIWMP is still applicable;
2. The landfill system has in excess of the 15 year capacity required by the State, sufficient to handle the waste that cannot be diverted;
3. The goals, objectives, policies, waste management infrastructure, funding sources, and responsible administrative bodies noted throughout the CIWMP have not changed and are accurately described;
4. All of the selected diversion programs have been and are continuing to be implemented where possible. New programs have been added and existing programs have been expanded. Although some programs have been revised, overall program implementation has been discussed in the jurisdictions' annual reports;
5. The county and cities' continue to closely work with the State and monitor evolving compliance issues;
6. Limited county resources are better spent on implementing programs;
7. The planning documents are sufficiently meeting their intended purpose;
8. Consequently, no revision to the CIWMP is necessary.

The WMC LTF found that the overall CIWMP framework was still applicable and accurately described. The WMC LTF concluded that no revisions were required for the fourth year CIWMP Five-Year Review Report.

Long-Range **Landfill Capacity** and Rate Stabilization Plan

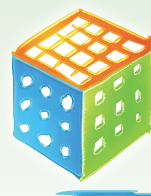




OC Waste & Recycling Discovery Cube Partnership

ANNUAL REPORT

Feb 2014 - Jan 2015



DiscoveryCube®
ORANGE COUNTY
PRESENTED BY TACO BELL



Table of Contents

Introduction 02

Summary of Activities 04

Educational Outreach Program 07

Community Event Partners

Angels Baseball 10

Anaheim Ducks 12

Goodwill of Orange County 14

Marketing Partner: Discovery Cube 16

Marketing Activities

Promotion Partners 18

Print Advertising 20

Online Marketing 22

Outreach and Education Opportunities 24





Introduction

After two years of partnership in support of Eco Challenge Public Education & Outreach Program, OC Waste & Recycling (OCWR) and Discovery Cube Orange County have established a brand grounded in the creation of measurable long-term behavior change in our community. This behavioral change comes as a result of private and public partnerships with Angels Baseball, Goodwill of Orange County and others, an educational outreach program in schools and at the Cube, as well as engaging community events that encourage Orange County residents to reduce, reuse and recycle. The foundation of an overwhelmingly popular and effective exhibit at Discovery Cube combined with the lessons learned from the first full year of marketing have positioned this second year of partnership for immense growth and continued success.

The specific goals of this partnership align with both OCWR and Discovery Cube's respective organizational initiatives and are as follows:

- Drive target audiences to Discovery Cube for a hands-on, educational experience with the County's three Eco Challenge exhibits.
- Increase awareness and sustain meaningful behavioral improvement of reusing, reducing, recycling and household hazardous waste (HHW) disposal practices.
- Implement integrated marketing activities including high-potential, cost-effective paid and unpaid media (in-kind activities). Unpaid media refers to activities and opportunities through partnerships, sponsorships and value-added opportunities.
- Expose Orange County residents, community/department partners, County agencies and private/public entities with the Eco Challenge brand and key messages.
- Create universal, county wide messages and materials that can be utilized by other partner agencies for customization and implementation.
- Develop and implement meaningful tracking methods to measure quantitative success of the project/programs.
- Build upon business and community partnerships developed with regard to Eco Challenge at no additional cost to the County.

- Integrate Eco Challenge social marketing programs by continuing the Eco Challenge message of reducing, reusing and recycling.
- Conduct ongoing and aggressive monitoring of results and measurables to identify new opportunities, programs and events to ensure success.

The second year of this partnership focused on streamlining Eco Challenge marketing activities by utilizing successful strategies from 2013 and leveraging them with a stronger, more focused communications plan. This resulted in a consolidated effort to grow Eco Challenge regional collection events and the Eco Challenge Angels Baseball Poster Contest, while maintaining an underlying campaign to drive traffic to the County's Eco Challenge exhibits at Discovery Cube.

Eco Challenge Exhibits



Discovery Market

Discovery Market focuses on making eco-friendly decisions while shopping. From teaching guests to select items with environmentally friendly packaging to showing the difference between fresh and canned goods, Discovery Market aims to change buyer behavior one simple decision at a time.



Race to Recycle

Race to Recycle turns recycling and sorting trash into an exciting game that all ages can enjoy. As guests step up to a game station, they are challenged to identify different types of waste (green, landfill and hazardous) from a trash truck's conveyor belt more quickly and accurately than others playing the game.



Eco Garage

Eco Garage helps guests to identify items in their own garages (and homes) that are properly disposed of at their local Household Hazardous Waste drop-off location. As guests are asked a series of questions about items inside the garage, they are often surprised to learn about things they cannot throw in their own garbage.



Summary of Activities

Below is a summary of the activities by which program measurables were achieved through Eco Challenge marketing, advertising, education, collection and branding activities in conjunction with three other partners: Angels Baseball, Anaheim Ducks and Goodwill of Orange County.

Educational Outreach Program

Two years ago, OCWR funded a \$500,000 public education and outreach grant to develop state standards based teaching curriculum with Discovery Cube consisting of an in-school assembly and field trip to the County's Eco Challenge exhibits at the Cube. This grant acted as seed money with the commitment that Discovery Cube would extend the life of this outreach program by securing new funding partners consisting of Orange County agencies and cities in the following years. In its first year of securing new partners with the goal of program sustainability, Discovery Cube added eight new partners to this program reaching 4,123 students, and in this second year, added four new partners reaching 7,191 Orange County students.

Community Event Partner – Angels Baseball

In this third year of partnership with Angels Baseball, program goals revolved around streamlining activities and messaging with focused efforts on Eco Challenge collection event growth and the Eco Challenge Angels Baseball Poster Contest. Angels' communication channels including stadium LED graphics, tabling opportunities and Angels' radio were utilized strategically to help grow the County's recycling education and outreach programs. The result was a 63% increase in collection event attendance and a 190% increase in pounds collected, as well as a 96% increase in Eco Challenge Angels Baseball Poster Contest participation over the prior year.



Community Event Partner – Anaheim Ducks

The County's partnership with the Anaheim Ducks focused on exploration of other resources available through the Ducks to promote the Eco Challenge. This effort resulted in three Eco Challenge collection events, by utilization of Ducks' communication channels (in-rink graphics, tabling opportunities) to promote these events. The second year of program results in partnership with the Anaheim Ducks yielded 829 event participants, nearly 400 visits to the County's Eco Challenge exhibits at Discovery Cube and 29,240 pounds of materials safely diverted from Orange County's landfills.



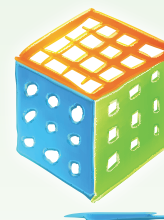
Community Event Partner - Goodwill of Orange County

Goodwill of Orange County (OC) continued to offer a mutually beneficial partnership as County-hosted Eco Challenge collection events grew in frequency, size and scope. In 2014, Goodwill of OC was a great partner providing operational and promotional support for these events. The County embraced their partnership through booth availability, logo incorporation on event materials and opening up opportunities for Goodwill of OC's partners to participate. In return, Goodwill of OC provided increased resources in terms of promotion and collection event support throughout the year.



Partnership with Discovery Cube Orange County

Discovery Cube continued to provide a multi-faceted partnership to the County, supporting Eco Challenge initiatives on many levels including driving traffic to the County's Eco Challenge exhibits at Discovery Cube, providing marketing, communication and graphic support, and bringing added value to the table in these areas wherever possible. Over the past year, this partnership resulted in 14,895 visits to the County's Eco Challenge exhibits at the Cube, 4,892 of which were free child tickets. In addition, Discovery Cube has launched a partnership with a marketing agency, Amusement Park Inc. formerly known as DGWB, as a resource to develop and implement the 2015 Eco Challenge strategic marketing plan.



DiscoveryCube®
ORANGE COUNTY

PRESENTED BY **TACO BELL**



DiscoveryCube®
ORANGE COUNTY
PRESENTED BY **TACO BELL**

Summary of Activities (continued)

Eco Challenge Marketing & Promotion Activities

Marketing and promotion activities related to Eco Challenge were streamlined to better support program priorities of growing Eco Challenge collection events and the Eco Challenge Angels Baseball Poster Contest, as well as driving traffic to the County's Eco Challenge exhibits at Discovery Cube.

While this included utilization of many of the same channels as the prior year (magazines, online, partner promotions), all messaging followed a more organized communications schedule that was intended to optimize measurable outcomes based on lessons learned in 2013.

Results

Activity		2013	2014
Community Impact	Students Taught in Outreach	4,123	7,191
	Material Diverted from Landfills	10 tons	29 tons
	Eco Challenge Event Participants	2,094	2,306
Education at the Cube	Stage Show Participants	74,350	74,867
	Total Visitors to Eco Challenge Exhibits	393,968	418,253
Marketing Results	Message Impressions	58,600,000	65,055,140
	Surveys Collected	940	4,344
	Visits Added to Eco Challenge Exhibits* (Through free child coupon)	22,010	14,895

*Decrease in number of visits is a result of some efforts in 2014 being redirected from driving traffic to Discovery Cube toward promoting Eco Challenge recycling events and Angels Baseball Eco Challenge Poster Contest.

Educational Outreach Program

In its third year, the Eco Challenge educational outreach program continues to experience sustainable growth. Since the County provided the initial grant to develop this outreach program consisting of an in-school assembly and field trip for 6th grade students, as well as a public stage show, Discovery Cube has been successful in leveraging this seed money to add new funding partners (Orange County agencies and cities) and grow the program's reach.

Student Assemblies and Field Trips

The Eco Challenge education outreach program provides an in-school assembly taught by a Discovery Cube teacher and a field trip to visit the County's Eco Challenge exhibits at Discovery Cube for 6th grade students in Orange County. These two components work together to increase students' understanding of "reduce, reuse, recycle" concepts including how they can divert waste from our landfills and properly dispose of household hazardous waste. Through keypad technology, it has been shown that at the end of the assembly over 92% of the participating students understood how to properly sort waste items.

After the program, students are encouraged to implement their learnings at home with a take-home educational booklet, home survey, household hazardous waste information sheet, and household hazardous waste collection box. From the home surveys, we learned that 79% of the students felt encouraged to sort their waste more effectively and 97% learned at least one new action they could do at home to help reduce, reuse, and recycle.



Educational Outreach Program (continued)

"Minute to Win It" Stage Show

The Eco Challenge "Minute to Win It" show is an engaging public presentation that takes place at Discovery Cube throughout the year. This stage show is fast-paced and energetic, and brings the concepts of reducing, reusing, and recycling to life for its audience. The audience is split into two teams that compete against each other doing different tasks within a minute timeframe. Each task teaches about a different area of reducing, reusing, and recycling, as well as the concept of proper household hazardous waste disposal. Over the past year, this show was presented to 74,867 guests.

Grant Management & Sustainability

Discovery Cube has been successful in maintaining sustainability for this program by continuing with partnerships created in 2013, and securing new funding partners in 2014. OCWR's initial grant funded the development of the program, with the commitment that Discovery Cube would secure new funding partners in years 2-5 that will increase the number of students reached. The Cube secured five new city partners in 2014, allowing 3,068 additional students to participate in the County's Eco Challenge education and outreach program. Discovery Cube also continues to actively reach out to additional cities in an effort to create additional sustainable partnerships.



Educational Outreach Funding Partners:

City or Agency	Students
Waste Management/Irvine	339
Huntington Beach	1,045
Costa Mesa Sanitary District	547
Cypress/Los Alamitos/Seal Beach	1,045
Placentia	295
La Habra	475
Fullerton	595
Orange	606
Brea	197
Buena Park	711
Total Students Served	7,191

Recommendation

It is recommended to continue the Eco Challenge education outreach program as planned over the next 2 years. Discovery Cube continues to demonstrate its ability to gain new funding partners, thereby ensuring program sustainability and allowing OCWR's initial investment to multiply year after year in educational impact. In addition to the continuance of these outreach activities, it is also recommended that Discovery Cube utilize OCWR's partners and agency relationships to gain new funding sources. As the number of students reached rises in the coming years, Discovery Cube should also evaluate whether adding additional grade levels and/or program elements is necessary.

Community Event Partner – Angels Baseball

OCWR's partnership with Angels Baseball LP continued in 2014 based on 2013 program recommendations to support compliance with AB 939 and Eco Challenge initiatives. In this third year of partnership, program goals were to streamline activities and messaging based on lessons learned in previous years. This translated to focused efforts on Eco Challenge collection event growth and the Eco Challenge Angels Baseball Poster Contest, which have proven to create the best opportunities for measurable results and impact. A strategic communications plan ensured that all of the resources available to OCWR through the Angels were leveraged in ways to support these efforts.

Eco Challenge Collection Events

Three Eco Challenge collection events were held in partnership with Angels Baseball, Discovery Cube and Goodwill of OC. The goal of these events was to reward the behavior of recycling and properly disposing of e-waste, used clothing, and household hazardous waste by providing unique and valuable incentives to Orange County residents.

As in previous years, the Angels provided promotional support for all events, a venue for two events, player appearances, and incentives for fan participation such as game tickets and Strike Force participation, much of which was added value provided at no cost to the County. Participation and pounds collected grew significantly in 2014 due to a focused effort on utilizing the Angels' communication channels to promote these activities. Based on 2013 recommendations, stadium graphics, Spanish radio and Season Seat Holder e-mail blasts were used strategically to drive traffic to these events. The result was a 63% increase in attendance and 38% increase in pounds collected.

Eco Challenge Angels Baseball Poster Contest

In its second year, the 2014 Eco Challenge Angels Baseball Poster Contest leveraged the rare experience of becoming an Angels "bat kid" in order to generate excitement and inspire kids to create a poster about reducing, reusing and recycling. As in 2013, Angels Baseball Poster Contest winners were awarded a "bat kid" experience at no cost to the County and recognized during an on-field ceremony featuring members of the Board of Supervisors and Board staff.

The Second Annual Eco Challenge Angels Baseball Poster Contest grew through improved planning and promotion. Angels' communication channels



were better leveraged, as were advertising initiatives with Discovery Cube and the County's partnership with Inside the Outdoors in order to promote the contest to a larger audience. This included utilizing Angel Stadium graphics, ad space in family magazines and flyer distribution in classrooms to get the message out in a timely manner. The result was a 96% increase in participants.

Communication Channels & Reach

In support of the two major initiatives of growing the Eco Challenge collection events and Eco Challenge Angels Baseball Poster Contest, other partnership elements centered around reaching the Angels' broad audience were used through stadium LED graphics (Big A, Concourse Posters, scoreboards, fascias), game-day tabling opportunities, Little League Days, flyer distribution, Lucky Fan giveaways and Spanish radio.

These channels were better leveraged in 2014 by developing a communications schedule that focused on promoting Eco Challenge collection events and the Eco Challenge Angels Baseball Poster Contest, while maintaining the underlying message of "reduce, reuse, recycle" with a free child coupon to visit the County's Eco Challenge exhibits at Discovery Cube. This resulted in the desired outcome of utilizing the over 48 million impressions created by the Angels to facilitate growth in Eco Challenge collection events, Eco Challenge Angels Baseball Poster Contest and related measurables such as participation rates and pounds collected.



Results

- 29,243 Pounds Collected
- 1,478 Collection Event Participants
- 200 Angels Baseball Poster Contest Participants
- 48,341,974 Impressions
- 1,532 Visits to Eco Challenge
- 2,451 Eco Challenge email subscribers

29,240
Pounds Collected



Recommendation

As displayed in previous years, Angels Baseball's broad reach, unique assets and strong commitment to the partnership continues to offer an unmatched ability to drive measurable results. In applying lessons learned from last year, the power of the Angels' reach became evident as a focused effort was made toward growing Eco Challenge collection events and the Eco Challenge Angels Baseball Poster Contest. When all assets were used strategically toward achieving these common goals, their potential was fully realized and results were maximized.

In year four, it is recommended to continue to utilize Angels' communication channels to grow Eco Challenge collection events and the Eco Challenge Angels Baseball Poster Contest. In an effort to improve upon 2014 results, it is also recommended to utilize additional channels (through the County and/or other community partners) to support this messaging, and to refresh Eco Challenge graphics and advertisements to provide an updated, clear and visually appealing, yet still recognizable, message in the community. By growing the reach and improving the messaging, the impact of this partnership will continue to expand in 2015.



Regional Community Event Partner – Anaheim Ducks

The County's partnership with the Anaheim Ducks in 2014 focused on incorporating recommendations from 2013 to explore other resources available through the Ducks that would grow the partnership and facilitate measurable results. This included a possible themed exhibit/activity area within the Honda Center concourse and establishing Eco Challenge collection events that would be promoted using the Ducks' communication channels, mirroring the successful partnership program with Angels Baseball.

Eco Challenge Collection Events

Three Eco Challenge collection events were held in partnership with the Anaheim Ducks, Goodwill of OC and Discovery Cube. At these events, Orange County residents were encouraged to bring their e-waste, used clothing, and household hazardous waste in order to receive valuable incentives for their recycling behavior.

The Ducks partnership provided promotional support, a venue for all events, and incentives for fan participation including game tickets, signed merchandise, and the rare opportunity to view a Ducks morning skate, some of which was added value provided at no cost to the County. In this first year of hosting Eco Challenge recycling events with the Ducks, community engagement was greater than expected with total attendance of 829 participants and 29,240 pounds collected.

Communication Channels & Reach

Similar to the County's partnership with the Anaheim Ducks in 2013, communication with the Ducks' large audience remained a priority in 2014 including utilization of the 57 Freeway LED display, in-rink LED graphics, concourse advertising, game-day tabling opportunities, e-blasts and Ducks Digest advertising.

These channels were utilized more effectively in 2014 by developing a strategic communications schedule in order to promote Eco Challenge collection events, while maintaining an underlying message and free child coupon to visit the County's Eco Challenge exhibits at Discovery Cube. While these channels proved to be effective, the plan for increased engagement and partnership growth through a more permanent themed exhibit/activity concourse area was not realized.



Results

829 Collection Event Participants
29,240 Pounds Collected
513 Visits to Eco Challenge

Recommendation

While Anaheim Ducks program elements provided in 2014 allowed for a wide reach and a successful launch of Eco Challenge recycling events, the growth potential of the partnership is fairly limited. In building sustainable, long-term partnerships, the County seeks highly integrated relationships and finds great value in exploring those mutually beneficial “value-added” elements that arise naturally from the common goals of both parties. It is recommended for the County not to continue with the Anaheim Ducks for the third year.

29,240
Pounds Collected



DiscoveryCube
ORANGE COUNTY
PRESENTED BY TACO BELL

Regional Community Event Partner – Goodwill of Orange County

Goodwill of OC continued to offer a mutually beneficial partnership as its mission and goals align with OCWR's priorities of recycling (particularly electronic waste) and reusing materials. With an objective of growing Eco Challenge collection events in 2014 and the subsequent need for the operational and promotional support that Goodwill of OC can provide, it was a natural fit for collection event partnership.



With the 2013 recommendation of growing this partnership and exploring other avenues of collaboration, OCWR better embraced their participation at Eco Challenge collection events through booth availability, logo incorporation on event materials and opening up opportunities for their partners to participate. In return, Goodwill of OC provided increased participation in terms of promotion and collection event support throughout the year.

E-Waste & Collection Events

OCWR continued to partner with Goodwill of OC in executing Eco Challenge collection events in support of partnerships with Angels Baseball, Anaheim Ducks and Discovery Cube. For the second year, Goodwill of OC provided the resources to execute the collection of non-hazardous waste. This was extremely valuable not only because it came at little to no cost to the County, but also because Goodwill of OC was an exceptional partner by providing high quality service.

In addition, Goodwill of OC was given a booth at Eco Challenge collection events where it could engage with guests, promote its brand and ultimately provide a more engaging experience for participations. This increased partnership integration proved valuable to both OCWR and Goodwill of OC.

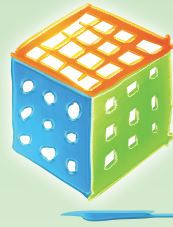
Communication Channels & Reach

While Goodwill of OC provided a great service in facilitating non-hazardous waste collection at several events in 2014, it was also a valuable partner in utilizing its own channels to promote Eco Challenge collection events. In-store promotions, paid radio media and incorporation of other partners were examples of how Goodwill of OC helped promote these events. To reciprocate and grow the partnership, Goodwill of OC was more prominently recognized in event ads and communications to better integrate them into the Eco Challenge program.

Recommendation

It is recommended to continue this partnership with Goodwill of OC for a third year. Goodwill of OC has proven to be a growing component of the Eco Challenge program and a staple for Eco Challenge collection events. Over the coming year, it is recommended to collaborate with Goodwill of OC at the on-set for most Eco Challenge collection events and to keep them on the forefront as a potential partner for all Eco Challenge initiatives allowing for an even deeper and more meaningful ongoing partnership.





DiscoveryCube®

ORANGE COUNTY

PRESENTED BY TACO BELL

Partnerships - Discovery Cube Orange County

Discovery Cube is a multi-faceted partner to the County, supporting Eco Challenge initiatives on many levels from driving traffic to the County's Eco Challenge exhibits at Discovery Cube, to providing marketing, communication and graphic support, and adding value at no cost in these areas wherever possible. Based on 2013 recommendations, OCWR has continued to partner with Discovery Cube in this way; a partnership that lies in the shared value of educating children with the goal of changing behavior in favor of the environment.

Existing Advertising/Media Buys

OCWR continued to benefit from the Eco Challenge marketing conducted through our partnership as well as Discovery Cube's routine marketing efforts outside of Eco Challenge related activities. Since over 96% of Discovery Cube visitors surveyed visit the Eco Challenge exhibit, any traffic-driving activities that Discovery Cube participated in are considered added value as they directly resulted in additional visits to Eco Challenge. This included TV commercials with Time Warner, print advertising, radio, outdoor advertising, direct mail and public relations and communications efforts.

Total Cost Avoidance: \$436,174

Discovery Cube's Self-Promotion of Eco Challenge

Discovery Cube also used several of its own channels and efforts to promote the County's Eco Challenge exhibits and Eco Challenge messaging outside of Eco Challenge marketing activities in partnership with the County. These value added activities included Eco Challenge tags and "reduce, reuse, recycle" messaging in its monthly newsletters sent to over 70,000 subscribers, magazine mailed to over 20,000 households, and flyers distributed to 2,000+ cars per month at its parking booth.

Total Cost Avoidance: \$15,000

Poster Contest Winners



Over 150 kids stepped up and took the Eco Challenge in this year's poster contest in partnership with OC Waste & Recycling and Angels Baseball.

One winner from each of Orange County's supervisorial districts has been selected to become an Angels Bat Kid for a game this season!

[See This Year's Winners >](#)

Use of Eco Challenge Artwork & Discovery Cube Creative Team

A primary benefit of partnering with Discovery Cube has been the use of Eco Challenge branding and graphics to communicate the County's Eco Challenge initiatives. In addition, OCWR has benefited from the support of Discovery Cube's marketing, PR, and creative teams to develop the marketing strategy and Eco Challenge creative. On the PR/media communications front, Discovery Cube has continued to leverage its contacts to gain media coverage on several blogs such as "Let's Play OC", "New Santa Ana", "Toddler Trails" and other outlets such as the OC Register for Eco Challenge collection events and other Eco Challenge promotions. These relationships are key in supporting the communications team at OCWR.

The Eco Challenge brand has provided OCWR with a consistent, branded look and identity that is unique to their efforts within the County and a platform for creative messaging with maximum impact in the community.

Total Cost Avoidance: \$137,000

Admissions & Discounts

Discovery Cube has continued to provide value added for the County in the form of tickets, couponed free child admissions, discounted memberships, parking passes, and more.

Over the past year, this partnership resulted in:

- 14,895 visits to the County's Eco Challenge exhibits at the Cube (8,438 couponed/6,457 ticketed)
- 4,892 free child tickets
- 2,200 free general admission tickets

Total Cost Avoidance: \$106,026

Recommendation

It is recommended to continue the partnership between Discovery Cube and OCWR to further Eco Challenge initiatives. This is a particularly exciting time for this partnership as Discovery Cube underwent a complete re-brand in 2014 and will open its expansion in 2015. As a result, Discovery Cube has launched a partnership with a marketing agency, Amusement Park Inc., a resource that Discovery Cube has opened to develop and implement the 2015 Eco Challenge strategic marketing plan. With this new partnership, it is recommended to leverage DGWB's skill set to develop and implement a more robust strategic marketing plan for Eco Challenge in 2015, as well as update Eco Challenge graphics with an enhanced look and feel for more effective messaging.



DiscoveryCube
ORANGE COUNTY
PRESENTED BY TACO BELL

Marketing & Promotion - Partner Promotions & Time Warner Cable

Based on recommendations from partner promotions in 2013, Discovery Cube provided opportunities with new promotional partners in 2014. By again combining the power and reach of television with a stronger lineup of primary QSR (quick service restaurant) brands, this traffic driving strategy created a cross marketing promotional opportunity whereby local brands/stores promote Eco Challenge messaging to their audience during the summer months when kids are out of school. A strong mix of promotional partners paired with an optimal promotional period took the learnings from 2013 and implemented them in order to maximize Eco Challenge exhibit visits and coupon redemptions at Discovery Cube.

Methodology

This activity with Time Warner Cable (TWC) brought together the largest reach along with promotional tie-in of messaging with third parties to drive the desired measurable. This allowed leveraging of the cable media campaign by advertising promo partners as the location to obtain a free child coupon to visit the County's Eco Challenge exhibits at Discovery Cube. With these promo partners promoting Eco Challenge messaging to their audiences, this promotion extends the reach of message beyond commercial spots and into "consumer places" of high traffic.

Strategy

This marketing tactic was employed during the summer months of July and August, the optimal time for driving attendance since kids are out of school. This campaign paired the best performers from 2013 (Wahoo's and Papa John's) with one of the strongest QSR brands in Southern CA, Subway, to distribute over 8.9 million coupons promoting the County's Eco Challenge exhibit at Discovery Cube in conjunction with Discovery Cube's summer exhibit, MythBusters. In addition, Discovery Cube ran TV spots encouraging families to visit these locations to get their free child coupon.



Attendance Driven to Eco Challenge:

Papa John's: 1,076

Wahoo's: 1,879

Subway: 4,173

Total Participants: 7,128

Total Impressions: 8,900,000

Total Cost Avoidance: \$36,000

Recommendation

By combining the wide reach of TWC with the heavy foot traffic of promotional partners, this strategy was one of the most efficient and effective ways to communicate with a large volume of families in Orange County. While this was a great generator of awareness and attendance, it was also such a significant investment that it didn't leave room for many other initiatives during any given time period. With a variety of goals and initiatives that make up the Eco Challenge program, it is important to distinguish that this tactic is best used when employed strictly to drive attendance and increase awareness of the County's Eco Challenge exhibits and to encourage Orange County residents to reduce, reuse, and recycle. Therefore, continuing this strategy is only recommended when there is a primary goal of driving attendance to the County's Eco Challenge exhibits at Discovery Cube during a certain time period.





Marketing & Promotion - Print Advertising

Print advertising provided a flexible and measurable vehicle for communicating with the County's target audience of families with kids. As recommended from learnings in 2013, the continued use of these publications was to promote Eco Challenge collection events, the Eco Challenge Angels Baseball Poster Contest and achieve OCWR's goal of driving traffic to the County's Eco Challenge exhibits at Discovery Cube. In 2014, co-branding opportunities between Eco Challenge and Discovery Cube's traveling exhibits were utilized in many publications, while others were used exclusively to promote Eco Challenge initiatives.

Family Publications

Print advertising for Eco Challenge was strategically placed in publications that offered a targeted audience of parents in Orange County. Parenting OC and OC Family are two examples of publications targeting Orange County parents with young children who reach 245,000 and 422,000 monthly readers, a combined 667,000. While this space was not the most effective channel for driving measured traffic to the County's Eco Challenge exhibits at Discovery Cube 2013, it was extremely effective in reaching our target audience of Orange County families. Therefore, ads in 2014 included the co-branding approach described above with clear calls to action promoting the Eco Challenge Angels Baseball Poster Contest and other initiatives.

Direct Mail Publications

As recommended, Clipper Magazine was employed to drive traffic to the County's Eco Challenge exhibits at Discovery Cube based on its overwhelming success in 2013 and reach of over 800,000 households. Clipper is also Discovery Cube's leading source of print coupon redemptions. In addition, Discovery Cube's ongoing relationship and current media campaign with this publication allowed for a significantly reduced cost.

Event Promotion

Print ads were also effective in communicating event information and driving traffic to Eco Challenge collection events. The OC Register was utilized slightly differently in 2014 in leveraging its community papers to promote Eco Challenge collection events in specific communities in the days leading up to an event. This allowed for a cost-effective way of reaching a targeted audience in support of individual events.

Results:

Total Impressions: 4,465,166

Total Cost Avoidance: \$14,573

Recommendation

It is recommended for the County to continue to use some or all of these publications to both promote Eco Challenge messaging when budget allows and to achieve OCWR's stated goal of driving traffic to the County's Eco Challenge exhibits at Discovery Cube. Parenting OC, OC Family and Clipper Magazine represent a balanced mix of targeted family messaging and high circulation, which is crucial to our communication goals. Clipper Magazine is recommended for continued use in driving traffic to the County's Eco Challenge exhibits at Discovery Cube. The disadvantage with Parenting OC and OC Family is that they are difficult to measure and can become costly if the messaging is not on point. Due to their reach and targeted audience, these publications are still valuable, but only recommended to act as a communication vehicle to support a larger strategic marketing plan.



Marketing & Promotion - Online Marketing

Online marketing and advertising was primarily conducted as in-kind activities as Discovery Cube reached out using its communication channels to promote Eco Challenge collection events and other Eco Challenge initiatives. These outlets included Discovery Cube's website, e-mail blasts, coupon downloads, social media, and traffic driven to ocEcoChallenge.com to learn more about Eco Challenge.

Discovery Cube Website & E-Mail

All Eco Challenge collection events and the Eco Challenge Angels Baseball Poster Contest were promoted on Discovery Cube's website through the homepage and dedicated event pages. They were also promoted through e-mail newsletter inclusion and dedicated e-mail blasts to Discovery Cube's database of over 70,000 e-mails. This was the ideal audience for communicating Eco Challenge events and promotions because it was a targeted, opted-in audience of families that have actively shown interest in Discovery Cube events and activities.

Social Media

Discovery Cube also utilized its robust social media network as a platform to promote Eco Challenge collection events and other Eco Challenge activities and messaging. This included promotion on Facebook, Twitter and Instagram. With nearly 37,000 likes on Facebook and an audience similar to Discovery Cube's member base, this represented a large, captive audience of parents and families interested in Discovery Cube related events and activities.

Coupon Downloads (ocEcoChallenge.com)

As another component of our online marketing initiatives, marketing materials and advertisements that contained a free child coupon to visit the County's Eco Challenge exhibits at Discovery Cube also directed our audience to ocEcoChallenge.com to learn more about Eco Challenge collection events. ocEcoChallenge.com is a County website that contains information about recycling, household hazardous waste disposal, upcoming Eco

KEEP ORANGE COUNTY CLEAN AND GREEN

TAKE THE Eco Challenge

at  **DiscoveryCube**
ORANGE COUNTY
PRESENTED BY  

Our planet is calling on YOU to step up to the challenge! Visit Discovery Cube and learn from our environmentally themed, eco-friendly exhibition. Then take those skills home so you can train to become a Green Superhero!

- 1 Race to Recycle**
The first one to zero wins! Zero waste, that is. Race against your friends to sort recyclables from other waste to correctly divert trash from our landfills.
- 2 Discovery Market**
Become a green superhero by immersing yourself in the grocery store game while learning the importance of making Earth-friendly choices. Are you up the challenge?
- 3 Eco Garage**
Step inside the Eco Garage and beat the challenge to identify household hazardous waste items using your own scanner.

To learn more, visit ocEcoChallenge.com

FREE CHILD ADMISSION

 **DiscoveryCube**
ORANGE COUNTY
PRESENTED BY 

714.542.2023 discoverycube.org
200 North Main Street, Santa Ana, CA 92705

Present this coupon at any Discovery Cube Orange County ticket service for one free child general admission (ages 5-14) per adult general admission ticket purchased. Valid any day Discovery Cube is open to the public and regular tickets are on sale. Not valid for special events. Please read coupon rules for presentation and terms to service. No photocopies accepted. Cannot be redeemed online or combined with any other offer or discount. Limit 6 discounts per coupon. Hours, prices, promotions and exhibit availability are subject to change without notice. Valid until 12/31/16.

 988000093

Discovery Cube Orange County is a non-profit 501(c)(3) organization. All rights reserved ©Discovery Science Foundation.

**41% increase
in traffic to
ocEcoChallenge.com**



Challenge events, Angels Baseball Eco Challenge Poster Contest and a free child admission coupon to visit the County's Eco Challenge exhibits at Discovery Cube. These efforts have resulted in a 41% increase in traffic to this website and 2,312 visits to Discovery Cube and the Eco Challenge exhibit, representing a strong indicator that our messaging has been meaningful and impactful.

Results:

Visits Added to Eco Challenge: 2,312
Traffic to ocEcoChallenge.com: 146,229
Total Impressions: 2,059,250
Total Cost Avoidance: \$89,500

Recommendation

Discovery Cube and OCWR's online marketing has continued to prove a major resource and fundamental tool in communicating Eco Challenge collection events and activities to a targeted, captive audience of core families interested in Discovery Cube, Eco Challenge exhibits, education, and outreach programs. In partnering with Discovery Cube, OCWR has gained access to this valuable audience. Discovery Cube has been successful in driving its members to Eco Challenge collection events and becoming engaged in Eco Challenge initiatives. It is recommended to continue these activities as a minimum baseline and to expand marketing opportunities through other venues for promoting all Eco Challenge initiatives.

Marketing & Promotion - Outreach & Education Opportunities

Throughout the year, a clear emphasis was placed on participating in outreach and educational activities in the community, as recommended from 2013. In addition to outreach efforts under the County's agreements with Angels Baseball and Anaheim Ducks, OCWR attended various community events and made free child admission coupons to visit the County's Eco Challenge exhibits at Discovery Cube available in County offices, agencies and an increased number of partners in the community.

Community Events

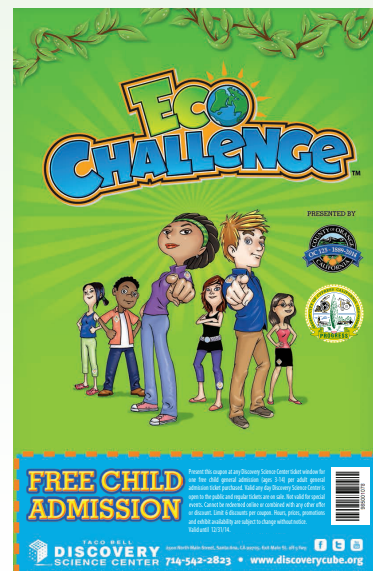
OCWR attended various events in the community to share Eco Challenge messaging and distribute collateral containing a free child admission coupon to visit the County's Eco Challenge exhibits at Discovery Cube. These events allowed OCWR to speak directly with the general public (families specifically) in a setting where surveys could be conducted, information could be shared, and free child admission coupons to visit the County's Eco Challenge exhibits at Discovery Cube could be distributed. This is a valuable vehicle for OCWR to take a grassroots approach to communicating with its target audience.

County Office Displays

OCWR also took a proactive approach to gain support and visibility among County staff by placing Eco Challenge displays and free child admission coupons to visit the County's Eco Challenge exhibits at Discovery Cube inside County offices. This is great not only as a traffic driver, but also as a mechanism for familiarizing staff with Eco Challenge and gaining their support.

Third Party Coupon Distribution

Discovery Cube supported the County's efforts to make free child coupons available to all of its community partners and agencies so that they could encourage their audience to visit the County's Eco Challenge exhibits at Discovery Cube. This included creation of online coupons, newsletter inclusions, printed collateral and more, as well as distribution at the County's HHW Centers as recommended from 2013's program.



Results:

Visits Added to Eco Challenge: 1,114

Total Cost Avoidance: \$21,500

Recommendation

It is recommended for the County to continue the promotion of Eco Challenge and educational outreach through the activities designated previously in addition to opportunities that arise in the next year. There is unquantifiable value in direct, face-to-face communication with residents at community events. While free child admission coupon distribution and redemption at the County's Eco Challenge exhibits is important, the educational engagement opportunity associated with these events is the main benefit from these activities. In the next year, it is recommended to continue to build this program, especially where opportunities arise with the partnership of other organizations in the community.





Fact Sheet

The County's Household Hazardous Waste Program serves over 3 million residents by utilizing a private-public partnership with local businesses, non-profits and all 34 cities in the County of Orange.

The Program Consist of:

- 4 Regional, Permanent HHW/ E-Waste Collection Centers
- Community Outreach & Collection Events (average 7 annually)
- Additional services:
 - Material Reuse Program
 - Latex Paint Recycling Program
 - Door-to-Door Collections for Elderly and Disabled
 - Landfill Load Check
 - Education & Outreach
- Successful Partnerships
 - 34 Cities
 - Private Haulers
 - Goodwill of OC
 - Angels Baseball LP
 - Inside the Outdoors
 - Discovery Cube OC
 - County of Orange Agencies



County of Orange

Household Hazardous Waste Program

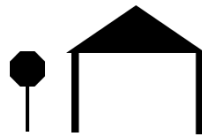
Program Background

Appendix D

- In operation since 1990
- **Program Mission**- The mission of OC Waste & Recycling is to provide waste management services, protect the environment, and promote recycling in order to ensure a safe and healthy community for current and future generations.
- **Program Objective**- To provide Orange County residents with an accessible and safe system for proper disposal of their Household Hazardous Waste (HHW) and Electronic Waste with the goal of reducing illegal disposal of HHW in landfills, streets, storm water drains, and sewers.
- **Program Partnerships**- Collaborative educational outreach partnerships with the County's Environmental Health Care Agency, all 34 cities, private facility operators, Goodwill of OC, Angels Baseball LP, Discovery Cube OC and Orange County Department of Education.

Program Statistics - Fiscal Year 2013/14

118,921 Participants



utilized the County's HHW Centers

710,972 lbs



of HHW reused through the Material Reuse Program

6,934,130 lbs



of HHW collected at the County's 4 HHW centers

... and an **18%** increase in participation since FY 05/06.

Permanent Collection Center Cost - Fiscal Year 2013/14

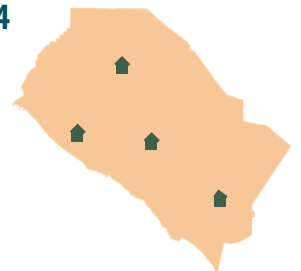
- Average operational cost per pound – \$0.60
- Average operational cost per participant – \$34.88
- Total participating households – 118,921
- Average lbs per participant – 58
- Total Annual HHW Program cost – \$4.1 million

Community HHW Collection Events Cost (7) - Fiscal Year 2013/14

- Average operational cost per pound – \$1.01
- Total participating households – 982
- Average lbs per participant – 86
- Total Community Outreach HHW Collection Event cost – \$85,545.78

County Material Reuse Program - Fiscal Year 2013/14

- Free for Orange County Residents
- Total HHW pounds reused – 710,972
- Total participating households – 18,936
- Total savings to the County – \$708,533





Agenda Item 6 – *OC Waste & Recycling Strategic Plan – Dylan Wright, Director*

Staff will present the draft final plan with changes based on the Commission's review at its meeting on November 5, 2015.

Recommended Action: Approve finalization and presentation of the draft final OC Waste & Recycling Strategic Plan to the County of Orange Board of Supervisors.

Attachment A: Draft Final OC Waste & Recycling Strategic Plan

STRATEGIC PLAN

Presented to the Waste Management Commission
by OC Waste & Recycling
December 2015



TABLE OF CONTENTS

I)	ORANGE COUNTY BOARD OF SUPERVISORS.....	3
II)	WASTE MANAGEMENT COMMISSION	3
III)	EXECUTIVE SUMMARY	4
IV)	VISION AND MISSION	5
A)	VISION	5
B)	MISSION	5
V)	INDUSTRY ANALYSIS.....	6
A)	TONNAGE TRENDS	6
B)	LEGISLATIVE, REGULATORY AND WASTE DIVERSION PROGRAM IMPACTS	7
VI)	SYSTEM OVERVIEW	8
A)	LANDFILLS	8
B)	HOUSEHOLD HAZARDOUS WASTE COLLECTION CENTERS (HHWCCS)	8
C)	RENEWABLE TECHNOLOGIES	8
D)	CURRENT AND PROJECTED CAPACITY	9
E)	LANDFILL PHASING PLANS	11
VII)	GOALS AND STRATEGIES.....	13
	APPENDIX A - 2002 RELOOC SHORT AND LONG TERM STRATEGIC PLAN UPDATE.....	16
	APPENDIX B – MAP OF ORANGE COUNTY’S LANDFILLS AND HHWCC	21
	APPENDIX C -- LANDFILL FACILITY INFORMATION AND CAPACITY PHASING PLAN.....	22

I) ORANGE COUNTY BOARD OF SUPERVISORS



**TODD
SPITZER**

Board Chairman
Supervisor
Third District



**LISA A.
BARTLETT**

Vice Chair
Supervisor
Fifth District



**SHAWN
NELSON**

Supervisor
Fourth District



**MICHELLE
STEEL**

Supervisor
Second District



**ANDREW
DO**

Supervisor
First District

II) WASTE MANAGEMENT COMMISSION

CHAIR

Chad P. Wanke
4th District

3RD DISTRICT

Mike Alvarez
Donald R. Froelich
Steve Chavez Lodge

**CITY MANAGERS'
REPRESENTATIVE**
Doug Chotkevys

VICE CHAIR

David J. Shawver
At Large

4TH DISTRICT

Charles Kim
Christine Marick

**DIRECTOR,
OC WASTE & RECYCLING**
Dylan Wright
Ex Officio

1ST DISTRICT

Xuan-Nhi Van Ho
Deepak J. Krishan
Michele Martinez

5TH DISTRICT

Cynthia Conners
Joe Soto
Mark Tettermer

2ND DISTRICT

Rob Johnson
Joe Carchio
Tina Nieto

III) EXECUTIVE SUMMARY

The County of Orange owns one of the premier disposal systems in the nation. OC Waste & Recycling is responsible for managing the County's disposal system which includes three active regional landfills and four permanent household hazardous waste collection centers. OC Waste & Recycling also maintains or monitors 20 closed disposal sites. As a result of careful planning, improved landfilling techniques and a reduction in in-County daily tonnage, current projections reflect landfill capacity in excess of 50 years - far exceeding the State's minimum requirement of 15 years.

In 2002, the Board of Supervisors approved the Regional Landfill Options for Orange County Strategic Plan (RELOOC) which assessed disposal system capabilities at the time and identified goals and strategies needed to ensure viable long-term disposal options for the County. The primary focus of RELOOC was to ensure sufficient disposal system capacity for a 40-year period.

The goals established under RELOOC are still relevant and in alignment with the department's Mission. However, with the support and guidance of the Board of Supervisors and the diligent efforts of department staff, the strategies established in 2002 have been largely completed. In addition, significant changes in the solid waste industry have resulted in a paradigm shift from landfill capacity alone to landfill capacity, waste disposal alternatives and rate stability. As such, it is necessary to update RELOOC to include new strategies responsive to the new paradigm.

This updated strategic plan, the OC Waste & Recycling Strategic Plan, is the product of the cumulative efforts of department staff, the Board of Supervisors, the County of Orange Waste Management Commission, and other stakeholders. Annually, the department will report progress on strategies and submit any recommended plan updates to the Board of Supervisors for approval. In depth assessments will be performed periodically as changes in the industry warrant.

As a result of this collaborative process, the following new strategies were established:

1. Maintain Waste Disposal Agreements
2. Continue waste importation post-2016
3. Develop a renewable technology implementation plan
4. Develop an enhanced master capital expenditures planning system
5. Extend active landfill closure dates
6. Review current disposal rate structure and analyze alternative revenue options
7. Continue to implement best management/operational practices
8. Be a regional leader in educating the public about waste reduction, reuse and recycling

IV) VISION AND MISSION

A) VISION

To be the best waste management system in America

B) MISSION

- To provide waste management services,
- To protect the environment, and
- To promote recycling in order to ensure a safe and healthy community for current and future generations.

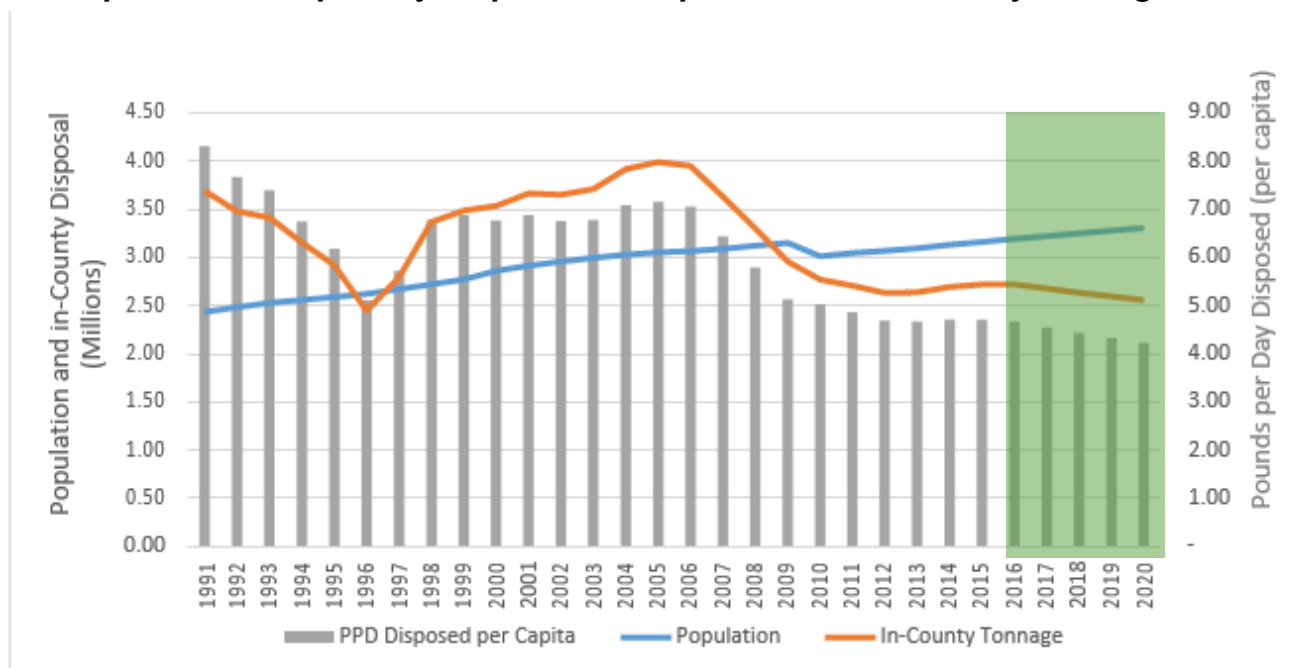
V) INDUSTRY ANALYSIS

A) TONNAGE TRENDS

Prior to 1997, the County did not have Waste Disposal Agreements with Orange County cities and landfill fees were adjusted annually. Through 1996, an increasing quantity of Orange County city waste was being sent to non-County landfills. With the execution of the County's first WDAs in mid-1997, in-County waste returned to the system. Disposal tonnage continued to increase until 2006 due to the growing economy, the housing boom, and population growth. The economic downturn in 2007, combined with new County recycling programs, resulted in a 30% loss of in-County tonnage over the next few years.

In-County disposal has shown only a slight increase since the economy stabilized. Due to continued County recycling efforts and new legislative actions described below, disposal volumes are not anticipated to return to pre-2007 levels and OC Waste & Recycling is planning accordingly. In order to help ensure a stable revenue source despite lower tonnage levels, OC Waste & Recycling is seeking to maintain existing WDAs and extend the importation of waste, in addition to reviewing the existing rate structure in the furtherance of Strategies #1, 2 and 6.

Graph 1: Pounds-per-day Disposed vs Population and In-County Tonnage to 2020



Note: After the establishment of the WDAs in 1997, there was a spike in in-County tonnage as waste previously exiting the system was recaptured.

B) LEGISLATIVE, REGULATORY AND WASTE DIVERSION PROGRAM IMPACTS

The State of California continues to pass legislation in support of additional recycling, with greater restrictions on air emissions, and a strong emphasis on developing the organics recycling industry. Recent and future State mandates are anticipated to result in the continued reduction in landfilled waste, greater operating costs at our landfills, and the need to develop new waste processing facilities. Key legislation includes the following:

- (1) AB 939 (1989) – Cities were required to reach 50% diversion by 2000, implement recycling programs, and to report disposal to the State.
- (2) AB 32 (2006) - The Global Warming Solutions Act, requires that the California Air Resource Board (CARB) develop a scoping plan, identifying strategies to reduce greenhouse gas emissions. CARB's scoping plan targeted the handling of green waste and other organics in an effort to reduce landfill gas emissions.
- (3) AB 341 (2011) – The State set a Statewide (not city-by-city) landfill diversion goal of 75% by 2020, and redefined what constituted diversion for this determination. AB 341 also phased in mandatory commercial and multi-family recycling programs.
- (4) AB 1594 (2014) – Green waste used as daily landfill cover will no longer receive recycling credit beginning in 2020. This applies to a significant portion of the over 550,000 tons of green waste OC Waste & Recycling accepts each year. A large portion of this material will need to be sent to a composting or other organics processing facility to continue being considered “recycled.”
- (5) AB 1826 (2014) - Requires mandatory commercial organics (food and green waste) recycling to be phased in beginning 2016.

Existing organics facilities are insufficient to process the additional demand that will be created by AB 1594 and AB 1826, and the State is supporting the development of additional composting and anaerobic digester facilities to accept the material as demand grows. Anticipated declines in disposal tonnage increases OC Waste & Recycling's need to diversify its revenue sources, potentially through the development of organics facilities.

VI) SYSTEM OVERVIEW

Since 2002, as approved by the Board of Supervisors, development of the solid waste disposal system has been guided by the Regional Landfill Options for Orange County Strategic Plan (RELOOC). RELOOC established overarching goals and short and long-term strategies to address the County's solid waste disposal needs and ensure economic viability of the solid waste disposal system. The strategies established by RELOOC, except for those that are ongoing, have been completed as seen in [Appendix A](#). As such, new strategies are included in this strategic plan update.

A) LANDFILLS

OC Waste & Recycling manages three active landfills conveniently located in the northern, central and southern regions of the County: Olinda Alpha Landfill is located near the City of Brea, Frank R. Bowerman (FRB) Landfill is located near the City of Irvine and the Prima Deshecha Landfill is located partially in a County unincorporated area, the City of San Juan Capistrano and the City of San Clemente. Together these landfills provided safe disposal for approximately 4.6 million tons of waste in 2014-15 (includes both in-County and imported waste). OC Waste & Recycling also maintains or monitors 20 closed landfill sites.

B) HOUSEHOLD HAZARDOUS WASTE COLLECTION CENTERS (HHWCCS)

OC Waste & Recycling operates four regional HHWCCs located in the cities of Anaheim, Huntington Beach, Irvine, and San Juan Capistrano. HHWCCs offer convenient drop-off locations for the County's residents, meet all regulatory requirements, and offer a Materials Reuse Program area for residents to obtain partially used qualified materials. These programs are an effective way to manage household hazardous waste while reducing illegal and improper disposal of hazardous wastes.

C) RENEWABLE TECHNOLOGIES

OC Waste & Recycling currently has renewable energy facilities at three of our landfill sites with two more facilities either in the planning stage or under construction. These facilities currently generate sufficient electricity to power 25,500 homes with capacity to power an additional 14,500 homes, provide power for site operations, and offset electricity at other County facilities when the projects are completed. These five facilities generate, or are projected to generate, a total of 86 megawatts.

In order to meet the ever-increasing recycling requirements implemented by the State, the Department is looking to new technologies. In 2015, OC Waste & Recycling undertook a comprehensive study of renewable technologies to identify short range actions and a longer term strategy for renewable technologies implementation in order to help provide the best regional solid waste management services possible. This Renewable Technology Implementation Plan supports Strategy #3 and is anticipated to be completed by summer 2016.

The map in **Appendix B** depicts the location of the active landfill sites and household hazardous waste collection centers.

D) CURRENT AND PROJECTED CAPACITY

Under current projected conditions, the system has landfill capacity until the turn of the century as indicated in Table 1.

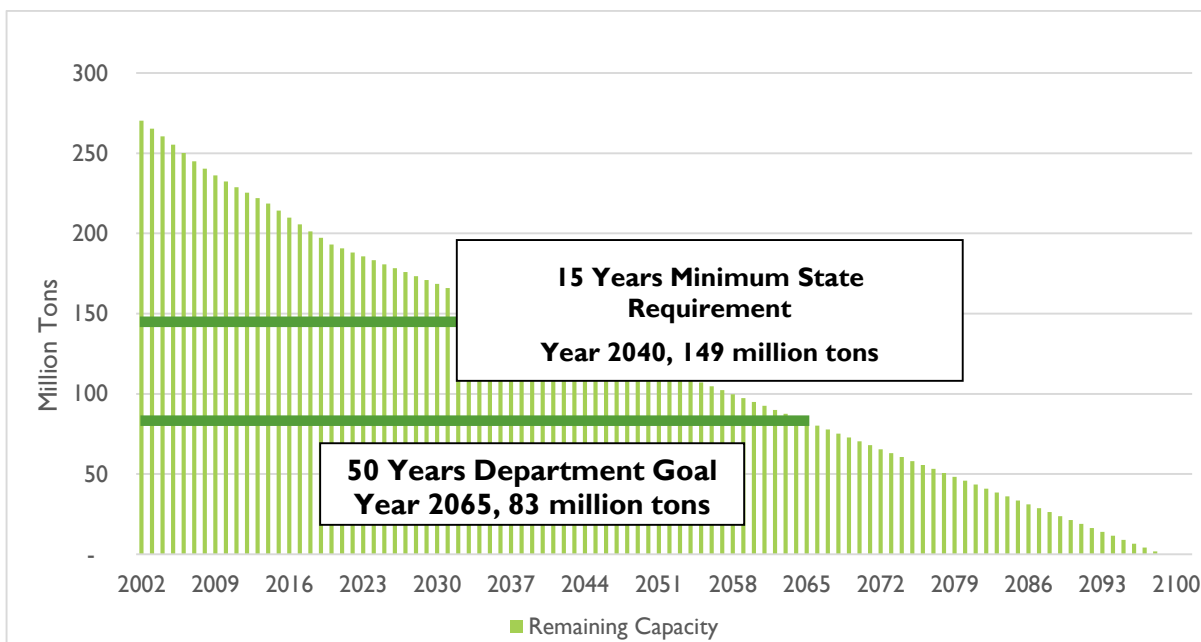
Table 1: Landfill Closure Dates: Permitted and Estimated Capacity

Region	Landfill	Date Opened	Permitted Closure Date	Estimated Closure by Capacity Date
North	Olinda Alpha	1960	2021	2034
Central	Frank R. Bowerman	1990	2053	2075
South	Prima Deshecha	1976	2067	2101

Note: Assumes current level of imported waste through 2020. Continuation of importation will be reassessed based on Board policy, available capacity and financial need at that time.

At the end of fiscal year 2013-14, the disposal system had approximately 219 million tons of remaining capacity. In 15 years (2040), the disposal system is projected to have 149 million tons of remaining disposal capacity. OC Waste & Recycling's current goal is to maintain 50 years of system life so that by 2065, the disposal system is expected to have 83 million tons of remaining capacity. Graph 1 shows the projected capacity through the life of the disposal system

Graph 1: Remaining Capacity of the Disposal System



Ensuring disposal capacity for current and future generations is a key component of OC Waste & Recycling's mission. The regional landfill system is a valuable asset, providing an essential public service that contributes to the health and well-being of Orange County residents.

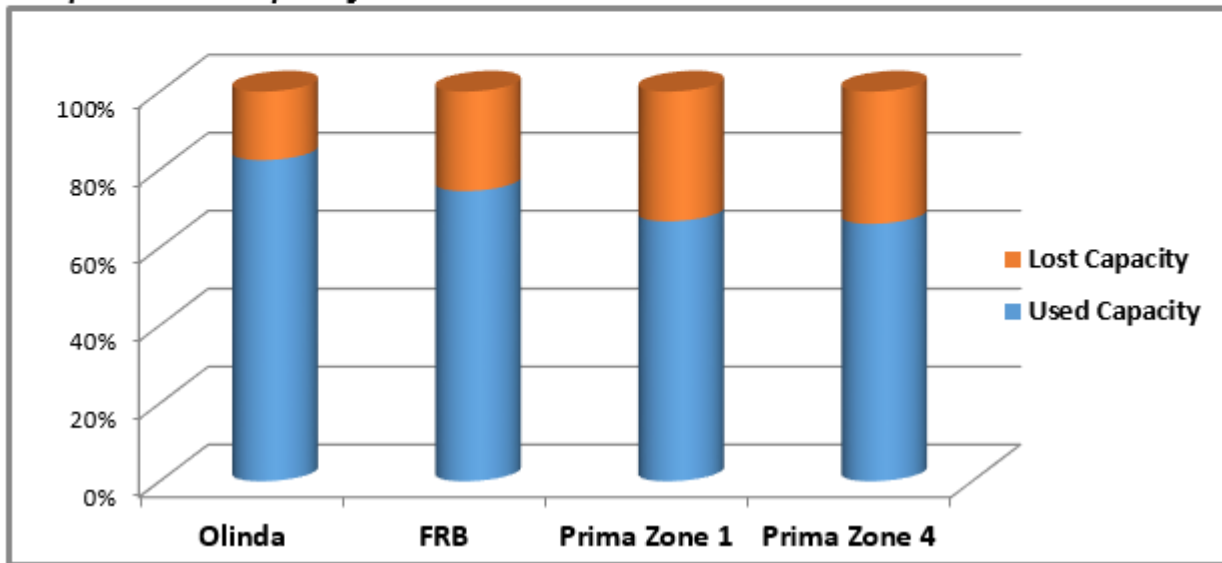
With rapid development of new communities and continued urbanization, siting and development of new landfills within Orange County is unlikely. Therefore, OC Waste & Recycling is taking proactive steps to maximize capacity at all three active landfills. The Olinda Alpha Landfill is currently permitted to close in 2021, and Zone 1 of the Prima Deshecha Landfill is permitted to close in 2019. With Strategies #4, 5 and 7 as a guide, OC Waste & Recycling will work to extend Olinda Alpha, FRB and Prima Deshecha permitted closure dates.

As shown in Table 2 and Graph 2, substantial capacity will be lost if the landfills are closed by current permitted closure dates. Premature closures will result in significant underutilization of the County's long-term investment by not optimizing asset value and will leave future generations with fewer local disposal options.

Table 2: Lost Capacity Based on Closure of Landfills on Permitted Dates

Landfill	Permitted Closure Date	Estimated Closure by Capacity Date	Lost Capacity (million tons)	% Loss
Olinda Alpha	2021	2034	14.0	18%
Frank R. Bowerman	2053	2075	37.7	26%
Prima Deshecha	2067	2101	31.0	33%

Graph 2: Lost Capacity Based on Closure of Landfills on Permitted Dates



E) LANDFILL PHASING PLANS

To maximize landfill capacity and ensure the highest possible use of available airspace, a strategic phasing plan systematically guides development at each one of the County's three landfills. Landfill phasing is the process of planning, permitting, designing and initiating construction for the next disposal phase of the landfill before the current phase reaches its capacity.

OC Waste & Recycling has prepared comprehensive General Development Plans (GDPs) for all three landfills in order to maximize capacity at each landfill while minimizing the operational footprint to surrounding native areas and habitats. The plans estimate construction requirements, amount of capacity gained and general timelines through the life of each landfill.

Careful planning and conscientious execution of each phase of the GDP has enabled the department to adequately plan for infrastructure needs based on current disposal and operational requirements (i.e. cells are not constructed too late or too soon); facilitated

operational efficiencies; helped ensure that large and complex landfill infrastructure is developed in a safe and environmentally sensitive manner; and minimized overall expenditures.

Appendix C reflects the current landfill phasing plans and related schedules. The Olinda Alpha Landfill does not have construction phases as the site is scheduled for vertical, not horizontal, expansion.

VII) GOALS AND STRATEGIES

OC Waste & Recycling's four (4) strategic goals are as follows:

Goal #1 -- Maintain a financially sound, flexible long-term plan for local solid waste disposal and management services.

Goal #2 -- To maintain protection of Orange County's public health, safety and its environment (air, water and habitat).

Goal #3 -- To sustain the economic viability of the Orange County solid waste disposal system by ensuring consistent and reliable public fees/rates and adequate revenues to maintain efficient, cost effective and high quality OC Waste & Recycling operations.

Goal #4 -- To provide a fair, objective, open, planning process that is: presented in non-technical, easily understood terms, applicable to an evaluation matrix, responsive to and involves stakeholders and the public and results in public understanding.

The eight (8) strategies below support the goals listed above:

Strategy #1 -- Maintain Waste Disposal Agreements (WDAs)

- ❖ Objective: To ensure a stable revenue source for disposal system operations and expansions and to provide a predictable, competitive disposal rate for Orange County residents and businesses. *Aligns with and advances Goals #1 and 3.*
- ❖ Action: Begin negotiations for new WDAs.
- ❖ Target Completion Date: At least 18 months prior to expiration of existing WDAs.

Strategy #2 -- Continue Waste Importation Post 2016

- ❖ Objective: To provide funds to help stabilize in-County disposal rates, repay bankruptcy related obligations and enable potential revenue sharing to remain market competitive and ensure landfill capacity optimization. *Aligns with and advances Goals #3 and 4.*
- ❖ Actions: Continue to pursue amendment to current 2010-2020 WDA to allow for continued importation beyond 2016. Assess options for continued importation post-2020.
- ❖ Target Completion Date: Prior to the end of December 2015 or current WDAs.

Strategy # 3 – Develop a Renewable Technology Implementation Plan

- ❖ Objective: To develop a plan that includes a waste conversion technology element to facilitate compliance with state waste diversion mandates and a landfill gas to energy element to further diversify revenues and support disposal rate stabilization. *Aligns with and advances Goals #2, 3, and 4.*

- ❖ Actions: Utilize the Renewable Technology Implementation Plan, (RTIP) to develop short term and long term renewable technology options. Monitor and promote legislation and public education that advances alternative technology.
- ❖ Target Completion Date: April 2016 for RTIP.

Strategy #4 -- Develop an Enhanced Master Capital Expenditures Planning System

- ❖ Objective: To increase agility in long range planning for capital projects based on fluctuations in disposal tonnages. *Aligns with and advances Goals #1 and 3.*
- ❖ Actions: Utilize the planning tool to efficiently adjust project planning based on key variables.
- ❖ Target Completion Date: January 2016.

Strategy #5 -- Extend Olinda Alpha, Frank R. Bowerman and Prima Deshecha permitted closure dates

- ❖ Objective: To optimize the value of the County's disposal system and ensure long-term capacity. *Aligns with and advances Goals #1 and 3.*
- ❖ Actions: Begin coordination of CEQA review and analysis of host city impact.
- ❖ Target Completion Date: At least 2 years prior to permit revision.

Strategy #6 -- Review Current Disposal Rate Structure and Analyze Alternative Revenue Options

- ❖ Objective: To ensure appropriate and optimal revenue diversification. *Aligns with and advances Goals #3 and 4.*
- ❖ Actions: Consider alternative revenue sources and evaluate current service levels for possible rate structure revitalization.
- ❖ Target Completion Date: Ongoing.

Strategy #7 - Continue to Implement Industry Best Management/Operational Practices

- ❖ Objective: To increase efficiency and reduce costs. *Aligns with and advances all Goals.*
- ❖ Actions: Identify operational improvements and pursue industry best practices.
- ❖ Target Completion Date: Ongoing.

Strategy #8 - Provide regional leadership for waste reduction, reuse and recycling in Orange County.

- ❖ Objective: Expand our existing public outreach and education program utilizing surcharge funds. *Aligns with and advances Goal #2.*
- ❖ Actions: Monitor and promote legislation and programs that encourage waste reduction, reuse and recycling.
- ❖ Target Completion Date: Ongoing.

APPENDIX A - 2002 RELOOC SHORT AND LONG TERM STRATEGIC PLAN UPDATE

Short Term Strategy #1	<i>Fully use the existing landfill system capacity by maximizing operations efficiency at existing landfills.</i>	
	Action	Completed
	Continue to review landfill operations for use of new equipment and practices for optimum compaction to maximize capacity. Report on current and planned practices for optimizing compaction during annual review of RELOOC Strategic Plan.	✓
	Monitor on an ongoing basis the availability, applicability, and cost effectiveness of alternative daily and final covers and liners that maximize capacity. Report on alternative daily and final cover uses (current and planned) during annual review of the RELOOC Strategic Plan.	✓
	Conduct a feasibility study of bio-cell technology (breaking down solid waste to create greater capacity) at Prima Deshecha Landfill within two years of Board of Supervisors concurrence on the Strategic Plan Phased Approach.	✓
	Implement bio-cell technology at Prima Deshecha Landfill, if deemed feasible, within five years of feasibility determination. Implementation includes application to regulatory agencies, CEQA analyses, and revisions to operating permits and landfill operational procedures.	Not feasible

Short Term Strategy #2	<i>Fully use the existing landfill system capacity by vertically expanding Frank R. Bowerman Landfill to maximize landfill site capacity.</i>	
	Action	Completed
	Initiate a CEQA/EIR process upon Board of Supervisors approval of the Strategic Plan Phased Approach (scheduled for 2002).	✓
	Complete the CEQA process and Board of Supervisors certification of the EIR, and approval of the project to expand the FRB Landfill (scheduled for 2004).	✓
	Finalize Agreement with City of Irvine for vertical expansion of FRB Landfill coinciding with the EIR certification and approval of the Strategic Plan.	✓
	Revise landfill operating permits for vertical expansion of FRB Landfill within two years of the EIR certification and approval of the Strategic Plan.	✓

Short Term Strategy #3	<i>Fully use the existing landfill system capacity by vertically and horizontally expanding Olinda Alpha Landfill to maximize landfill site capacity.</i>	
Action		Completed
Initiate a CEQA/EIR process upon Board of Supervisors approval of the Strategic Plan Phased Approach (scheduled for 2002).		✓
Complete the CEQA process and obtain Board of Supervisors certification of the EIR and approval of the project to expand and extend the life of the Olinda Alpha Landfill (scheduled for 2004).		✓
Finalize Agreement with City of Brea for expansion and extension of 2013 closure date for Olinda Alpha Landfill coinciding with the EIR certification and approval of the Strategic Plan.		✓
Revise landfill operating permits for expansion and extension of 2013 closure date for Olinda Alpha Landfill within two years of the EIR certification and approval of the Strategic Plan.		✓

Short Term Strategy #4	<i>Fully use the existing landfill system capacity by promoting diversion, recycling, and market development with the public and haulers.</i>	
Action		Completed
Develop a plan to expand public outreach programs implemented by IWMD and coordinate with cities to provide education on how programs by cities and practices by citizens to reduce, recycle, and reuse solid waste will result in maximizing In-County landfill capacity. The expanded public outreach program should be developed within two years of Board of Supervisors approval of the RELOOC Strategic Plan		✓
Develop a plan to support practices in the County by commercial haulers and self-haulers to increase solid waste diversion such as identifying new waste streams that can be recycled. Seek input from haulers through the Waste Industry Technical Advisory Committee (formed to advise the IWMD Director) and report on practices and ways to support those practices during annual review of the RELOOC Strategic Plan.		✓
Develop a plan to monitor and promote legislation and incentives that develops existing and creates new markets for recycled products. Support legislation that will benefit Orange County's market for recycled products through advocacy with legislators. Develop a plan to educate and offer incentives to Orange County residents to purchase recycled products. Report on education/advocacy efforts and legislation reviewed and supported during annual review of RELOOC Strategic Plan.		✓

Short Term Strategy #5	<i>Seek to resolve the community's concerns related to the extended use of the landfills.</i>	
Action		Completed
Negotiate conditional agreements to address impacts with host Cities affected by the RELOOC Phase 1 strategies conditioned on Board of Supervisors approval. Conditional agreements with host cities to be approved by the Board of Supervisors concurrent with approval of the RELOOC Strategic Plan.		✓
Upon Board of Supervisors approval and certification of the EIR for landfill expansion at the FRB and Olinda Alpha landfills, finalize host City agreements including any modifications to mitigations and associated compensation resulting from the EIR process.		✓

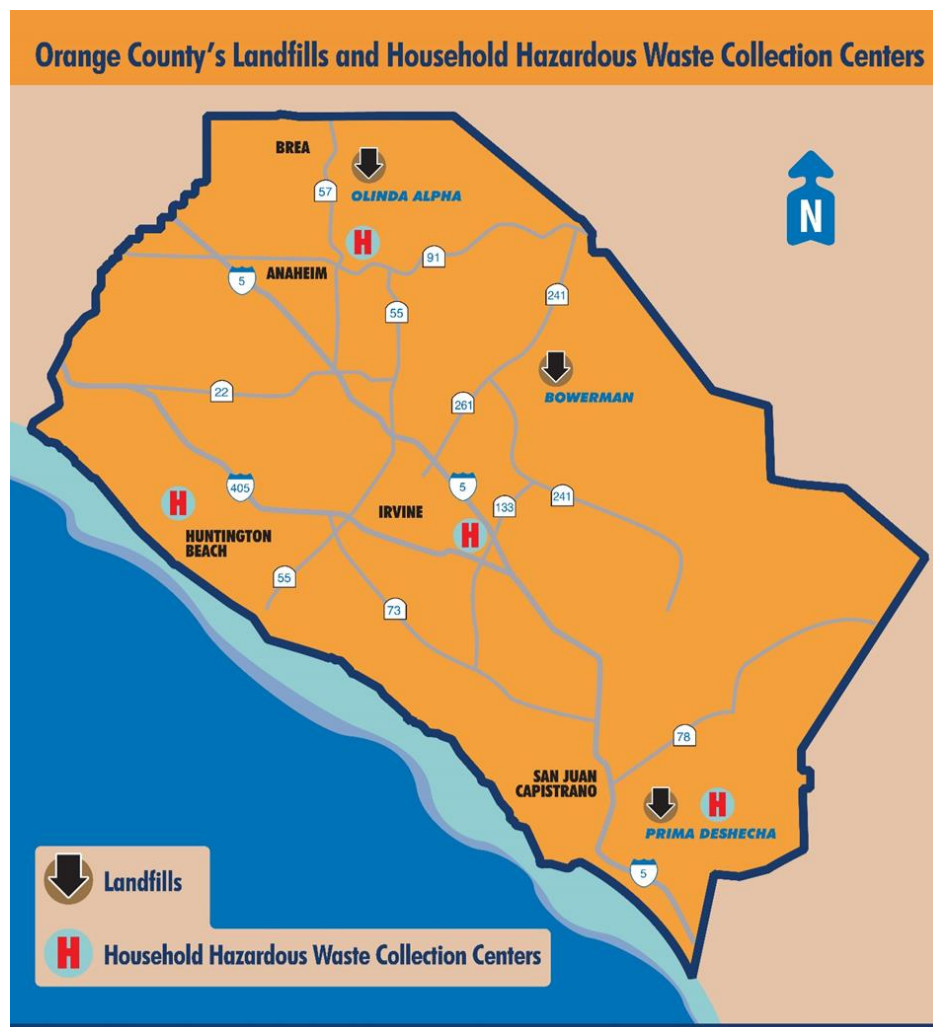
Short Term Strategy #6	<i>Annually review the RELOOC Strategic Plan and modify, as appropriate, in response to disposal industry trends and advances in technology.</i>	
Action		Completed
Monitor disposal industry trends/options such as the development of regional rail haul sites, planning studies for the required inter-modal/transfer facilities, and identification of out-of-County disposal contract options. Report on disposal industry trends/options and impacts, if any, on Orange County's solid waste disposal system during the annual review of RELOOC Strategic Plan.		✓
Monitor alternative technologies and evaluate applicability of potential technologies to Orange County's solid waste system. Recommend that the County's Legislative Platform include a support position for innovative and alternative technologies to reduce waste. Investigate existing disincentives that are preventing the advancement of emerging and alternative technologies and develop strategies for addressing those disincentives. Report on alternative technologies evaluated and potential for use in Orange County during the annual review of RELOOC Strategic Plan.		✓
Annually review the RELOOC Strategic Plan concurrent with the annual review of IWMD's 15-year Financial Plan with the Waste Management Commission and City Manager's Solid Waste Working Group.		✓
Recommend modifications or additions to the RELOOC Strategic Plan, if appropriate, based on annual review findings.		✓

Long Term Strategy #1	<i>Determine if there is a need to increase the daily amount of solid waste permitted at the Prima Deshecha Landfill five years prior to the closure of Olinda Alpha.</i>	
Action		Completed
Assess cost and level of control implications associated with exporting waste out-of-County and the benefit of retaining waste in-County for as long as possible.		✓
If the above assessment determines that waste should be retained in-County for as long as possible, re-evaluate capacity and demand projections for the County and determine the required increase in permitted daily waste disposed at the Prima Deshecha Landfill in order to accommodate in-County waste at the two remaining landfills.		✓
<i>If an increase in permitted daily tonnage at the Prima Deshecha Landfill is deemed necessary, the following actions would be required:</i>		
Assess impacts on surrounding cities affected by increased tonnage identified through a Community Involvement Program.		✓
Negotiate and revise Agreements to address mitigations with affected cities.		✓
Revise landfill operating permits, including the preparation of required environmental documents.		✓

Long Term Strategy #2	<i>Identify strategies to support, develop and implement feasible, viable, alternative technologies or other approaches to maximize landfill capacity for possible consideration in future Waste Disposal Agreements.</i>	
Action		Completed
Prepare a plan to educate the public about the use of technology for waste disposal and the important role and responsibility the public has in supporting the location and operation of safe new technology in Orange County. The public education process for alternative technologies should be implemented concurrent with the public outreach program to be developed as part of Short-term Strategy Number 4.		✓
Subsequent to any RELOOC Strategic Plan annual review that identifies potentially viable alternative technologies or other approaches to maximize landfill capacity in Orange County, determine economic viability of and the actions or steps necessary to support, develop and/or implement those approaches.		✓
Modify the RELOOC Strategic Plan, as appropriate, prior to renegotiation of any Waste Disposal Agreements to reflect the implementation of feasible, viable, alternative technologies or other approaches to reduce dependence on landfills.		✓

Long Term Strategy #3	<i>Complete a study to determine the feasibility of expanding FRB Landfill into the adjacent Round Canyon prior to renegotiation of the 2017-2027 Waste Disposal Agreements.</i>	
Action		Completed
Assess impacts on biological resources and existing reserves and identify potential mitigation requirements of regulatory agencies.		✓
Obtain input from the environmental community concerning the Natural Community Conservation Plan (NCCP) and related environmental issues through an Involvement Program.		✓
Determine ability/opportunity to mitigate impacts on biological resources and existing reserves and take action, if appropriate, to secure lands for biological mitigation.		✓
Assess impacts on the City of Irvine due to expansion of the FRB Landfill into Round Canyon identified through a Community Involvement Program.		✓
Assess the timing of the feasibility study and associated actions to maximize coordination with current and anticipated regional environmental planning efforts.		✓
<i>If a decision were made to expand FRB into Round Canyon, the following additional actions would then be required:</i>		No expansion
Renegotiate Agreement with City of Irvine to address required mitigation.		N/A
Take appropriate action to purchase Round Canyon for potential landfill expansion.		N/A
Revise County Recreational Plan regarding Limestone Canyon Regional Park.		N/A
Amend the NCCP for Round Canyon and take other actions deemed necessary for mitigation of impacts to biological resources and existing reserves.		N/A
Revise landfill operating permits, including the preparation of required environmental documents.		N/A
<i>If a decision is made not to expand FRB into Round Canyon, any lands purchased for biological mitigation could be sold or retained as open space.</i>		

APPENDIX B – MAP OF ORANGE COUNTY'S LANDFILLS AND HOUSEHOLD HAZARDOUS WASTE COLLECTION CENTERS



APPENDIX C -- LANDFILL FACILITY INFORMATION AND CAPACITY PHASING PLAN

Olinda Alpha Landfill (OAL)

The North Region consists of the active Olinda Alpha Landfill which is located entirely within unincorporated Orange County, just north of the City of Brea. The landfill is permitted to accept up to 8,000 tons of solid waste per day, with a maximum annual average daily tonnage of 7,000 tons per day. Olinda Alpha Landfill has a current permitted closure date of 2021, although it currently has available capacity until 2034. The landfill receives 6,700 tons daily with approximately 3,050 from in-County and 3,700 through importation.

OC Waste & Recycling intends to seek a permit extension to allow for the continuation of landfill operations through approximately 2034.

Facility Information:

Owner:	County of Orange, OC Waste & Recycling
Address:	Olinda 1942 N. Valencia Ave., Brea, CA 92823
Operating Days:	Monday through Saturday (307 days/year)
Operating Hours:	6:00 a.m. to 4:00 p.m.
SWFP No.	30-AB-0035
SWFP Issue Date:	5/27/2010
Last 5-year Review:	05/29/2015
Next 5-Year Review Due:	05/28/2020
Permitted Closure Date	2021
Capacity Closure Date:	2034
Available Airspace (6/30/2014)	37.7 million cubic yards
Available Capacity (6/30/2014)	22.64 million tons
Maximum Permitted Daily Capacity:	8,000 TPD for 271 days per year 10,000 TPD for 36 days per year
Maximum Average Annual Daily:	7,000 TPD or 2,149,000 tons annually
Cooperative Agreement/MOU	City of Brea, July 14, 2009
Daily Waste Disposed	Average:
In-County	3,052 tons
Imported	3,687 tons
Land Use/Conditional Use Permit:	Permit No: N/A
Waste Discharge Requirements:	Order No: R8-2010-0006 Effective:01/29/2010
Permitted Waste Type:	Municipal Solid Waste, Class III Landfill
Future Land Use:	Open Space, Renewable Technologies
Additional information	Broadrock LFGTE Plant – 34 MWh
Restrictions:	EIR based on achieving elevation of 1,415 AMSL

Frank R. Bowerman (FRB) Landfill

The Central Region consists of the active Frank R. Bowerman Landfill which is located entirely within unincorporated Orange County, just north of the City of Irvine. The landfill is permitted to accept up to 11,500 tons of solid waste per day, with a maximum annual average daily tonnage of 8,500 tons. The site has a current permitted closure date of 2053, although the available disposal capacity is projected to be 2075. FRB Landfill receives approximately 6,400 tons of waste daily with 4,900 tons from in-County and 1,500 through importation.

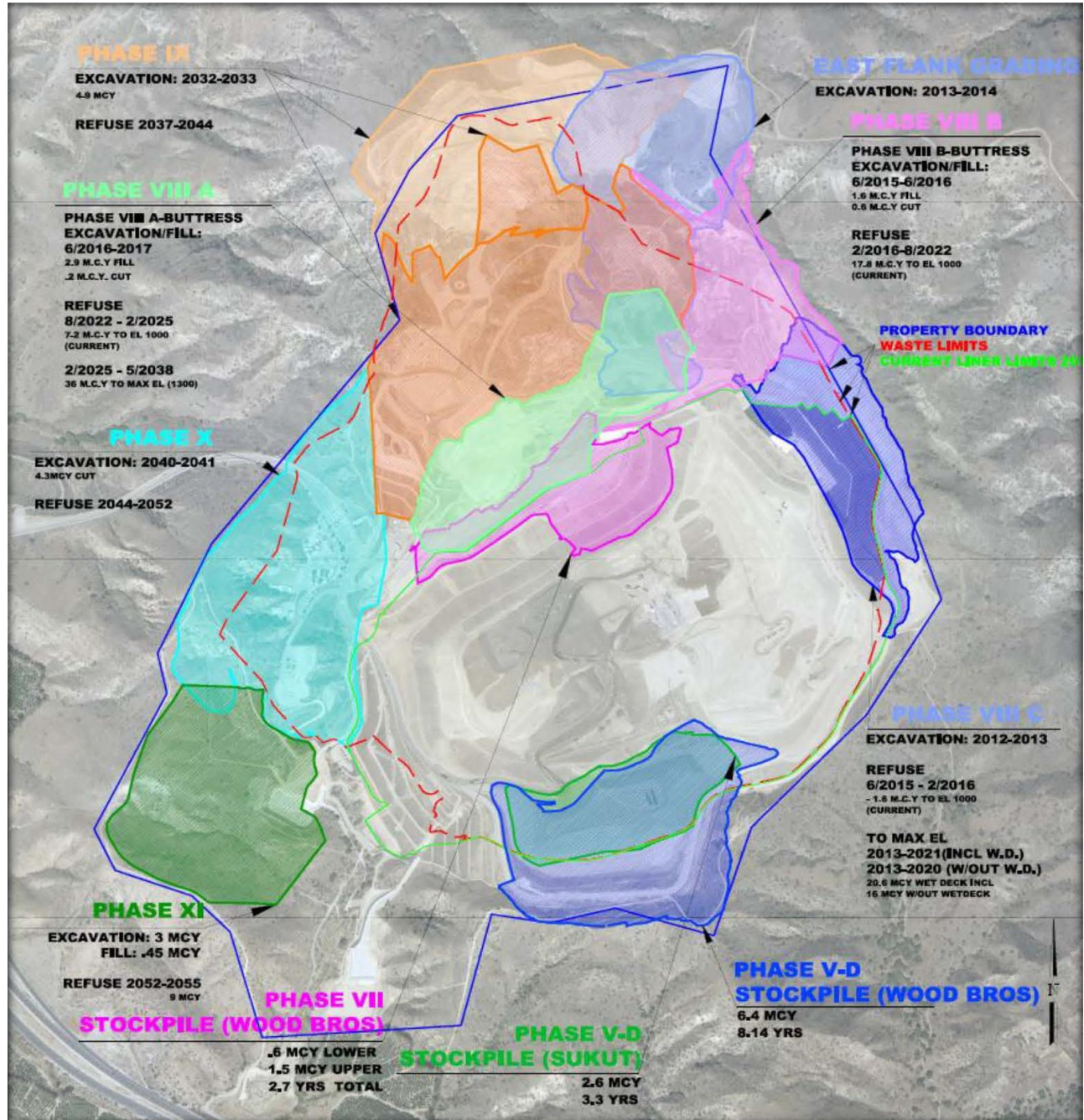
Facility Information:

Owner:	County of Orange, OC Waste & Recycling
Address:	11002 Bee Canyon Access Road, Irvine, CA 92618
Operating Days:	Monday through Saturday (307 days/year)
Operating Hours:	7:00 a.m. to 5:00 p.m.
SWFP No.	30-AB-0360
SWFP Issue Date:	09/22/2008
Last 5-year Review:	09/20/2013
Next 5-Year Review Due:	09/22/2018
Permitted Closure Date	2053
Capacity Closure Date:	2078
Available Airspace (6/30/2014)	190.1 million cubic yards
Available Capacity (6/30/2014)	117.6 million tons
Maximum Permitted Daily Capacity:	11,500 TPD
Maximum Average Annual Daily:	8,500 TPD
Cooperative Agreement/MOU	City of Irvine, 8/15/2006
Daily Waste Disposed	Average
In-County	4,903 tons
Imported	1,514 tons
Land Use/Conditional Use Permit:	Permit No: N/A
Waste Discharge Requirements:	R8-2010-0071
Permitted Waste Type:	Municipal Solid Waste, Class III Landfill
Future Land Use:	Open Space, Renewable Technologies
Additional information	Future Bowerman Power – 20MWh
Restrictions:	EIR based on achieving elevation of 1,350 AMSL

Frank R. Bowerman Landfill
Estimated Design & Construction Phasing Projects and Costs
FY 15/16 - FY 23/24

FISCAL YEAR	PHASING PROJECT	ESTIMATED COST
15/16	Phase VIII Design	\$500,000
15/16	Phase VIII B-1 Buttress & Liner Construction	\$12,000,000
16/17	Phase VIII B-1 Buttress & Liner Construction	\$3,000,000
16/17	Phase VIII B-2 Buttress & Liner Construction	\$10,000,000
17/18	Phase VIII B-2 Buttress & Liner Construction	\$10,000,000
18/19	Phase VIII A-1 Buttress & Liner Design	\$1,000,000
19/20	Phase VIII A-2 Buttress & Liner Design	\$1,000,000
20/21	Phase VIII A-1 Buttress & Liner Construction	\$10,000,000
21/22	Phase VIII A-1 Buttress & Liner Construction	\$10,000,000
22/23	Phase VIII A-2 Buttress & Liner Construction	\$10,000,000
23/24	Phase VIII A-2 Buttress & Liner Construction	\$10,000,000
TOTAL		\$77,500,000

Frank R. Bowerman Landfill - Phasing Map



Prima Deshecha Landfill

The South Region includes the active Prima Deshecha Landfill which is located within the unincorporated area of the County, the City of San Clemente, and the City of San Juan Capistrano. The site has a current permitted closure date of 2067. However, the closure date based on available capacity is projected to be 2101. The landfill is permitted to accept up to 4,000 tons of solid waste per day. However, Prima Deshecha Landfill is currently receiving approximately 1,300 tons per day with 1,200 from in-County and 65 through importation.

Zone 1 is permitted through 2019. OC Waste & Recycling intends to seek a permit extension to allow for the continuation of landfill operations through approximately mid-2040.

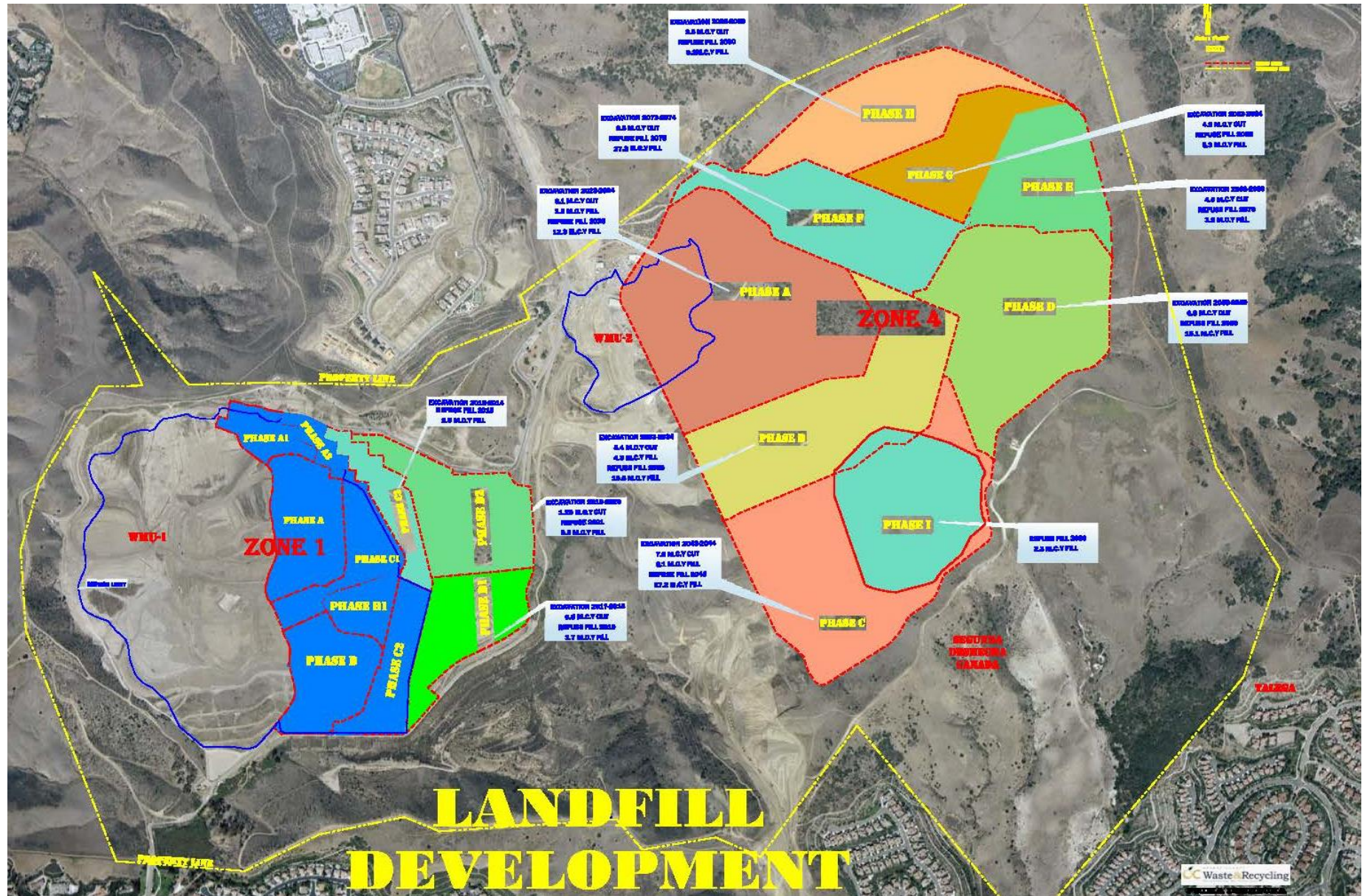
Facility Information:

Owner:	County of Orange, OC Waste & Recycling
Address:	Prima Deshecha Landfill 32250 La Pata Avenue San Juan Capistrano, CA 92675
Operating Days:	Monday through Saturday (307 days/year)
Operating Hours:	7:00 a.m. to 5:00 p.m.
SWFP No.	30-AB-0019
SWFP Issue Date:	11/8/2011
Last 5-year Review:	11/7/2011
Next 5-Year Review Due:	11/8/2016
Permitted Closure Date	Zone 1: 2019; Zone 4: 2067
Capacity Closure Date:	2101
Available Airspace (6/30/2014)	Zone 1: 20.5 million cubic yards Zone 4: 118.5 million cubic yards
Available Capacity (6/30/2014)	Zone 1: 11.5 million cubic yards Zone 4: 66.8 million cubic yards
Maximum Permitted Daily Capacity:	4,000 tons per day; 350 tons/day of digested dewatered bio-solids from POTWs
Maximum Average Annual Daily:	4,000 tons per day
MOU	4,000 tons per day
Daily Waste Disposed	Average
In-County	1,190 tons
Imported	65 tons
Land Use/Conditional Use Permit:	July 2001 (original 1995)
Waste Discharge Requirements:	R9-2003-0306
Permitted Waste Type:	Municipal Solid Waste, Class III Landfill
Future Land Use:	Open Space, Renewable Technologies
Additional information	CR&R MRF onsite
Restrictions:	EIR based on achieving elevation of Zone 1: 600; Zone 4:1010

Prima Deshecha Landfill
Estimated Design & Construction Phasing Projects and Costs
FY 15/16 - FY 23/24

FISCAL YEAR	PHASING PROJECT	ESTIMATED COST
14/15	Phase D1 & D2 Design	\$100,000
17/18	Zone 1 Phase D1 Mass Excavation	\$12,000,000
18/19	Phase A1 & A2 Design	\$2,500,000
19/20	Zone 4 Phase A1 Mass Excavation	\$20,000,000
21/22	Zone 1 Phase D2 Mass Excavation	\$12,000,000
25/26	Zone 4 Phase A2 Mass Excavation	\$15,000,000
TOTAL		\$77,6000,000

Prima Deshecha Landfill - Phasing Map





Agenda Item 7 – *Waste Management Commission Bylaws*

Chairman Chad P. Wanke requested discussion of the Waste Management Commission Bylaws with particular attention to Article IV—Membership, Section I—Representation on the Commission.

Recommended Action: None

Attachment A Waste Management Commission Bylaws

BYLAWS
ORANGE COUNTY WASTE MANAGEMENT COMMISSION

ARTICLE I

Legal Authority

The Orange County Waste Management Advisory Commission (Commission) was formed by the Orange County Board of Supervisors (Board), by Resolution 82-1100 dated July 13, 1982. On May 19, 1987, by Ordinance 3632, the name of the Commission was changed to Orange County Waste Management Commission and the Bylaws were amended. On February 13, 1990, by Resolution 90-212, the Board approved the designation of the Commission as the Local Task Force pursuant to Public Resources Code Section 40950; and appointed the Commissioners as members of the Local Task Force. The Bylaws were amended by Resolution 90-1097 dated August 14, 1990, to include the duties of the Local Task Force. The Bylaws were amended again on April 21, 1998, by Resolution 98-12 to revise the composition of the Commission and the method of appointment.

ARTICLE II

Purpose

The purpose of the Commission is to advise the Board on matters relating to the municipal solid waste and hazardous waste management, operation and maintenance of the County's Landfills, and other facilities related to the County's solid waste disposal system. OC Waste & Recycling (OCWR) shall provide staffing for the Commission.

ARTICLE III

Duties

The Commission shall meet on a regular basis to discuss and make recommendations to the Board and OC Waste & Recycling regarding management of the County's solid waste disposal system. The duties of the Commission are further outlined as follows:

1. Provide financial review and recommendations regarding the County's solid waste management system, including periodic review of tonnage disposed, capital improvements, importation of out-of-County waste, budgets, cash flows and financial reports.
2. Provide long-term landfill facility planning, including siting of future landfills, resource recovery facilities, and household hazardous waste management facilities; expansion of existing solid

Bylaws

Orange County Waste Management Commission

Approved by the Board of Supervisors on March 6, 2012

Page 1 of 6

waste facilities; and actions related to closure and post-closure monitoring and maintenance of the County's solid waste disposal facilities.

3. Provide policy oversight and periodic review of the Article 2, Division 3, Title 4 of the Codified Ordinances of the County of Orange Relating to Solid Waste Management including rules, regulations, standards, procedures and practices; and make recommendations to the Director, OC Waste & Recycling, as deemed necessary on matters pertaining to management of municipal solid waste and hazardous waste in Orange County.
4. Provide review and recommendations regarding the County's regional Household Hazardous Waste Collection Program.
5. Act as a forum for public input on issues related to the County's municipal solid waste management program.
6. Provide review and recommendations on other solid waste policy issues that may be referred to the Commission by the Board.

Acting as the Local Task Force, the Commission shall have the following additional duties:

1. Assist the County in coordinating the development of city source reduction and recycling elements, and prepare the countywide siting element of the Countywide Integrated Waste Management Plan.
2. Identify solid waste management issues of countywide or regional concern.
3. Determine the need for solid waste collection systems, processing facilities, and marketing strategies that can serve more than one local jurisdiction within the region.
4. Facilitate the development of multi-jurisdictional arrangements for the marketing of recyclable materials.
5. To the extent possible, facilitate resolution of conflicts and inconsistencies between or among city source reduction and recycling elements of the Countywide Integrated Waste Management Plan.
6. Develop goals, policies, and procedures which are consistent with guidelines and regulations adopted by the California Department of Resources Recycling and Recovery (CalRecycle), to guide the development of the sitting element of the Countywide Integrated Waste Management Plan.

ARTICLE IV

Membership

Section I—Representation on the Commission

The Commission shall be composed of eighteen members selected as follows:

- | | |
|---------------|---|
| Ten Members: | Two public members appointed by each Supervisor to a two-year term. Appointee must reside in Orange County, and may not be a representative of the waste industry. |
| Five Members: | Five city council members, one from a city located in each of the five Orange County Supervisorial Districts, appointed by the City Selection Committee for the County of Orange, California (the City Selection Committee) to a three-year term. |
| One Member: | The Chair of the City Selection Committee or any elected city official designee to a three-year term. |
| One Member: | A City Manager appointed by the City Selection Committee to a three-year term. |
| One Member: | The Director, OC Waste & Recycling, or his or her designee, shall be a nonvoting member of the Commission. |

Section II—Terms of Office

Members shall serve at the pleasure of their appointing authority. Terms of Mayors and City Council Members shall end concurrent with their elected city offices in the event that transpires prior to the end of their appointed terms.

Unless prohibited by law, all members shall continue to serve until a timely replacement can be made.

Section III—Voting Privileges

Except as otherwise provided, each voting member of the Commission shall be entitled to one vote on all issues presented at regular and special meetings at which the member is present.

Section IV—Committees of the Commission

The Commission may establish such ad hoc, standing, or technical advisory committees as needed to carry out the purpose of the Commission, and to provide input on solid waste management issues from various areas of expertise.

ARTICLE V**Meetings****Section I—Time of Meetings**

The Commission shall meet regularly, at least quarterly, at a time and place to be fixed by the Commission, and shall hold special meetings which, from time to time, shall be called by the Chair. Meetings shall be open to the public. Meetings shall be held in accordance with the Ralph M. Brown Act, Government Code Section 54950 et seq. (Brown Act).

Section II—Conduct of Meetings

- A. Nine Members constitute a quorum for the transaction of business at any meeting of the Commission. If fewer than nine members are present at a meeting, those members present may adjourn the meeting from time-to-time without further notice.
- B. The act of a majority of voting members present at a meeting of which a quorum is established shall be the act of the Commission.
- C. All meetings shall be conducted in accordance with the Brown Act and procedures adopted by the Commission.

Section III—Agendas (Per the Brown Act)

- A. Agendas for regular meetings shall be posted at least 72 hours prior to a meeting, in an area accessible to the public.
- B. Agenda item descriptions shall be sufficiently detailed so as to provide adequate public notice, but not to the extent of limiting Commission's options (examples: specific time frames and recommended actions).
- C. No discussion or action shall be taken on any item not appearing on the posted agenda.

- D. Notice of a closed session, and the legal reason justifying it, shall be published on the posted agenda in accordance with applicable law.

ARTICLE VI

Officers and Duties

Section I—Officers

The officers of the Commission shall be the Chair and Vice-Chair, to be elected annually at the last regular meeting of the calendar year.

Section II—Term of Office

The officers shall hold office for a period of one year, beginning at the first meeting of the year following the election of officers. No other officer shall succeed him-or-herself in office.

Section III—Duties

- A. The Chair shall preside at all meetings and is entitled to vote on all issues.
- B. The Vice-Chair shall preside in the absence of the Chair.
- C. In the event the Chair and Vice-Chair are both absent at a meeting for which a quorum is present; those members in attendance shall elect an ad hoc Chair for that meeting.
- D. The Chair may call special meetings of the Commission and may establish ad hoc committees as needed from time to time.

Section IV—Minutes and Maintenance of Records

The Clerk of the Commission shall be staffed by OC Waste & Recycling, and shall attend the meetings, keep minutes and be the custodian of the Commission records.

ARTICLE VII

Removal of Members

Voting Commission members shall serve at the pleasure of their appointing authorities and such authorities may remove their appointee at any time. Any vacant position shall be filled in the same manner as the original appointment.

Any member who fails to attend three consecutive regular meetings of the Waste Management Commission without previous notice or excuse shall automatically vacate his or her position.

ARTICLE VIII

Compensation

Each member of the Commission shall receive compensation as provided by Resolution of the Board of Supervisors for each Commission meeting attended not to exceed the number of meetings specified by such Resolution; provided, however, that the City Manager member, County employee members, or their designee shall not receive compensation.

ARTICLE IX

Amendments to the Bylaws

These Bylaws may be added to, amended, or repealed. Adoption of new or amended Bylaws, or repeal of Bylaws, shall be recommended to the Board of Supervisors by a majority vote of the members of the Commission at any regular or special meeting called for that purpose, at which a quorum is present. Written notice of such proposed amendments and nature thereof shall have been given to the membership of the Commission at least ten (10) days prior to the date of the meeting at which the amendment(s) is to be considered. All amendments to the Bylaws, after approval by the Commission, shall be effective only upon approval of the Board of Supervisors.



Agenda Item 8 – *Election of 2016 Chair and Vice Chair of the Waste Management Commission*

Bylaws of the Orange County Waste Management Commission, Article VI, Officers and Duties specify:

Section I - Officers

The officers of the Commission shall be the Chair and Vice-Chair, to be elected annually at the last regular meeting of the calendar year.

Section II—Term of Office

The officers shall hold office for a period of one year, beginning at the first meeting of the year following the election of officers. No other officer shall succeed him-or-herself in office.

Recommended Action: Elect the Chair and Vice-Chair for 2016.