



Environmental Commission November 14, 2016



Mission Trail Waste Systems Presentation

Presentation

- History
- State Laws
- Diversion Data
- Recycling Efforts

History

Mission Trail Waste System awarded contract commenced service October 2010

Contract previously held by Los Altos Garbage Company for 68 years

Current contract 10 year Term with City option to extend for 2 additional 3 year terms

State Laws

- AB 939 - Enacted 1989 –
 - 50 % Recycled by 2000
- AB 32 - Enacted 2006 -
 - GHG's reduced to 1990 levels by 2020
- AB 341 - Enacted 2012 – Mandatory Commercial Recycling –
 - Generators over 4 cy's week Solid Waste
 - 75 % Goal For Recycling State Wide
- AB 1826 - Enacted 2014 –
 - Organic Waste reduced by 50% by 2020
- AB 1383 – Enacted 2016 –
 - 50% reduction Short-lived Climate Pollutants –
 - Specified reduction in Organic Waste in Landfills

AB 939

Santa Clara County Cities Landfilled Lbs. per Person Day

30% increase in Diversion

2009		
	Target	Annual
Los Altos Hills	3.4	1
Monte Sereno	3.9	1.2
Saratoga	4.2	2.5
Cupertino	4.3	3.1
San Jose	5.2	3.1
Los Gatos	6	3.3
Sunnyvale	5	3.5
Los Altos	4.4	3.7
Santa Clara- Unincorporated	4	3.7
Campbell	5.2	3.8
Milpitas	6.3	3.9
Morgan Hill	6.1	4
Mountain View	7.8	4
Palo Alto	8.2	4.2
Gilroy	6.2	4.5
Santa Clara	8.2	6

2014		
	Target	Annual
Los Altos Hills	3.4	1.3
Monte Sereno	3.9	1.7
Los Altos	4.4	2.6
Saratoga	4.2	2.9
San Jose	5.2	3.1
Santa Clara- Unincorporated	4	3.3
Palo Alto	8.2	3.6
Sunnyvale	5	3.6
Mountain View	7.8	3.8
Los Gatos	6	3.9
Campbell	5.2	4.1
Gilroy	6.2	4.2
Milpitas	6.3	4.9
Morgan Hill	6.1	5.2
Santa Clara	8.2	6.1
Cupertino	4.3	6.4



AB 341

<u>> 4 Cubic Yards Solid Waste Week</u>		
<u>Total Customers</u>	<u>In Compliance</u>	<u>Non Compliance</u>
72	68	4
<u>Non Compliance</u>		
Safeway #2814		
L A Post Office		
AT&T Services, Inc		
Akane		

AB 1826

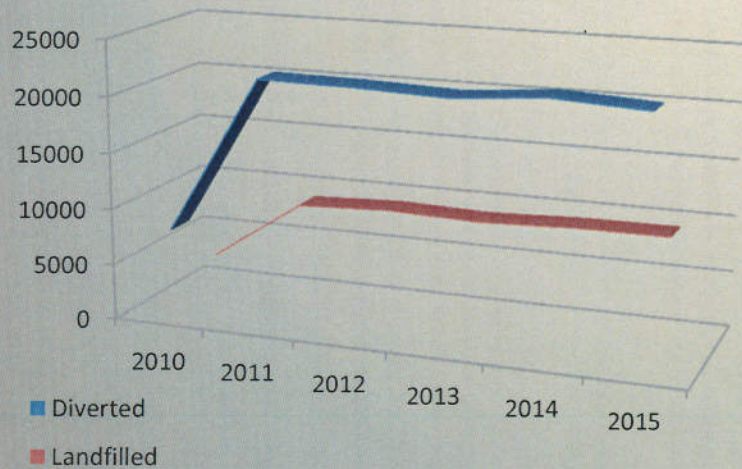
	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Landfilled	3,238	8,768	9,100	8,855	9,187	9,223
<u>Composted</u>	<u>5,135</u>	<u>13,773</u>	<u>13,833</u>	<u>13,708</u>	<u>13,530</u>	<u>13,038</u>
Total	8,373	22,541	22,933	22,563	22,717	22,261
	61%	61%	60%	61%	60%	59%

MTWS Diversion Requirements

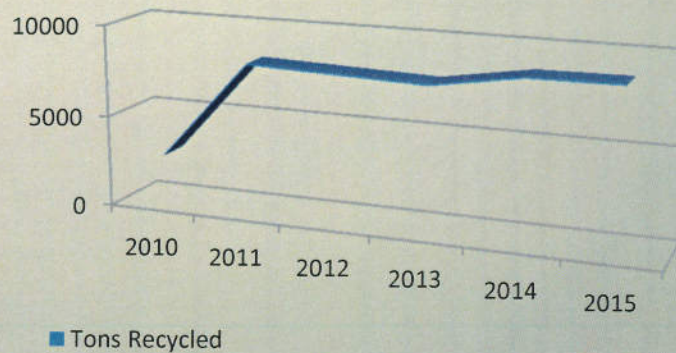
	<u>Minimum Diversion Rate</u>	<u>Diversion Rate Achieved</u>	<u>Tons Generated</u>	<u>Tons Diverted</u>	<u>Minimum Diverted Tons</u>	<u>Variance</u>	<u>% Variance</u>	<u>Non MTWS Systems Tons Landfilled</u>	<u>Total City Generated</u>	<u>Non MTWS % Tons</u>
December 31,2011	62%	71.4%	30,706	21,937	19,037	2,900		4,559	35,265	13%
December 31,2012	69%	70.6%	30,949	21,849	21,355	494	2%	4,391	35,339	12%
December 31,2013	78%	70.9%	30,429	21,574	23,734	(2,160)	-9%	5,197	35,626	15%
December 31,2014	78%	70.7%	31,389	22,202	24,484	(2,281)	-9%	5,305	36,694	14%
December 31,2015	78%	70.2%	30,987	21,764	24,170	(2,406)	-10%	6,212	37,199	17%
Good Faith efforts put forth in implementing the required programs to meet the minimum diversion requirements and level of effort to fully implement the work plans										

MTWS Diversion Trends

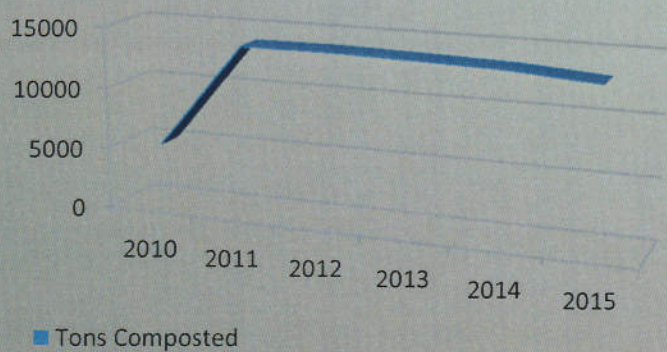
Tons Diverted



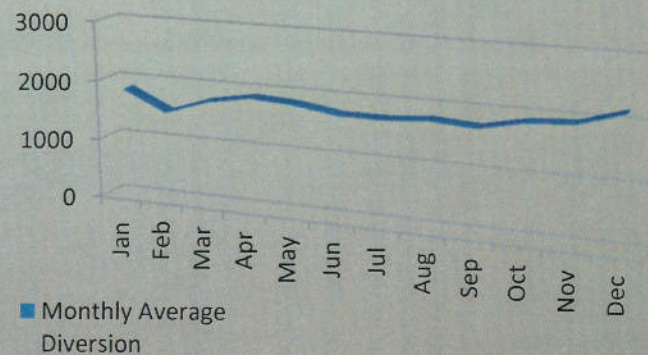
Tons Recycled



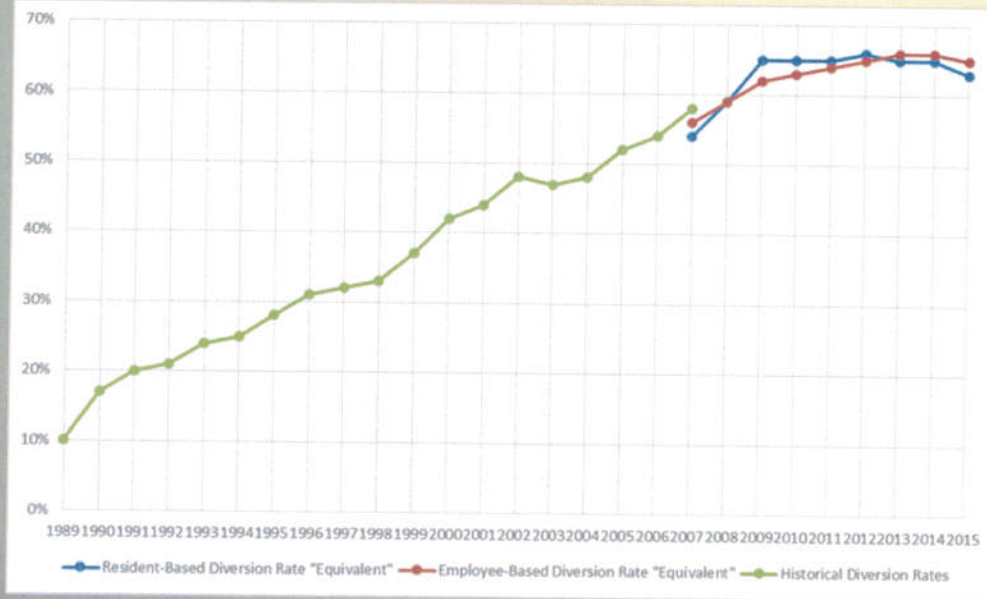
Tons Composted



Monthly Average Diversion

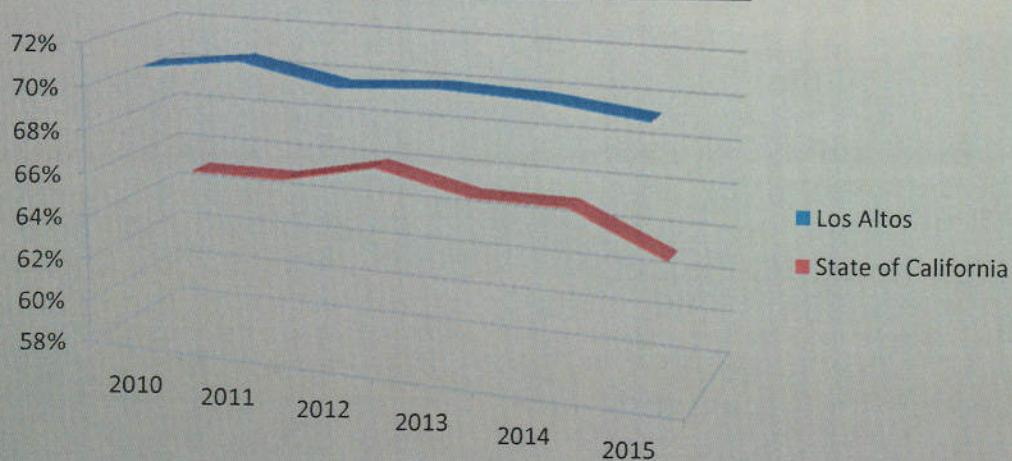


This graph shows historical statewide estimated diversion rates for California. 1989 through 2007 diversion rates are calculated using the Adjustment Method (old system). 2007 and later diversion rate equivalents are from the new Per Capita Disposal and Goal Measurement system.



Year	Historical Diversion Rates	Resident-Based Diversion Rate Equivalent	Employee-Based Diversion Rate Equivalent
1989	10%		
1990	17%		
1991	20%		
1992	21%		
1993	24%		
1994	25%		
1995	28%		
1996	31%		
1997	32%		
1998	33%		
1999	37%		
2000	42%		
2001	44%		
2002	48%		
2003	47%		
2004	48%		
2005	52%		
2006	54%		
2007	58%		
2008		54%	56%
2009		59%	59%
2010		65%	62%
2011		65%	63%
2012		65%	64%
2013		66%	65%
2014		66%	66%
2015		63%	65%

Diversion Comparison



Factors Affecting Diversion Efforts

- Leakage of Construction Waste from MTWS System
- Change in Operation by Grocery Stores with Handling Their Waste Streams
- Commercial Establishments without space for Recycling Containers
- Multi-Family Complexes without space for Recycling Containers
- Home Owners Associations , Management Companies ,
 Not allowing Full Utilization of Recycling Options for Individual Generators on Site
- Drought Conditions , Change in Landscape , Reduced Vegetation Generated for Diversion

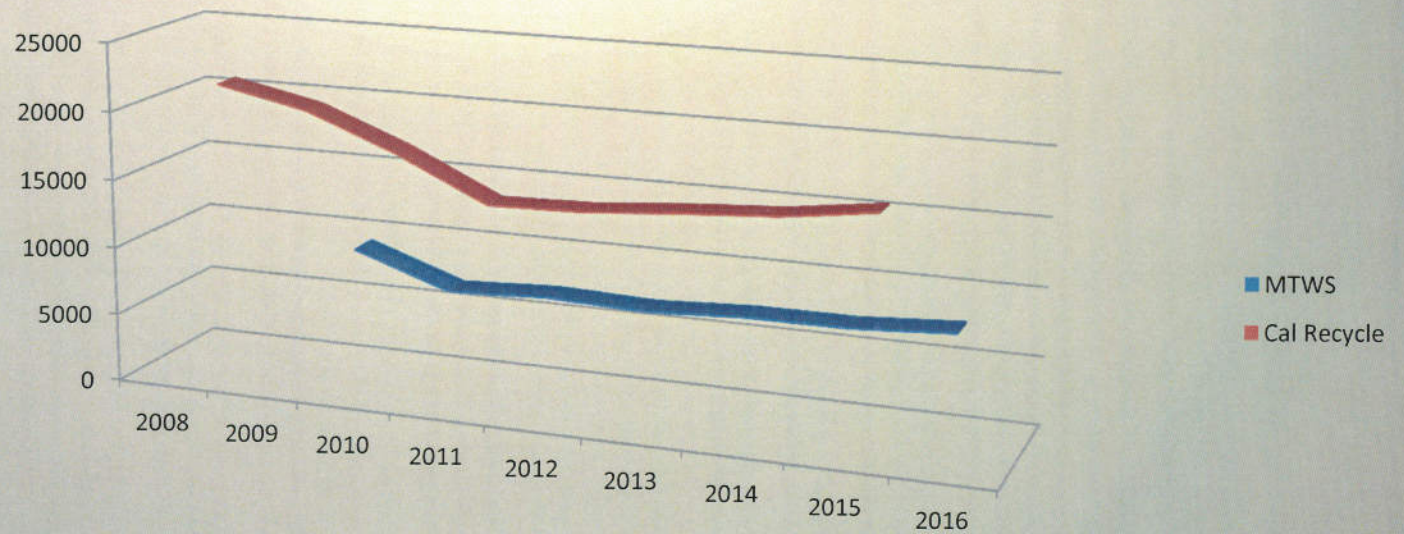
Diversion Capacity Customer Subscription Levels

Los Altos Customers										
Cubic Yards Week Capacity										
Type	Count		Solid Waste	Recycling	Organic's		Landfill	Diversion	Total	% Capacity for Diversion
Single Family	9,389		1,663	4469	4902.4		1,663	9,371	11,035	85%
Commercial Bin	336		979	1063.8	264.16		336	1327.96	1,664	80%
Multi-Family	123		312	265	58.72		312	323.72	635	51%

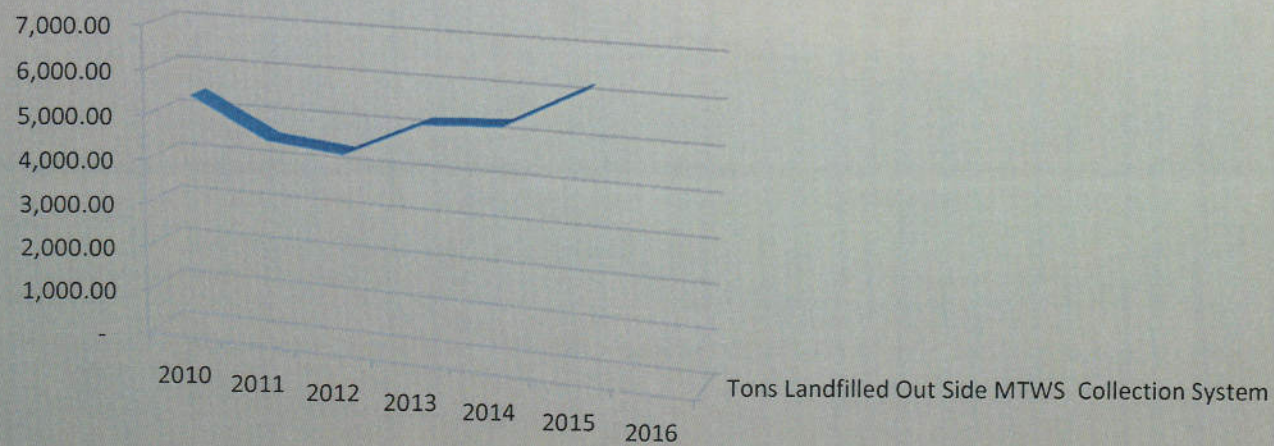
All Recycling Services Provided at No Charge to Customers

All Customers Can Reduce Their Disposal Costs by Recycling

Los Altos Total Tons Landfilled



Tons Landfilled Outside MTWS Collection System



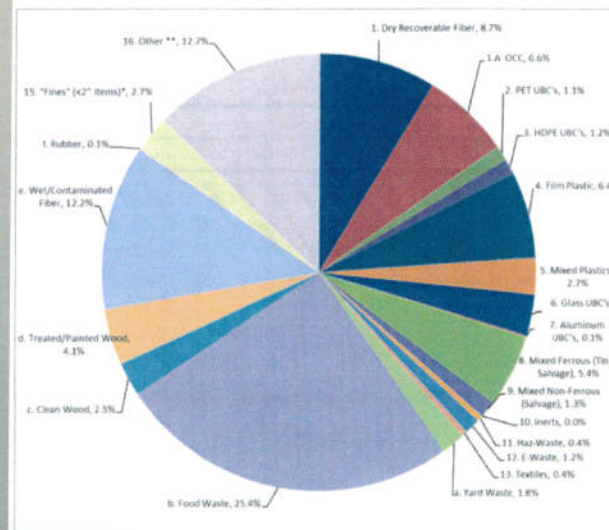
Waste Composition Of Commercial Landfilled Loads

Source	Cubic Yard	% of Total
City	152	13%
COM	977	82%
MFF	68	5%
	1,197	100%

Annual Tons	City	Commercial	Multi Family
4,682	609	3,839	2,341

Sample Date	Total Weight (lbs)
1 10/11/16	196.3
2 10/11/16	166.8
3 10/11/16	208.4
4 10/11/16	241.6
5 10/11/16	249
6 10/12/16	254.8
7 10/12/16	219.4
8 10/12/16	222
9 10/12/16	141
10 10/12/16	244.8
11 10/12/16	214.2
12 10/13/16	160.4
13 10/13/16	190.4
14 10/13/16	237.4
15 10/13/16	134.6
TOTAL	3,081.10

Figure 1: Summary of Results



Material	% Identified	Sub Total
Foodwaste	25.4%	
Yardwaste	1.8%	27.2%
Dry Fiber	8.7%	
OCC	6.6%	15.3%
PET	1.1%	
HDPE	1.2%	
Mixed Plastic	2.7%	5.0%
Glass	3.1%	3.1%
Aluminum	1.0%	
Ferrous Metal	5.4%	
Non-Ferrous Metal	1.3%	7.7%
	58.3%	58%

Total Tons	% identified	100%	% Achievable		
4,682	58%	2,730	75%	50%	25%
			2,047	1,365	682

Next Steps

- Enforcement of City's new C & D Ordinances
- Reporting of Self-Hauling by generators
- Backend processing of Commercial MSW loads
- Need additional City Ordinances with regard to enforcement of mandatory recycling.

Questions