



## **Alameda County Source Reduction and Recycling Board**

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## **"5-Year Audit" Program Assessment Member Agency Program Summaries**

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**HF&H Consultants, LLC**

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**Kies Strategies  
Skumatz Economic Research Associates  
Environmental Planning Consultants**



*Revised - January 2008*



**City of Alameda**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D "Five Year Audit" (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency's website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the Island City of Alameda (Alameda) are listed below.

- Residential organics collection including food scraps for single-family and multi-family customers began in 2003.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Alameda County Industries (ACI) is the exclusive service provider for residential solid waste, recycling, and organics collection; commercial solid waste collection; and drop box solid waste collection.
- Alameda's franchise agreement with ACI began in October 2002 and expires in September 2012.
- Commercial recycling service is provided on a limited non-exclusive basis, primarily by ACI (the exclusive franchisee).
- Construction and demolition debris collection is provided under permit by multiple companies.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Alameda include Waste Management’s Davis Street Transfer Station in San Leandro (DSTS) for franchised solid waste, ACI’s Direct Transfer Facility in San Leandro (Aladdin Ave.) for recyclables processing, Allied Waste’s Newby Island Sanitary Landfill in Milpitas (Newby Island) for organics processing, and Waste Management’s Altamont Landfill near Livermore (Altamont) for disposal.

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	11,831	0	11,831	16%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	22,483	0	22,483	30%
Self-Haul and Other	0	39,938	39,938	54%
<b>Total</b>	<b>34,314</b>	<b>39,938</b>	<b>74,252</b>	<b>100%</b>

\*Alameda’s multi-family tonnage is included with the commercial tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	19,377	93%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	1,376	7%
Self-Haul and Other	0	0%
<b>Total</b>	<b>20,753</b>	<b>100%</b>

\*Alameda’s multi-family tonnage is included with the commercial tonnage.

## Demographics

Alameda had an estimated population of 74,405 in 2006. There are approximately 32,212 households in Alameda (17,122 single-family, 14,790 multi-family, and 300 mobile homes). The median household income in 2005 was \$65,758. Alameda has approximately 1,924 business establishments and in 2005 had taxable sales of approximately \$536 million. Alameda’s 10.7

square miles are located along the western portion of Alameda County, adjacent to the City of Oakland.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

ACI provides solid waste collection services for Alameda residents. Solid waste collection service in Alameda is mandatory for residents. The minimum charge for solid waste service is \$16.52 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by ACI. Backyard and side yard service is available to elderly or disabled residents at no additional monthly charge. Customers may purchase a pre-paid sticker for \$4.99 for collection of an extra 32-gallon (or smaller) bag. Figure 3 illustrates the rates for each container size. Fully-automated trucks are used for collection.

In 2006, 11,831 tons of solid waste, approximately 0.9 pounds per person per day, were collected from single-family customers in Alameda. The residential solid waste is transferred at the DSTS and then disposed of at Altamont.

**Figure 3: Residential Container Sizes and Rates**

Cart Size	Rate
20-gallon	\$16.52
32-gallon	\$26.01
64-gallon	\$43.41
96-gallon	\$60.64

#### *Multi-Family*

Alameda’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers are allowed to select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

### Residential Recycling

#### *Single-Family*

ACI provides weekly, single-stream recycling collection on the same day as solid waste collection. ACI collects the following recyclables: all plastic (#1 - 7); metal cans; glass bottles and jars; aluminum foil (clean); aluminum pans (clean); milk and juice cartons (aseptic containers); scrap metal (small, unusable bakeware/cookware/appliances); newspaper; mixed paper; empty aerosol cans; and, cardboard.

ACI uses fully-automated trucks for recycling collection. Customers have unlimited recycling collection service as long as materials fit into company-provided carts. Recyclables are taken directly to Aladdin Ave. for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 12,424 tons of recyclables, approximately 0.9 pounds per person per day, were collected through the single-family residential recycling program.

### *Multi-Family*

Alameda's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers are allowed to select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with either the single-family tonnage, when the building is serviced with carts, or with the commercial tonnage, when the complex is serviced with bins.

## **Residential Organics**

### *Single-Family*

ACI provides weekly organics collection service on the same day as solid waste collection. ACI collects the following organics: food scraps; plant debris; food-soiled paper; meat; bone; and, dairy.

ACI uses fully-automated trucks for collection. 32-, 64-, and 96-gallon carts are provided by ACI. Additional carts are available in cases of consistent overflow. Organics are taken directly to Newby Island for composting. The cost of organics collection service is included in the residential rates.

In 2006, 6,953 tons of organic materials, approximately 0.5 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family*

Alameda's multi-family organics collection program includes all of the same features as the single-family organics collection program. Multi-family customers may to select containers that are comparable to those provided in the commercial organics program. Multi-family tonnage is reported with either the single-family tonnage, when the building is serviced with carts, or with the commercial tonnage, when the complex is serviced with bins.

## **Commercial Programs**

### **Commercial Solid Waste**

ACI provides commercial and drop box solid waste collection service to Alameda through an exclusive franchise agreement. Customers can choose from: 20-, 32-, 64-, and 96-gallon carts; 1-

through 7- cubic yard bins; and, 10-, 15-, 20-, 30-, 40-, and 50-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. ACI uses a mix of semi- and fully-automated trucks for collection.

Commercial customers may not self-haul materials. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$17.04/month
Per cubic yard	\$98.35 – \$103.40/month
Drop box per cubic yard	\$39.58/pull

Solid waste is transferred at the DSTS and disposed of at Altamont. In 2006, 22,483 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is provided on a limited non-exclusive basis, and primarily by ACI. All businesses must subscribe to a minimum level of service. ACI utilizes collection containers and vehicles similar to those provided in the commercial solid waste program. Recyclables collected by ACI are consistent with those accepted in the residential recycling program.

ACI takes recyclables directly to Aladdin Ave. for processing. Other transfer stations and recyclables processing facilities are used by other collection companies. In 2006, 815 tons of recyclables were collected by ACI through their commercial program. Tons associated with collection by other commercial recycling collection companies are not reported to Alameda.

City ordinance provides a limited exemption for self-haul of recyclable materials by the owner or occupant, or by an independent contractor that provides the service incidental to its primary service “such as landscaping or construction”.

**Commercial Organics**

ACI provides commercial organics collection service to Alameda through an exclusive franchise agreement. Customers may choose from: 32-, 64-, and 96- gallon carts and 1- through 7-cubic yard bins. ACI uses a mix of semi- and fully-automated trucks for collection. Organics accepted include: plant debris; food-soiled paper; meat; bone; and, dairy.

Organics are transferred at the DSTS and composted at Newby Island. In 2006, 561 tons of organics were collected through the commercial organics program.

## **Construction and Demolition Debris Program**

Collection of construction and demolition debris (C&D debris) collection service is regulated by a permit issued by Alameda. The permitted service providers include ACI, Waste Management of Alameda County (WMAC), Sonrise Construction, and Heim Brothers.

Processing facilities used vary by service provider. In 2006, 3,121 tons were diverted through the C&D debris recycling program.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The monthly Antique Fair at Alameda Point is the only event in Alameda that meets the requirements of an AB 2176 event; however, the vendors have been uncooperative to date with the City staff.

### **Bulky Item Collection**

Alameda sponsors up to two on-call curbside collections per year for single-family residents. The cost of this program is included in the residential solid waste rates. Materials accepted through this program include household furniture, appliances, mattresses, metal, wood, televisions, monitors, and e-scrap. A two-cubic yard bin is provided to residents for one week. On the next regular date of collection, the bin and up to three bulky items are collected. Solid waste collected through this program is taken to Aladdin Ave. for processing and recovery. Approximately 574 tons of recyclables were diverted through this program in 2006.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

Alameda does not operate any buyback or drop-off facilities. Residents and businesses in Alameda can use either Aladdin Ave or the DSTS.

### **E-Waste, Universal Waste, and/or Used Motor Oil Collection**

Alameda has an exclusive agreement with ACI to collect E-waste, Universal waste, and used motor oil and filters from residents and businesses. This program is funded through solid waste rates.

### **Household Hazardous Wastes**

Alameda does not provide household hazardous waste collection programs in addition to those available through the County.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **Member Agency Facility Programs**

ACI provides exclusive solid waste and recycling collection services to public facilities. The cost of this program is included in the residential and commercial solid waste rates. This program was implemented in 2002.

## **School Programs**

WMAC provides solid waste, recycling, and organics collection to Alameda schools. This program is paid for by the school district. The types and quantities of materials collected are not reported to Alameda.

## **Seasonal Programs**

Pumpkins may go in the organics carts. Holiday trees that are not flocked can be placed at the curb for collection or in one of the extra drop boxes during the entire month of January.

## **Used Tires**

Alameda currently has no program in place for collection of used tires.

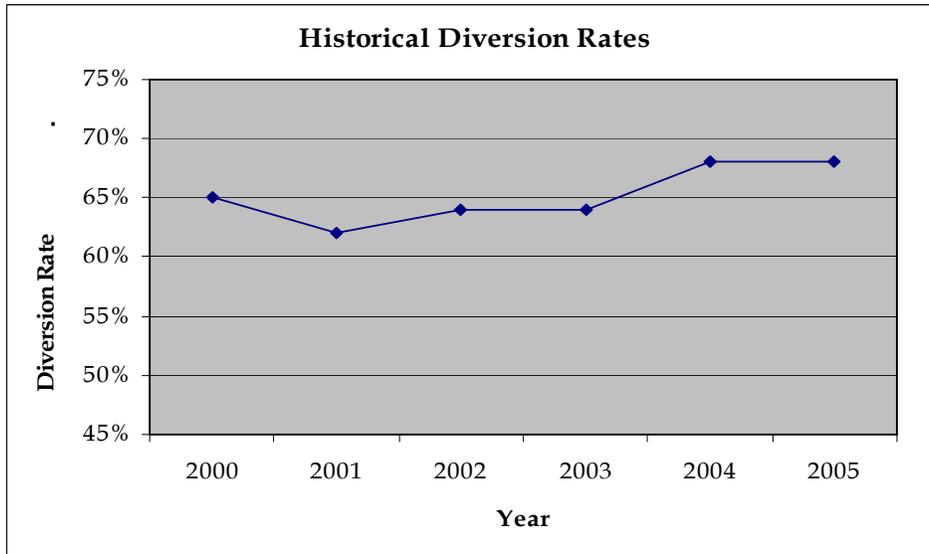
## **White Goods Pick-up**

White goods are collected by ACI through the on-call bulky-item pick-ups. In 2006, 3,116 units of white goods were collected from this program.

## **AB 939 Compliance Status**

Alameda's most current diversion rate, as approved by the State, is 68%. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City Staff.

Figure 6: Sustainability Programs/Policies

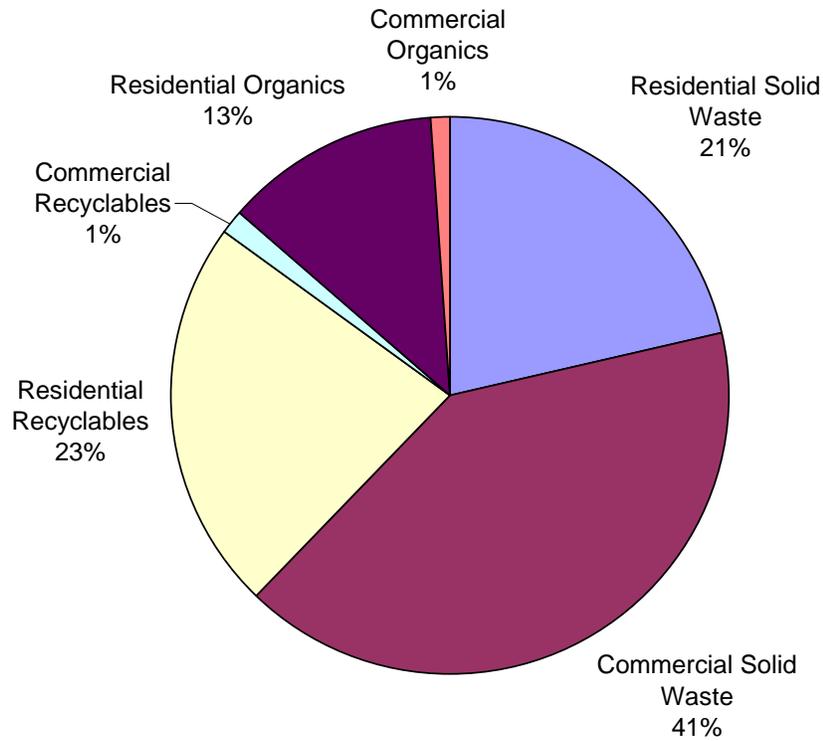
Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	No	No
Environmentally Preferable Purchasing	No	
Civic Green Building	No	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan		Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	No	
Other Sustainability Programs	No	
Zero Waste Resolutions / Plans	No	

### Future Planning and Programming Needs

Alameda is committed to reaching the 75% diversion goal specified in Measure D. However, City staff have not identified any barriers to achieving this goal and have no specific program enhancements planned to achieve it.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Alameda and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Albany**  
**Alameda County Source Reduction and Recycling Board**  
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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Albany (Albany) are listed below.

- Residential and commercial organics collection has included food scraps since 2004.
- Single-stream collection of recyclables.
- 10-gallon garbage micro-can for low-volume residential generators.
- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential and commercial solid waste, recycling, and organics collection; drop box solid waste collection; and construction and demolition debris (C&D debris) collection.
- Albany’s franchise agreement with WMAC began in March 2004 and expires in April 2011.
- Facilities used by Albany include Waste Management’s Davis Street Transfer Station in San Leandro (DSTS), Waste Management’s Altamont Landfill near Livermore

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

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(Altamont), Z-Best Composting Facility in Gilroy (Z-Best), and the Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	2,638	0	2,638	29%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	4,000	0	4,000	44%
Self-Haul and Other	0	2,551	2,551	28%
<b>Total</b>	<b>6,638</b>	<b>2,551</b>	<b>9,189</b>	<b>100%</b>

\* Albany's multi-family tonnage is included with the single-family tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	4,780	61%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	3,003	39%
Self-Haul and Other	0	0%
<b>Total</b>	<b>7,783</b>	<b>100%</b>

\* Albany's multi-family tonnage is included with the single-family tonnage.

## Demographics

Albany had an estimated population of 16,680 in 2006. There are approximately 7,325 households in Albany (3,981 single-family, 3,338 multi-family, and 6 mobile homes). The median household income in 2005 was \$54,919. Albany has approximately 510 business establishments and, in 2005, had taxable sales of approximately \$176 million. Albany’s 1.5 square miles are located along the northernmost region of Alameda County, adjacent to the City of Berkeley.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for Albany residents. Solid waste service in Albany is mandatory for residents. The minimum charge for solid waste service is \$10.49 per month for a 10-gallon micro-can. 10-gallon cans and 20-, 35-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to all residents for an additional fee. Additional solid waste (one 35-gallon equivalent) and prepaid bags are collected on regular service days for an additional fee of \$4.58 each. Customers may purchase these extra solid waste bags at local fire stations or through WMAC. The fee for additional service on a day other than a regular service day is \$19.91 per 35-gallon equivalent. Figure 3 illustrates the rates for each container size. Semi-automated trucks are used for collection.

In 2006, 2,638 tons of solid waste, approximately 0.9 pounds per person per day, were collected from residential customers. The residential solid waste from Albany is transferred at the DSTS and disposed of at Altamont.

**Figure 3: Residential Container Sizes and Rates**

Can Size	Rate
Micro-can (10-gallon)	\$10.49/month
20-gallon cart	\$20.97/month
35-gallon cart	\$23.47/month
64-gallon cart	\$40.58/month
96-gallon cart	\$57.69/month

#### *Multi-Family*

Albany’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that

are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Recycling**

### *Single-Family*

WMAC provides weekly, single-stream recycling collection on the same day as solid waste collection. WMAC collects the following recyclable materials: newspaper; mixed paper; chipboard; cardboard; paper milk cartons (aseptic containers); glass containers of any color; aluminum; small pieces of scrap metal less than 10 lbs. and fitting in the cart; steel tin or bi-metal cans; and, plastics (#1 - 7). WMAC provides weekly curbside collection of used motor oil and filters in company-provided containers. Household batteries are accepted at Albany's City Hall.

WMAC uses semi-automated trucks for recycling collection. 35-, 64-, and 96-gallon carts are provided by WMAC. Recyclables are taken directly to the DSTS for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 3,041 tons of recyclables, approximately 1.0 pounds per person per day, were collected through the residential recycling program.

### *Multi-Family*

Albany's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers are allowed to select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: food scraps; plant debris; vegetables; fruit; food-soiled paper; meat; and, bones. The program excludes dairy and pet waste.

35-, 64-, and 96-gallon carts are provided by WMAC. All organics must be placed inside the wheeled carts. Organic materials are transferred at the DSTS and then composted at Grover. The cost of organics collection service is included in the residential rates.

In 2006, 1,739 tons of organic materials, approximately 0.6 pounds per person per day, were collected through the single-family and multi-family residential organics program.

## *Multi-Family*

Albany's multi-family organics collection program includes all of the same features as the single-family organics collection program. Multi-family customers (3 or more units) may receive weekly 64-gallon cart service for an additional \$4.26 per month.

## **Commercial Programs**

### **Commercial Solid Waste**

WMAC provides commercial and drop box solid waste collection service to Albany through an exclusive franchise agreement. Customers can choose from: 35-, 64-, or 96-gallon carts; 1- through 7- cubic yard bins; and, 6- through 50-cubic yard drop boxes and compactors. Collection is provided up to six days per week for solid waste. WMAC uses a mix of fully-automated and semi-automated trucks for collection.

Commercial customers may not self-haul materials. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
96-gallon cart	\$59.61/month
Per cubic yard	\$93.57/month
Drop box per cubic yard	\$394.84/pull

Solid waste is transferred at the DSTS and disposed of at Altamont. In 2006, 4,000 tons of solid waste were collected through the commercial and drop box program.

### **Commercial Recycling**

WMAC provides commercial recycling collection service to Albany through an exclusive franchise agreement. Customers can choose from: 35-, 64-, or 96-gallon carts; 1- through 7-cubic yard bins; and, 1- through 7-cubic yard compactors for recycling collection. WMAC uses a mix of semi- and fully-automated trucks for collection. Recyclables collected in the commercial program are consistent with those in the residential recycling program. The cost of recycling collection service is included in the commercial rates.

Commercial recyclables are taken directly to the DSTS for processing. In 2006, 927 tons of recyclables were collected from commercial customers and 1,630 tons were collected from industrial customers through this program.

## **Commercial Organics**

WMAC provides commercial organics collection service to Albany through an exclusive franchise agreement. Customers can choose from 35-, 64-, and 96-gallon carts and 1- through 7-cubic yard bins. Commercial organics service includes plant debris and food scraps.

Commercial organics collection is provided at a 50% discount relative to solid waste rates for comparable service levels.

Organics are transferred at the DSTS and composted at Z-Best. In 2006, 547 tons of organics were collected through the commercial organics program.

## **Construction and Demolition Debris Program**

WMAC provides construction and demolition debris (C&D debris) collection services to Albany under an exclusive franchise agreement.

C&D debris is taken directly to the DSTS for processing. Approximately 50% of the C&D debris collected is recycled. In 2006, 130 tons were collected through the C&D debris program.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The Solano Avenue Association organizes the waste diversion activities with WMAC for the annual Solano Stroll event, which is held in both Albany and Berkeley. Albany is currently in the planning process for diversion activities at other events and/or venues.

### **Bulky Item Collection**

Albany sponsors one, on-call curbside pick-up per year for single-family residents. The cost of this service is included in the residential solid waste rates. Materials accepted through this program include household furniture, carpet, small appliances, major appliances (no more than two), solid waste, painted wood, doors, and non-hazardous items. Materials diverted through this program include appliances, tires, CRT's, mattresses, box springs, and plant debris.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

There are currently no buyback or drop-off facilities in Albany.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

WMAC provides weekly curbside collection of used motor oil and filters. A one-day E-waste drop-off event is organized by WMAC each year. The collection program is funded through the customer rates. WMAC is compensated for processing the E-waste on a per-ton basis. In 2006, the E-waste drop-off event served 548 households and diverted 16 tons of E-waste.

## **Household Hazardous Wastes**

Household batteries are accepted at Albany's City Hall. In 2006, approximately 350 households utilized this drop-off location.

## **Member Agency Facility Programs**

WMAC provides free solid waste and recycling collection to public facilities. This program is funded through the customer rates. Albany plans to include organics (with food scraps) collection service at city facilities in the future.

## **School Programs**

WMAC provides exclusive recycling services to Albany schools. Albany plans to increase the recycling and organics services at schools in the future.

## **Seasonal Programs**

Holiday trees are collected curbside between December 26 and the end of January, on the same day as regular collection service. Trees may be collected on the curb or inside the organics carts.

## **Used Tires**

Tires are diverted through the annual on-call pick-up. Customers may set out up to four tires per household. The cost for this program is included in the residential rates.

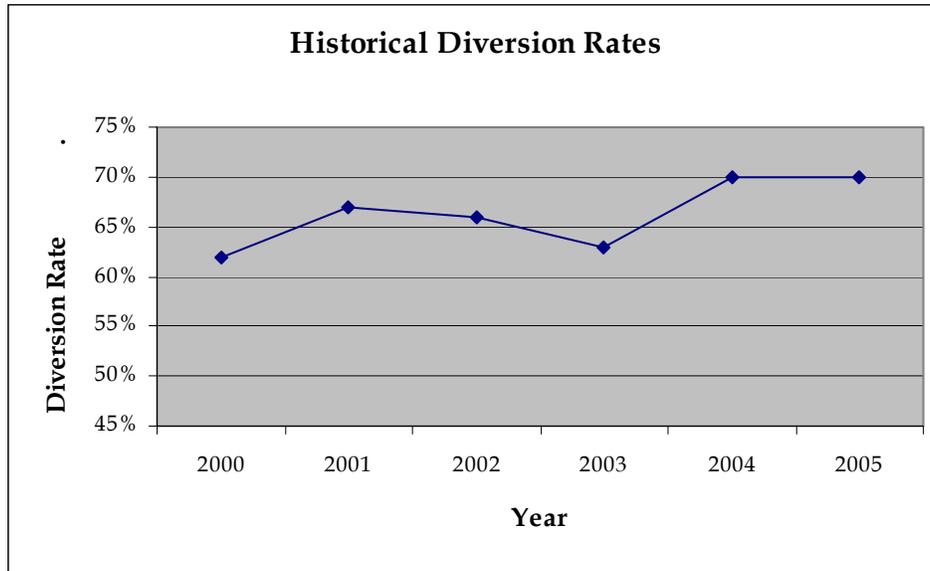
## **White Goods Pick-up**

Large appliances are included in the annual on-call pick-up program. The cost for this program is included in the residential rates.

## **AB 939 Compliance Status**

Albany's most current diversion rate, as approved by the state, is 70%. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. The most significant change occurred in 2004 with the implementation of residential and commercial single-stream recycling and the inclusion of food scraps in organics collection. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

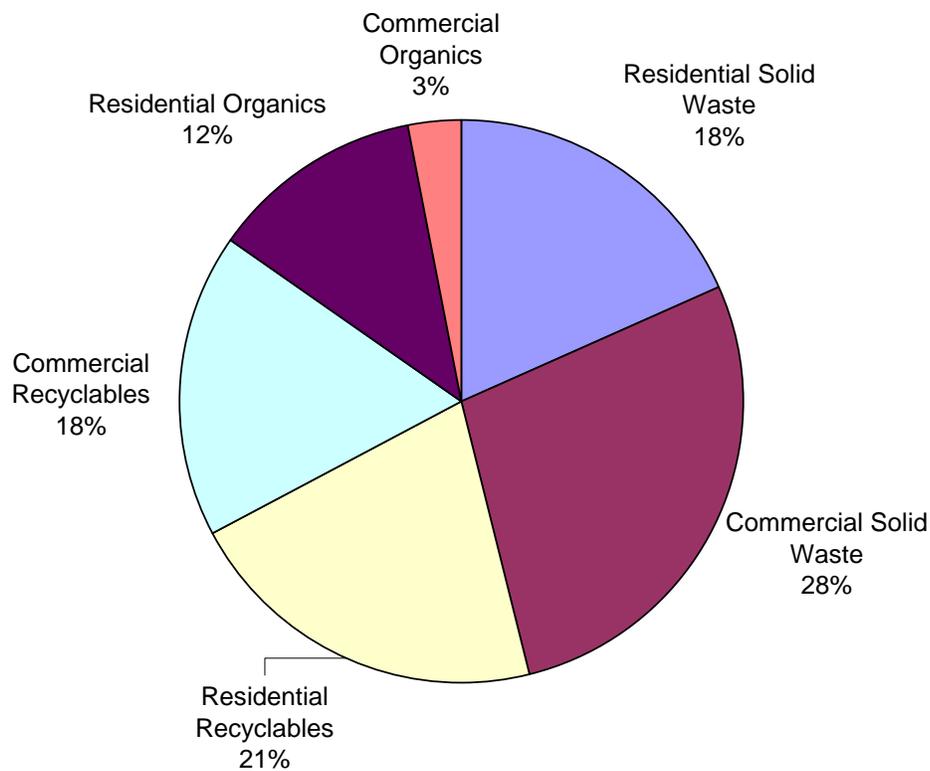
Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	Yes	
Environmentally Preferable Purchasing	Yes	
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	No	Yes
Other Sustainability Programs	No	Yes
Zero Waste Resolutions / Plans	No	Yes

**Future Planning and Programming Needs**

Albany is committed to reaching the 75% diversion goal specified in Measure D. Future plans include continuing the current programs offered to residential and commercial customers; increasing the promotion of these services; and, implementing C&D debris and green building ordinances. Other future plans include the improvement of C&D debris recycling programs and the expansion of recycling services provided to schools and large businesses. Albany perceives reaching new sectors as the largest barrier to reaching 75% diversion.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Albany and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Berkeley**  
**Alameda County Source Reduction and Recycling Board**  
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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Berkeley (Berkeley) are listed below.

- Residential organics collection expanded during 2007 to include food scraps for single-family dwellings.
- Dual-stream collection of recyclables.
- 13-gallon garbage micro-can for low volume residential generators.
- Berkeley performs municipal residential and commercial solid waste and organics collection and drop box solid waste and recycling services, except that commercial dry waste is also collected by other service providers under non-exclusive franchise.
- The Ecology Center performs residential recycling collection and is under contract with the City until July 2008.
- Commercial recycling collection is provided in a non-exclusive, franchised system by the City of Berkeley, Bay View Refuse Services, Biagini Waste Reduction Systems, Richmond Sanitary Service, US Eagle, Waste Management of Alameda County, and Golden Gate Disposal.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Berkeley include the Berkeley Transfer Station in Berkeley (BTS) for franchised solid waste and organics, Community Conservation Center in Berkeley (CCC) for residential recyclables, Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover) for organics processing, and Republic Services’ Vasco Road Landfill near Livermore (Vasco Road) for disposal.
- Urban Ore and City staff promote diversion at the BTS.

**Figure1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	17,888	0	17,888	16%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	24,350	0	24,350	22%
Self-Haul and Other**	0	70,512***	70,512	62%
<b>Total</b>	<b>42,238</b>	<b>70,512</b>	<b>112,750</b>	<b>100%</b>

\*Berkeley’s multi-family tonnage is included with single-family tonnage. Complexes with 10+ units are reported as commercial.  
 \*\* Self-haul and Other tonnage includes self-haul tonnage delivered to the BTS.  
 \*\*\* Self-haul tonnage includes approximately 5,000 tons per year collected by the University of California at Berkeley. As a state institution, the University is not bound by the franchise.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	17,019	68%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	8,197	32%
Self-Haul and Other	0	0%
<b>Total</b>	<b>25,216</b>	<b>100%</b>

\* Berkeley’s multi-family tonnage is included with single-family tonnage. Complexes with 10+ units are reported as commercial.

## Demographics

Berkeley had an estimated population of 105,385 in 2006. There are approximately 47,648 households in Berkeley (21,909 single-family, 25,680 multi-family, and 59 mobile homes). The median household income in 2005 was \$48,123. Berkeley has approximately 4,270 business establishments and in 2005 had taxable sales of approximately \$1.3 billion. Berkeley’s 15 square miles are located in northwest Alameda County adjacent to Oakland, Emeryville, and Albany.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

The City of Berkeley provides solid waste collection services for Berkeley residents. Solid waste collection service in Berkeley is mandatory for residents. Berkeley has three separate solid waste collection districts with different rates for each. The minimum charge for solid waste service is \$9.00, \$9.19, or \$9.75 per month for a 13-gallon mini-can depending on which district the customer is in. 13-, 20-, 32-, 45-, 64-, and 96-gallon carts are provided by Berkeley. Backyard and side yard service is available to elderly or disabled residents at an additional charge of \$3.85 per month per container. Extra solid waste collection service is provided at established rates for each container size. Customers may also purchase pre-paid extra service bags for \$4.75 per bag. Extra solid waste is set out in carts or prepaid bags on regular collection days. Figure 3 illustrates the rates for each container size in each district. Semi-automated trucks are used for collection.

In 2006, 17,888 tons of solid waste, approximately 0.9 pounds per person per day, were collected from single-family and multi-family dwellings in Berkeley. The residential solid waste is transferred at the BTS and then disposed of at Vasco Road.

**Figure 3: Residential Container Sizes and Rates**

Cart Size	District 1 Rate	District 2 Rate	District 3 Rate
13-gallon	\$9.00	\$9.19	\$9.75
20-gallon	\$13.85	\$14.12	\$14.96
32-gallon	\$22.11	\$22.58	\$24.00
45-gallon	\$31.10	\$31.75	\$33.76
64-gallon	\$44.24	\$45.14	\$48.02
96-gallon	\$66.36	\$67.69	\$72.00

#### *Multi-Family*

Berkeley’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program for customers with less than ten units. Multi-

family customers with ten or more units may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage for less than ten units is reported with residential tonnage. Customers with more than ten units have tonnage reported with the commercial tonnage.

## **Residential Recycling**

### *Single-Family*

The Ecology Center performs weekly dual-stream recycling collection on the same day as solid waste collection. The Ecology Center collects the following recyclables: paper; cardboard; commingled glass bottles and jars; #1 and #2 plastic bottles and jugs; steel; tin; aluminum cans; foil; and, pie plates.

The Ecology Center uses manual-loading trucks for recycling collection. Containers are 18-gallon tubs provided by the Ecology Center. Recyclables are taken directly to the Community Conservation Center for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 8,330 tons of recyclable materials, approximately 0.4 pounds per person per day, were collected through the single-family residential recycling program.

### *Multi-Family*

Berkeley's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers with ten or more units are allowed to select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage for less than ten units is reported with residential tonnage. Customers with more than ten units have tonnage reported with the commercial tonnage.

## **Residential Organics**

### *Single-Family*

Berkeley provides bi-weekly organics collection service on the same day as solid waste collection. Berkeley collects the following organics: plant debris and unpainted wood scraps. Food scraps collection began in September 2007 with weekly collection of organics.

Berkeley uses semi-automated trucks for collection. 32-, 64-, or 96-gallon carts are provided by the City. Organics must fit into the provided cart with the lid closed or the materials must be cut into no more than five foot lengths and bundled with a pre-paid collection tag. Organics are transferred at the BTS and then composted at Grover. The cost of organics collection service is included in the residential rates.

In 2006, 8,689 tons of organics, approximately 0.5 pounds per person per day, were collected through the single-family residential organics program.

*Multi-Family*

Organics collection service is not offered to multi-family customers in Berkeley at this time.

**Commercial Programs**

**Commercial Solid Waste**

Berkeley provides commercial and drop box collection services through the municipal collection operation. The City is the sole provider for collection of putrescible materials, while a number of service providers collect dry waste under non-exclusive franchise, including the City. Rates for this service are not regulated. Customers can choose from: 13-, 32-, 45-, 64-, and 96-gallon carts; 1- through 6- cubic yard bins; and, 6- through 30-cubic yard drop boxes. Collection is provided up to six days per week for solid waste in bins and up to seven days per week in carts. Berkeley uses semi-automated trucks for collection.

Commercial customers may self-haul materials to the BTS, but all properties must have some level of solid waste collection service. Commercial rates for carts and bins follow a uniform rate structure with a frequency surcharge and a monthly bin rental charge. Drop box rates are regressive with a frequency surcharge and a monthly bin rental charge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
Carts	Same as residential rates
Per cubic yard	\$99.33 - \$117.64/month
Drop box per cubic yard	\$90.83 - \$145.11/month

Solid waste is transferred at the BTS and disposed of at Vasco Road. In 2006, 24,350 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is not regulated in Berkeley, and several companies provide commercial recycling collection including the City of Berkeley, Bay View Refuse Services, Biagini Waste Reduction Systems, Richmond Sanitary Service, US Eagle, WMAC, and Golden Gate Disposal. Materials collected include: paper; cardboard; glass bottles; and, aluminum cans.

Berkeley provides free recycling to commercial customers with the costs for this service included in the commercial solid waste rates.

Berkeley takes recyclables directly to the Community Conservation Center for processing. Other transfer stations and recyclables processing facilities vary depending upon the collection company. In 2006, Berkeley collected 3,574 tons of recyclables through the commercial recycling

program. Tons associated with collection by other commercial recycling collection companies are not reported to Berkeley.

## **Commercial Organics**

Berkeley provides commercial organics collection service through their municipal collection operation. Customers may choose from: 64-gallon carts and 1- through 4-cubic yard bins. Collection of organics is available up to six days per week and twice per day if needed. Organics currently collected include: food scraps; kitchen papers; waxed cardboard; unpainted untreated small wood; and, plant debris. Berkeley uses semi-automated trucks for collection.

Commercial organics collection is provided at a 20% discount relative to solid waste rates for comparable service levels.

Organics are transferred at the BTS and composted at Grover. In 2006, 4,623 tons of organics were collected through the commercial organics program.

## **Construction and Demolition Debris Program**

Berkeley, Bay View Refuse Services, Biagini Waste Reduction Systems, Richmond Sanitary Service, US Eagle, WMAC, and Golden Gate Disposal provide non-exclusive construction and demolition debris (C&D debris) collection services under franchise agreement with the City of Berkeley.

The facilities used vary by service provider. The City does not track tonnage specific to this program.

## **Other Recycling Programs**

### **AB 2176 Programs – Special Events and Large Venues**

The Solano Stroll and Earth Day are the only events/venues which are reported to the California Integrated Waste Management Board. Berkeley supplies event organizers with “clear stream” recycling containers as well as planning advice and, occasionally, staffing. In the future, Berkeley plans to improve permit requirements and procedures for recycling at events and venues as well as making recycling a condition of park reservations.

### **Bulky Item Collection**

Berkeley provides one on-call curbside pick-up per year for single-family customers. The cost of the program is included in the customer rates. Non-recyclable materials accepted include: garbage; rugs; painted wood, plywood, or composition board; small appliances; sinks and toilets; sofas; and, box springs. Materials recycled through the program include: plant debris; organics, scrap metal, mattresses, and reusable goods.

## **Buyback/Drop-Off Facilities<sup>4</sup>**

Berkeley operates a buyback/drop-off operation at the Berkeley Transfer Station.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

The Community Conservation Center accepts Universal waste dropped off by the public. Alameda County Computer Resource Center accepts E-waste and batteries from the public and will collect those materials from residents on an appointment basis.

There are eight used motor oil and filter drop-off locations in Berkeley, including the BTS.

## **Household Hazardous Wastes**

Berkeley currently has a grant for the Toxics Department to collect HHW from seniors and others who cannot drive to a County HHW drop-off site. Berkeley plans to expand the BTS to include an HHW and Universal waste recycling/reuse facility.

## **Member Agency Facility Programs**

Berkeley provides solid waste and recycling collection services to public facilities. The cost of this program is paid for with customer rates and with grant money from the Department of Conservation. In 2006 this program collected 6,706 tons.

## **School Programs**

The City of Berkeley provides solid waste, recycling, and organics collection to Berkeley schools. Other collection companies are allowed to provide service to schools in the district; however, most schools are serviced by the City of Berkeley. The collection services at schools in Berkeley are funded through residential and commercial customer rates.

Berkeley is currently working with the schools to have management of the recycling program taken over by the schools.

## **Seasonal Programs**

Holiday trees are collected at no additional cost to customers on regular collection days in January. Trees must be cut to five-foot lengths for curbside collection. Trees can also be taken to the BTS during January for free drop-off.

## **Used Tires**

Berkeley residents are able to drop their used tires off at the BTS for a fee.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

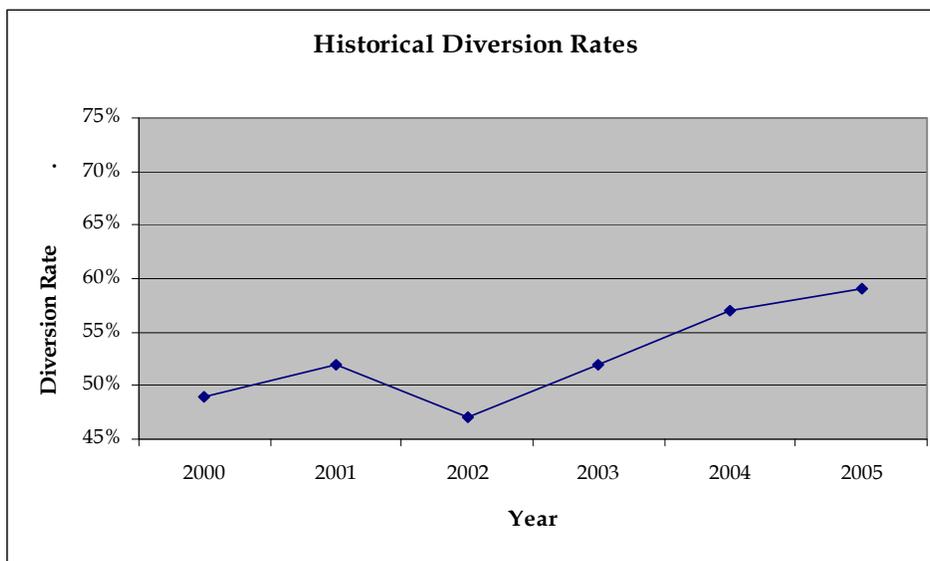
**White Goods Pick-up**

The City provides information to collection customers about options for collection and disposal of large white goods. Residents can recycle these items at the Berkeley Recycling Center or at the BTS for a fee.

**AB 939 Compliance Status**

Berkeley’s most current diversion rate is 59%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

**Figure 5: CIWMB Diversion Rates from 2000 to 2005**



**Sustainability**

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	No	
Environmentally Preferable Purchasing	Yes	
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	Yes	
Other Sustainability Programs	Yes	
Zero Waste Resolutions / Plans	Yes	

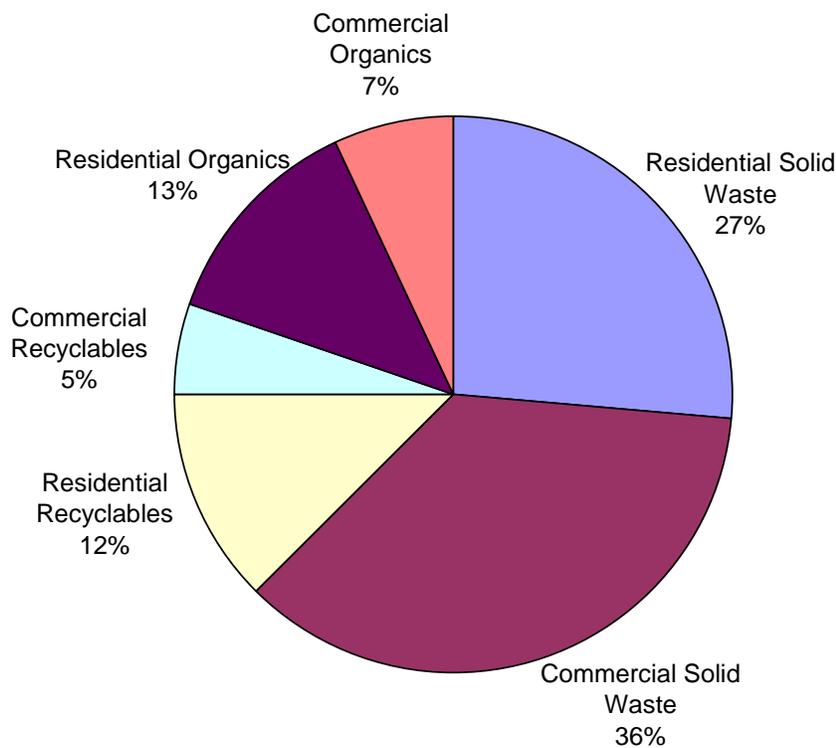
**Future Planning and Programming Needs**

Berkeley is committed to reaching the 75% diversion goal specified in Measure D. City staff report that Berkeley plans to implement the following programs to achieve this target:

- Weekly residential organics collection;
- Dual-stream cart collection of curbside recyclables to improve capture rates;
- Multi-family recycling ordinance;
- Increase commercial organics and recyclables participation;
- Improve waste reduction;
- Rebuild the BTS to capture more materials; and,
- Enforce and increase targets for C&D debris recycling ordinance.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Berkeley and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Dublin**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## Summary

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The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Dublin (Dublin) are listed below.

- Residential organics collection including food scraps for single-family customers began in 2005.
- Single-stream collection of recyclables.
- 35-gallon garbage cart for low-volume residential generators.
- Amador Valley Industries (AVI) is the exclusive service provider for residential and commercial solid waste, recycling, organics collection, and drop box collection.
- Dublin’s franchise agreement with AVI began in July 2005 and expires in June 2012.
- Construction and demolition debris collection is provided on a non-exclusive franchise basis by multiple companies.
- Facilities used by Dublin include Alameda County Industries’ Recycling Facility in San Leandro (Aladdin Ave.), Waste Management’s Altamont Landfill near Livermore

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

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(Altamont), Allied Waste’s Newby Island Compost Facility in Milpitas (Newby Island), and Pleasanton Garbage Services’ Pleasanton Transfer Station in Pleasanton (PTS).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	8,791	0	8,791	23%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	13,902	0	13,902	36%
Self-Haul and Other	0	15,792	15,792	41%
<b>Total</b>	<b>22,693</b>	<b>15,792</b>	<b>38,485</b>	<b>100%</b>

\*Dublin’s multi-family tonnage is included with commercial tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	8,456	80%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	2,081	20%
Self-Haul and Other	0	0%
<b>Total</b>	<b>10,537</b>	<b>100%</b>

\*Dublin’s multi-family tonnage is included with commercial tonnage.

## Demographics

Dublin had an estimated population of 41,907 in 2006. There are approximately 14,322 households in Dublin (9,155 single-family, 5,139 multi-family, and 28 mobile homes). The median household income in 2000 was \$77,283. Dublin has 857 business establishments and, in

2005, had taxable sales of approximately \$1.3 billion. Dublin’s 8.6 square miles are located in eastern Alameda County, adjacent to the Cities of Pleasanton and Livermore.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

AVI provides solid waste collection services for Dublin residents. Solid waste service in Dublin is mandatory for residents. The minimum charge for solid waste service is \$12.84 per month for standard 35-gallon carts. 35-, 64-, and 96-gallon carts are provided by AVI. Backyard and side yard service is available to elderly or disabled residents at no additional cost. Additional carts are provided upon request, and the customer is charged at the same rate as the first cart based on the size requested. Figure 3 illustrates the cost for each cart size. Fully-automated trucks are used for collection.

In 2006, 8,791 tons of solid waste, approximately 1.1 pounds per person per day, were collected from single-family dwellings in Dublin. Solid waste is disposed of at Altamont.

**Figure 3: Container Sizes and Rates**

Cart Size	Rate
35-gallon	\$12.84
64-gallon	\$23.58
96-gallon	\$34.33

#### *Multi-Family*

Dublin’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

### Residential Recycling

#### *Single-Family*

AVI provides weekly, single-stream recycling collection on the same day as solid waste collection. AVI collects the following recyclables: aluminum; tin; glass; plastics (#1 - 7); paper; cardboard; wood; metal; aerosol cans (empty, non-toxic products); used motor oil and filters (in company-provided containers); and, household batteries (in sealed plastic bags).

AVI uses fully-automated trucks for recycling collection with 35-, 64-, and 96-gallon carts. Customers are allowed a maximum set-out volume of 192 gallons, the equivalent of two 96-

gallon carts, of recyclable materials. Recyclables are transferred at PTS and then processed at Aladdin Ave. The cost of recycling collection service is included in the residential rates.

In 2006, 4,469 tons of recyclables, approximately 0.6 pounds per person per day, were collected through the single-family residential recycling program.

### *Multi-Family*

Dublin's multi-family recycling collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with the commercial tonnage.

## **Residential Organics**

### *Single-Family*

AVI provides weekly organics service on the same day as solid waste collection. AVI collects the following organics: vegetables; fruit; food-soiled paper; stable matter (i.e., manure or other waste accumulated in a stable or a similar enclosure); pruning; palm; yucca; cactus; grass clippings; leaves; weeds; branches; brush; and, other forms of vegetative waste. The program excludes anything over three feet in length or six inches in diameter.

AVI uses fully-automated trucks for recycling collection. 64- or 96-gallon carts are provided by AVI. Organics are transferred at PTS and then composted at Newby Island. The cost of organics collection service is included in the residential rates.

In 2006, 3,987 tons of organics, approximately 0.5 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family*

Multi-family customers currently do not have access to the residential organics collection program.

## **Commercial Programs**

### **Commercial Solid Waste**

AVI provides commercial and drop box solid waste collection service to Dublin through an exclusive franchise agreement. Customers can choose from: 35-, 64-, and 96-gallon carts; 1- through 7- cubic yard bins; 2- through 4-cubic yard compactors; and, 6-, 15-, 30-, and 40-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. Fully-automated trucks are used for collection of all containers.

Commercial customers may not self-haul solid waste. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
35-gallon cart	\$12.84/month
Per cubic yard	\$54.96 - \$66.36/month
Drop box per cubic yard	\$16.51/pull

Solid waste is disposed of at Altamont. In 2006, 13,902 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

AVI provides commercial recycling service to Dublin through an exclusive franchise agreement. Customers can choose from 35-, 64-, and 96-gallon containers and 1- through 7-yard bins. AVI uses fully-automated trucks for collection. Recyclables collected in the commercial program are consistent with those in the residential recycling program with the exception of used motor oil and filters, which are not collected from commercial customers.

Commercial customers may source separate and self-haul recyclables with no restrictions. The cost of recycling collection service is included in the commercial rates.

Commercial recyclable materials are transferred from PTS and processed at Aladdin Ave. In 2006, 1,454 tons of recyclables were collected through the commercial program.

**Commercial Organics**

AVI provides commercial organics collection service to Dublin through an exclusive franchise agreement. Customers can receive service up to twice per week and can choose from: 32-, 64-, and 96-gallon carts; 1- through 4-cubic yard bins; and, 9-, 15-, 20-, 30-, and 40-cubic yard drop boxes. Organics collected are consistent with those collected under the residential organics program.

Commercial organics collection is provided at a 25% discount relative to solid waste rates for comparable service levels. Dublin plans to increase that discount to 50%. The funding for the discounted rate is provided through the City’s share of Measure D monies.

Organics are transferred at PTS and composted at Newby Island. In 2006, 626 tons of organics were collected through the commercial organics program.

## **Construction and Demolition Debris Program**

AVI provides limited, non-exclusive construction and demolition debris (C&D debris) collection services. Several other companies provide C&D debris recycling collection services in Dublin under non-exclusive franchise agreements. These companies include Green Waste Recovery, Sonrise Consolidated, Arthur Young Debris Removal, Waste Management, Allied Waste, Premier Recycle, and Bay Area Hauling and Maintenance.

Facilities used for processing and disposal of C&D debris vary by service provider. In 2006, 15,643 tons of C&D debris materials were collected through this program, with a recovery rate of 94%.

## **Other Recycling Programs**

### **AB 2176 Programs – Special Events and Large Venues**

AVI provides solid waste and recycling collection at three events in Dublin that may qualify as AB 2176 events, including the Saint Patrick Day's event and Day on the Glen. AVI also provides collection services at a third event that is chosen each year by Dublin.

### **Bulky Item Collection**

Dublin sponsors an on-call, curbside pick-up program, with up to three on-call pick-ups provided to each single-family customer per year. The cost of this event is included in the rates. Materials diverted through this program include appliances, tires, cathode ray tubes (CRTs), E-waste and organic materials. In 2006, approximately 595 tons of recyclable materials were diverted through this program.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

A Re-Planet buyback center is located in Dublin. The center is not owned or operated by Dublin.

### **E-Waste, Universal Waste, and/or Used Oil Collection**

AVI provides curbside collection of used motor oil and filters for residential customers. E-waste is collected by AVI through the on-call bulky-item clean-up program.

### **Household Hazardous Wastes**

Household batteries and used motor oil and filters are collected curbside by AVI through the residential recycling program. Dublin sponsors an annual household hazardous waste drop-off

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

event for all its residents. Materials accepted at the drop-off event include household cleaners, paint, varnish, stain, thinner and adhesive; auto products such as old fuel, motor oil, oil filters and batteries; household batteries; cleaners and sprays; and garden products, including pesticides and fertilizers. Phillips Service Corporation (PSC) is subcontracted to provide the collection services for this event, and the costs are funded through the customer rates.

## **Member Agency Facility Programs**

AVI provides solid waste, recycling, organics, and large-item collection services to public facilities at no additional cost.

## **School Programs**

AVI provides exclusive solid waste and recycling collection services to Dublin schools.

## **Seasonal Programs**

Between December 26 and the end of January, Holiday trees are collected curbside on the customer's regular collection day. Alternatively, trees can be dropped-off in one of the three temporary drop boxes in Dublin from December 26 until the third Monday in January.

## **Used Tires**

Used tires are collected and diverted through the on-call, bulky item clean-up program. The costs for this program are included in the customer rates.

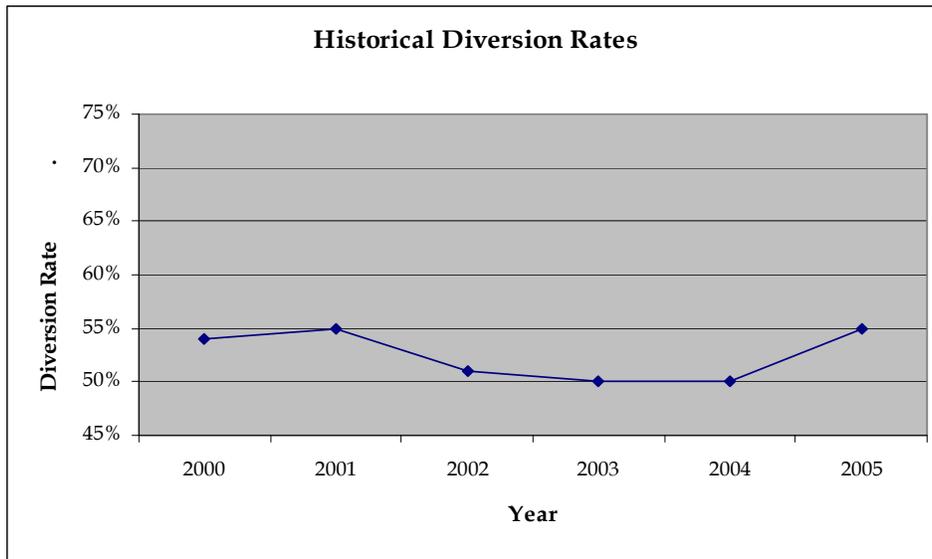
## **White Goods Pick-up**

Large appliances are included in the on-call, bulky-item pick-up program. The costs for this program are included in the customer rates.

## **AB 939 Compliance Status**

Dublin's most current diversion rate, as approved by the State, is 55%. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening*	No	
Environmentally Preferable Purchasing	Yes	
Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	No	Yes
Climate Action Plan	No	No
Other Comprehensive Green House Gas/ Climate Change Efforts	No	No
Other Sustainability Programs	No	No
Zero Waste Resolutions / Plans	No	No

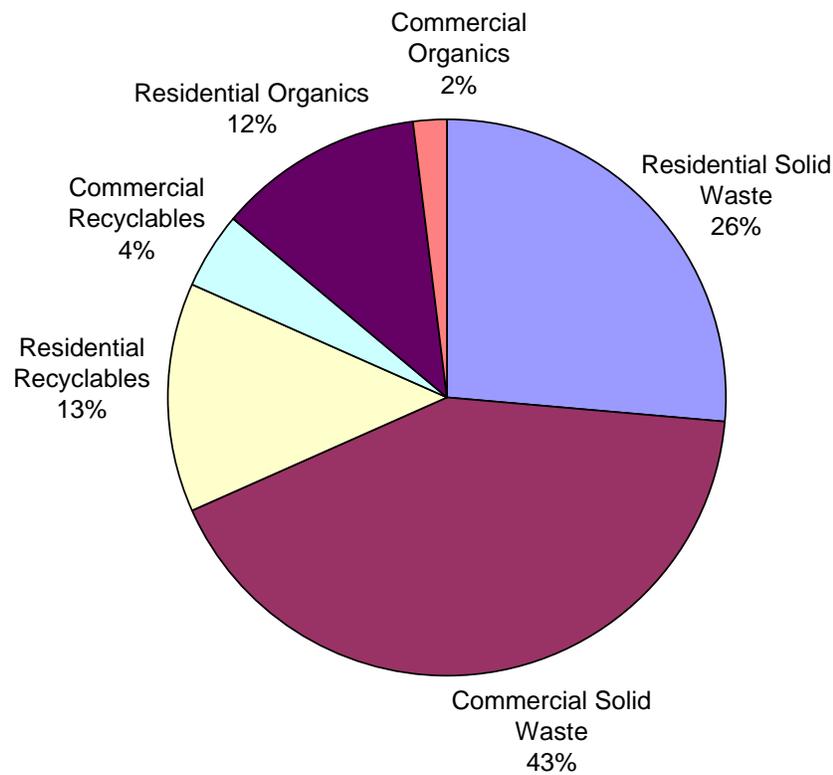
\*The City has implemented Bay-friendly practices but the Council has not adopted a formal policy.

### **Future Planning and Programming Needs**

Dublin is committed to reaching the 75% diversion goal specified in Measure D.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in the City and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Emeryville**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Emeryville (Emeryville) are listed below.

- Residential organics collection has included food scraps for single-family customers since 2005 and for multi-family customers since 2006.
- Single-stream collection of recyclables.
- 10-gallon garbage micro-can for low volume residential generators.
- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential solid waste, recycling, and organics collection; commercial solid waste collection; and drop box solid waste collection.
- WMAC’s franchise agreement with Emeryville began in 2005 and expires in December, 2010.
- Commercial recycling and organics collection is provided in an open-market by multiple companies.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Emeryville include Waste Management’s Davis Street Transfer Station in San Leandro (DSTS), Waste Management’s Altamont Landfill near Livermore (Altamont), Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover), and Z-Best Composting Facility in Gilroy (Z-Best). Norcal provides commercial organics collection and uses its Jepson Prairie Organics facility for processing.

**Figure1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	682	0	682	2%
Residential Multi-Family	2,983	0	2,983	8%
Commercial and Debris Box	6,129	0	6,129	15%
Self-Haul and Other*	0	29,813	29,813	75%
<b>Total</b>	<b>9,794</b>	<b>29,813</b>	<b>39,607</b>	<b>100%</b>

\*Emeryville’s self-haul tonnage is included with commercial tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	862	22%
Residential Multi-Family	654	17%
Commercial and Debris Box	2,344	61%
Self-Haul and Other*	N/A	
<b>Total</b>	<b>3,860</b>	<b>100%</b>

\*Emeryville’s self-haul tonnage is included with commercial tonnage.

## Demographics

Emeryville had an estimated population of 8,537 in 2006. There are approximately 5,293 households in Emeryville (599 single-family, 4,657 multi-family and 37 mobile homes). The median household income in 2005 was \$45,359. Emeryville has approximately 684 business

establishments with taxable sales of approximately \$693 million in 2005. Emeryville’s 1.2 square miles are located in west central Alameda County adjacent to the Cities of Berkeley and Oakland.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for Emeryville residents. Solid waste collection service in Emeryville is mandatory for residents. The minimum charge for solid waste service is \$4.38 per month for a 10-gallon mini-can. 10-, 20-, 32-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to elderly or disabled residents at no additional charge. Extra solid waste service is provided at a per-gallon rate, and customers must call in advance of regularly scheduled collection or pay a higher fee for service on another non-regular service day. Customers may also purchase pre-paid extra service bags at a minimum of \$15.40 for one set of 5 bags. Figure 3 illustrates the rates for each container size. Semi-automated trucks are used for collection.

In 2006, 3,665 tons of solid waste, approximately 2.4 pounds per person per day, were collected from single-family and multi-family dwellings in Emeryville. This figure includes 682 tons collected from single-family homes and 2,983 tons collected from multi-family dwellings. Solid waste from Emeryville is transferred at the DSTS and then disposed of at Altamont.

**Figure 3: Container Sizes and Rates**

Cart Size	Rate
10-gallon	\$4.38
20-gallon	\$6.63
32-gallon	\$10.98
64-gallon	\$21.96
96-gallon	\$32.95

#### *Multi-Family*

Emeryville’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported separately from single-family.

## **Residential Recycling**

### *Single-Family*

WMAC performs weekly, single-stream recycling collection on the same day as solid waste collection. WMAC collects the following recyclables: plastic bottles (#1 - 7); glass containers; metal containers; mixed paper; and, used motor oil and filters.

WMAC uses semi-automated trucks for recycling collection. Customers are allowed unlimited recycling collection service as long as materials fit into company-provided carts. Recyclables are taken directly to the DSTS for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 1,180 tons of recyclable materials, approximately 0.8 pounds per person per day, were collected through the single-family and multi-family residential recycling program.

### *Multi-Family*

Emeryville's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers are allowed to select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported separately from single-family.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: vegetables; fruit; food-soiled paper; meat; bones; pet waste from herbivore pets (i.e., pet rabbit waste is acceptable but dog waste is not); and plant debris.

WMAC uses semi-automated and fully-automated trucks for collection. 32-, 64-, or 96-gallon carts are provided by Emeryville. Organics must fit into the cart or be cut into no more than four foot lengths and bundled. Excess organics, in paper bags, can be placed at the curb for collection. Organics are transferred at the DSTS and then composted at either Grover or Z-Best. The cost of organics collection service is included in the residential rates.

In 2006, 336 tons of organics, approximately 0.2 pounds per person per day, were collected through the single-family and multi-family residential organics program.

### *Multi-Family*

Emeryville's multi-family organics collection program includes all of the same features as the single-family organics collection program. Multi-family customers are allowed to select containers that are comparable to those provided in the commercial organics program. Multi-family tonnage is reported separately from single-family.

**Commercial Programs**

**Commercial Solid Waste**

WMAC provides commercial and drop box collection service to Emeryville through an exclusive franchise agreement. Customers can choose from: 32-, 40-, 45-, 64-, and 96-gallon carts; 1- through 7- cubic yard bins and compactors; and, 6-, 14-, 10-, 30-, 40-, and 50-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. WMAC uses a mix of semi- and fully-automated trucks for collection.

Commercial customers may not self-haul materials. Commercial rates for carts, bins, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$14.81/month
Per cubic yard	\$64.74/month
Drop box per cubic yard	\$16.29 - \$54.29/pull

Solid waste is transferred at the DSTS and disposed of at Altamont. In 2006, 6,129 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is not regulated in Emeryville and several companies provide commercial recycling collection including WMAC, Norcal Waste Systems, and Alliance Metals. Materials collected include: containers, plastics, scrap metal, mixed paper, wood, polystyrene, and pallets.

WMAC provides free recycling to small businesses in Emeryville. Emeryville has provided businesses a one-time grant of up to \$500 to cover initial recycling service expenses such as bins and supplies.

WMAC takes recyclable materials directly to DSTS for processing. Other transfer stations and recyclables processing facilities are used by other collection companies. In 2006, 1,494 tons of recyclables were collected by WMAC through the commercial program. Tonnage associated with collection by other commercial recycling collection companies are not reported to Emeryville.

**Commercial Organics**

Commercial organics service is not regulated in Emeryville and several companies provide commercial organics collection including WMAC, Norcal Waste Systems, Dext Feed, Darling

International, and Modesto Tallow Company. Organics collected include: food scraps; wood; compostable paper; fat; grease; dry and semi-dry bakery products; compostable plastics; and plant debris.

Emeryville provides businesses a one-time grant of up to \$500 to cover initial recycling service expenses such as bins and supplies.

The use of transfer stations and processing facilities varies depending upon the collection company.

## **Construction and Demolition Debris Program**

WMAC provides limited, non-exclusive construction and demolition debris (C&D debris) collection services. Other companies can collect source-separated C&D debris materials or mixed C&D debris materials if they demonstrate that at least 95% of the materials will be recycled.

WMAC delivers all materials collected under this program to the DSTS for processing. For other collectors, the use of processing facilities varies by service provider. WMAC achieves approximately 60% diversion for all materials collected through this program.

## **Other Recycling Programs**

### **AB 2176 Programs – Special Events and Large Venues**

The AMC Movie Theater and the Bay Street Annual Art and Music Event are the only events/venues which are reported to the California Integrated Waste Management Board. The events and venues within Emeryville are allowed to select the collection service provider for solid waste and recycling services, and several collection companies are used. In the future, Emeryville plans to work with event planners and venue managers to increase recycling and switch to compostable or recyclable food service ware.

### **Bulky Item Collection**

Each year, Emeryville sponsors one on-call and one same-day (as regular service) neighborhood curbside pick-up for customers living in single-family neighborhoods. The cost of the program is included in the customer rates. Non-recyclable materials accepted include bundled and/or bagged trash (75 pounds or less), furniture, and carpets (less than 4 feet long). Materials recycled through the program include appliances, mattresses, tires, cathode ray tubes (CRTs), computer processing units (CPUs), televisions, and other E-waste. Approximately seven tons of recyclables were diverted through this program in 2006. In the future, Emeryville plans to provide more collection options for multi-family customers.

## **Buyback/Drop-Off Facilities<sup>4</sup>**

Emeryville does not operate, or contract for operation, any of the buyback or drop-off facilities located in the area.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

WMAC provides curbside collection of used motor oil and filters to single-family customers. E-waste is collected by WMAC through the one on-call pick-up per year and the annual drop-off event. There is also a used motor oil drop-off tank located in the public Marina.

## **Household Hazardous Wastes**

WMAC collects used motor oil and filters curbside for single-family customers. E-waste such as CRTs, CPUs, and televisions are collected by WMAC through the annual on-call pick-up and the annual neighborhood event.

## **Member Agency Facility Programs**

WMAC provides solid waste and recycling collection services to public facilities. The costs for this program are included in the customer rates. In 2006, WMAC added food scraps collection to the service at the City Hall administration building.

## **School Programs**

WMAC provides solid waste, recycling, and organics collection to Emeryville schools under a limited, non-exclusive franchise agreement. Recycling and organics collection are at no additional charge. In 2006, 65 tons of materials were diverted by WMAC through this program. In the 2007-2008 academic school year, Emeryville plans to increase the programs offered to the school district.

## **Seasonal Programs**

Holiday trees can be collected in the customer's organics cart or on one of two consecutive special pick-up days curbside in the single-family neighborhoods.

## **Used Tires**

Used tires are collected through the one on-call bulky-item pick-up per year and the annual neighborhood event. The costs for this program are included in the customer rates.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

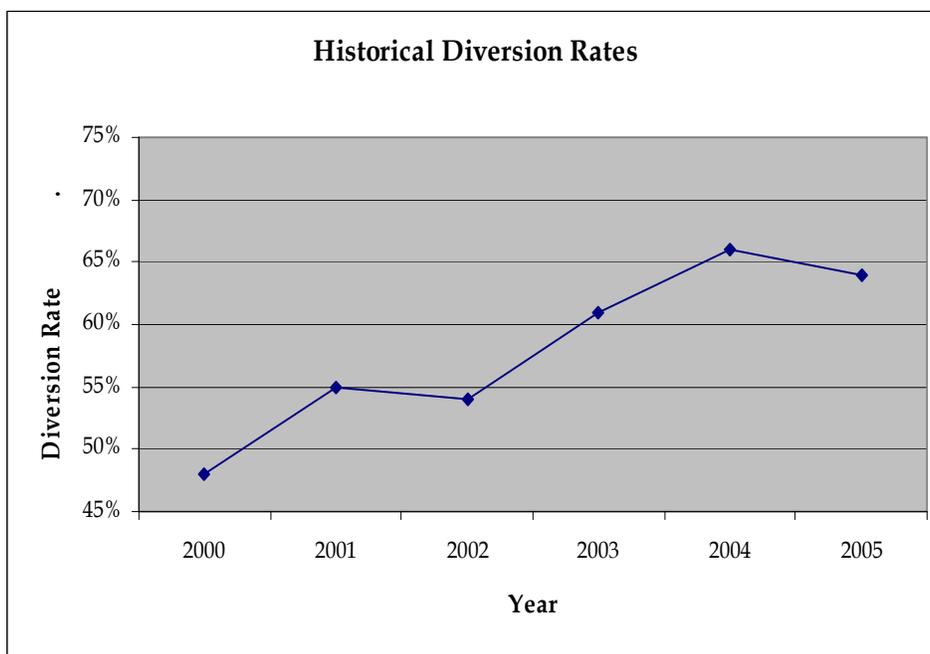
**White Goods Pick-up**

Large appliances are collected through the one on-call bulky-item pick-up per year and the annual neighborhood event. The costs for this program are included in the customer rates.

**AB 939 Compliance Status**

Emeryville’s most current diversion rate is 64%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

**Figure 5: CIWMB Diversion Rates from 2000 to 2005**



**Sustainability**

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening*	No	
Environmentally Preferable Purchasing**	No	
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	No	Yes
Other Sustainability Programs	Yes	Yes
Zero Waste Resolutions / Plans	No	Yes

\*The City has implemented Bay-friendly practices but the Council has not adopted a formal policy.

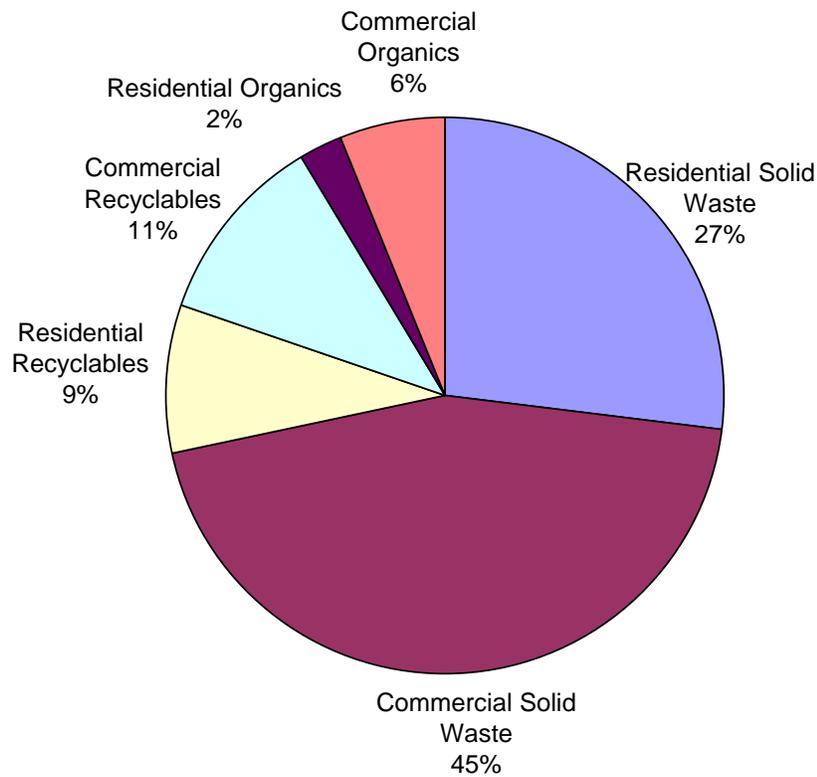
\*\*The City does some EPP purchasing but the Council has not adopted a formal policy.

### **Future Planning and Programming Needs**

Emeryville is committed to reaching the 75% diversion goal specified in Measure D. Emeryville plans to pass the following ordinances by 2009: C&D debris, Civic Green Building, Environmentally Preferable Purchasing and Bay-Friendly Landscaping and Gardening.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Emeryville and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Fremont**  
**Alameda County Source Reduction and Recycling Board**  
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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Fremont (Fremont) are listed below.

- Food scraps are included in residential and large-generator commercial organics accounts.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Allied Waste Services of Alameda County (AWS) is the exclusive service provider for residential solid waste, recycling, and organics collection and commercial solid waste and organics collection.
- Fremont’s franchise agreement with AWS began in January 2003 and expires in June 2013.
- Commercial recycling and construction and demolition (C&D) debris collection are provided on an open-market basis. The City is planning development of a C&D debris ordinance.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Fremont include Waste Management’s Tri-Cities Recycling and Disposal Facility in Fremont (TCRDF), FRTS Industries’ Fremont Recycling and Transfer Station in Fremont (FRTS), and Allied Waste Services’ Newby Island Recyclery in Milpitas (Newby Island). Upon closure of the TCRDF, solid waste will be disposed of at Waste Management’s Altamont Landfill near Livermore (Altamont).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	38,849	0	38,849	20%
Residential Multi-Family	16,989	0	16,989	9%
Commercial and Drop Box	36,643	0	36,643	19%
Self-Haul and Other	0	99,368	99,368	52%
<b>Total</b>	<b>92,481</b>	<b>99,368</b>	<b>191,849</b>	<b>100%</b>

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	45,974	79%
Residential Multi-Family	1,393	2%
Commercial and Drop Box	10,791	19%
Self-Haul and Other	0	0%
<b>Total</b>	<b>58,158</b>	<b>100%</b>

## Demographics

Fremont had a population of 210,158 in 2006. There are approximately 71,512 households in Fremont (49,470 single-family, 21,286 multi-family, and 756 mobile homes). The median household income in 2005 was \$81,582. There are approximately 5,479 business establishments in Fremont with taxable sales of approximately \$2.6 billion in 2005. Fremont includes 94 square miles in southern Alameda County, adjacent to the City of Union City.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

AWS provides solid waste collection services for Fremont residents. Solid waste collection service in Fremont is mandatory for residents. The minimum charge for refuse service is \$21.87 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by AWS. Backyard and side yard service is available to all residents for a fee. Customers can purchase 32-gallon overage bags from AWS for \$5.56 per bag. Figure 3 illustrates the rates for each container size. Fully-automated trucks are used for collection.

In 2006, 55,838 tons of solid waste, approximately 1.5 pounds per person per day, were collected from single-family and multi-family customers. The residential solid waste is transferred at FRTS and then disposed of at the TCRDF. After the TCRDF reaches capacity, residential solid waste will be transferred from FRTS to Altamont.

**Figure 3: Container Sizes and Rates**

Cart Size	Rate
20-gallon cart	\$21.87
32-gallon cart	\$22.36
64-gallon cart	\$24.49
96-gallon cart	\$36.05

#### *Multi-Family*

Fremont’s multi-family solid waste collection service includes all of the same features as the single-family collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program.

### Residential Recycling

#### *Single-Family*

AWS provides weekly single-stream recycling collection on the same day as solid waste collection. AWS collects the following recyclables: aluminum foil and pans (clean); metal cans and lids; glass bottles and jars; mixed paper; newspaper; cardboard; paper milk cartons (aseptic containers); scrap metal; narrow-neck and wide-mouthed plastic containers and tubs (#1 - 7); and, used motor oil and filters.

AWS uses fully-automated co-collection trucks for recycling collection. 64- and 96-gallon carts are provided by AWS. Recyclables are taken to FRTS for processing. The cost for recycling

collection service for single-family homes is \$3.38 per month per account and is included in the customer rates.

In 2006, 21,279 tons of recyclables, approximately 0.6 pounds per person per day, were collected through the single-family and multi-family recycling program.

### *Multi-Family*

Fremont's multi-family recycling collection program includes all of the same features as the single-family recycling collection, except that multi-family collection does not include used oil and filters. Multi-family customers may select containers that are comparable to those provided in the commercial recycling program.

## **Residential Organics**

### *Single-Family*

AWS provides weekly organics collection service on the same day as solid waste collection. AWS collects the following organics: vegetables; fruit; peelings; food-soiled paper; meat; bones; dairy; grass clippings; leaves; pruning (up to six inches in diameter and less than four feet long); wood chips; and, unpainted and uncoated lumber (up to four feet in length).

AWS uses fully-automated trucks for collection. 64- and 96-gallon carts are provided by AWS. Additional plant debris can be set out when residents schedule an on-call bulky pick-up (up to twice per year) at no additional charge. Organics are transferred at FRTS and then composted at Newby Island. The rate for organics collection is \$5.11 per month.

In 2006, 26,087 tons of organics, approximately 0.7 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family*

Organics collection service is not offered to multi-family customers in Fremont at this time.

## **Commercial Programs**

### **Commercial Solid Waste**

AWS provides commercial and drop box solid waste collection service to Fremont through an exclusive franchise agreement. Customers can choose from: 32-, 64-, and 96-gallon carts; 1- through 8-cubic yard bins; and, 6- through 40-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. AWS uses a mix of fully- and semi-automated trucks for collection.

Commercial customers may not self-haul materials. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Refuse Collection**

Measurement	Rate
32-gallon cart	\$12.77/month
Per cubic yard	\$42.47 - \$63.90/month
Drop box per cubic yard	\$13.02 - \$39.58/pull

Solid waste is transferred at FRTS and disposed of at the TCRDF. After the TCRDF reaches capacity, solid waste will be transferred at FRTS and disposed of at Altamont. In 2006, 36,642 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is not regulated in Fremont and several companies provide commercial recycling collection including AWS. AWS utilizes collection containers and vehicles similar to those provided in the commercial solid waste program. Materials collected by AWS are consistent with those accepted in the residential recycling program.

AWS provides one free 96-gallon cart for single-stream recyclables, serviced bi-weekly, to small businesses and non-profits.

AWS takes recyclables directly to Newby Island or FRTS for processing. Other transfer stations and recyclables processing facilities are used by other collection companies. In 2006, 10,484 tons of recyclables were collected through AWS' commercial recycling program. Tons associated with collection by other commercial recycling collection companies are not reported to Fremont.

**Commercial Organics**

AWS provides commercial organics collection service to Fremont through an exclusive franchise agreement. Large-generator commercial accounts may participate in the commercial organics program. Customers may choose from carts or 1- through 3-cubic yard bins for collection. AWS uses a mix of fully- and semi-automated trucks for collection. Collection is available up to three days per week.

Commercial organic materials are taken directly to Newby Island for composting. In 2006, 307 tons of organics were collected through the commercial organics program.

**Construction and Demolition Debris Program**

Construction and demolition debris (C&D debris) collection service is not regulated in Fremont. A C&D debris ordinance is planned for 2007. C&D debris sorting capability is scheduled to be available at the FRTS in July 2008.

## Other Recycling Programs

### AB 2176 Programs – Special Events and Large Venues

The Fremont Festival of the Arts is the only event that qualifies under AB 2176. The City has been working with the coordinators and plans on increased follow-up on event application, planning, and city loaning of collection containers for small events.

### Bulky Item Collection

Fremont sponsors a bi-annual, on-call collection program. Residents contact AWS customer service to request a collection. The material must be placed curbside on the designated date agreed to by AWS and the customer. AWS will send a rear loader or flat bed truck to pick up the items. The cost of this event is included in the residential rates. Materials accepted through this program include household appliances, furniture, mattresses, tires (up to 4), and wood. Materials diverted through this program include metal, wood, furniture, appliances, TV's, monitors, and other E-waste.

### Buyback/Drop-Off Facilities<sup>4</sup>

There are currently no buyback or drop-off facilities in Fremont.

### E-Waste, Universal Waste, and/or Used Oil Collection

AWS provides curbside collection of used motor oil and filters for single-family and multi-family residences. E-waste, TV's, and computer monitors are collected by AWS through the semi-annual bulky on-call collection program and also through the AWS drop-off E-Cycling Center. Fremont residents may visit the facility twice a year with up to four items, free of charge.

A Universal waste collection program at the AWS recycling drop-off center in Fremont accepts household batteries and fluorescent light tubes.

### Household Hazardous Wastes

In July 2008, Fremont plans to open a Household Hazardous Waste (HHW) facility to be sited at the FRTS.

### Member Agency Facility Programs

AWS provides solid waste and recycling collection to public facilities. This cost of this program is funded through customer rates. Food waste from City offices will begin Fall 2007.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **School Programs**

AWS provides recycling services to Fremont schools. The school district is solely responsible for the procuring of its refuse and recycling services.

Fremont employs a part-time recycling coordinator, which is made possible by a City-funded grant.

## **Seasonal Programs**

Unflocked holiday trees are collected curbside during the month of January for single-family residents. Multi-family residents can drop trees off in one of the temporary drop boxes or call the Boy Scouts to pick up. Also, pumpkins are collected in the organics carts during the Fall.

## **Used Tires**

AWS provides a semi-annual, on-call collection program in which up to four tires may be placed curbside.

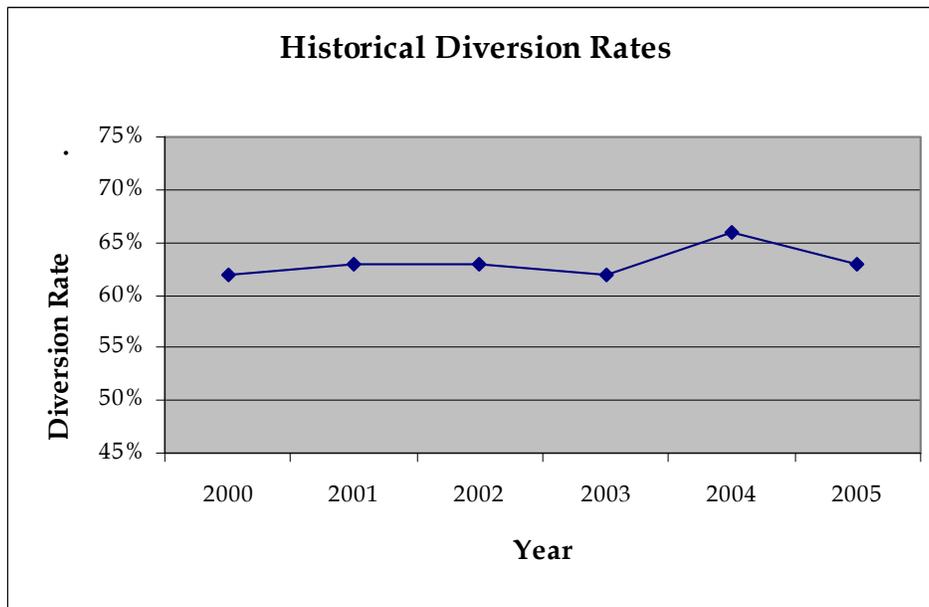
## **White Goods Pick-up**

Large appliances are included in the annual pick-up program. The costs for this program are included in the residential rates.

## **AB 939 Compliance Status**

Fremont's most current diversion rate is 63%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. The most significant changes in the past five years have been the implementation of single-stream recycling and curbside food scraps collection. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	Yes	
Environmentally Preferable Purchasing*	No	
Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	No	Yes
Climate Action Plan	No	
Other Comprehensive Green House Gas/ Climate Change Efforts	No	
Other Sustainability Programs	Yes	
Zero Waste Resolutions / Plans	No	

\* City has adopted a Recycled Products Purchasing Policy.

### Future Planning and Programming Needs

Fremont is committed to reaching the 75% diversion goal specified in Measure D. Fremont currently has a pilot program for commercial organics and plans to expand it late in 2007. Outreach efforts will be used to increase the participation rate in late 2007, and a rate incentive will be developed at a later time to encourage participation.

The opening of the Fremont HHW drop-off location will take place in July 2008. An E-waste drop-off is being planned for the FRTS.

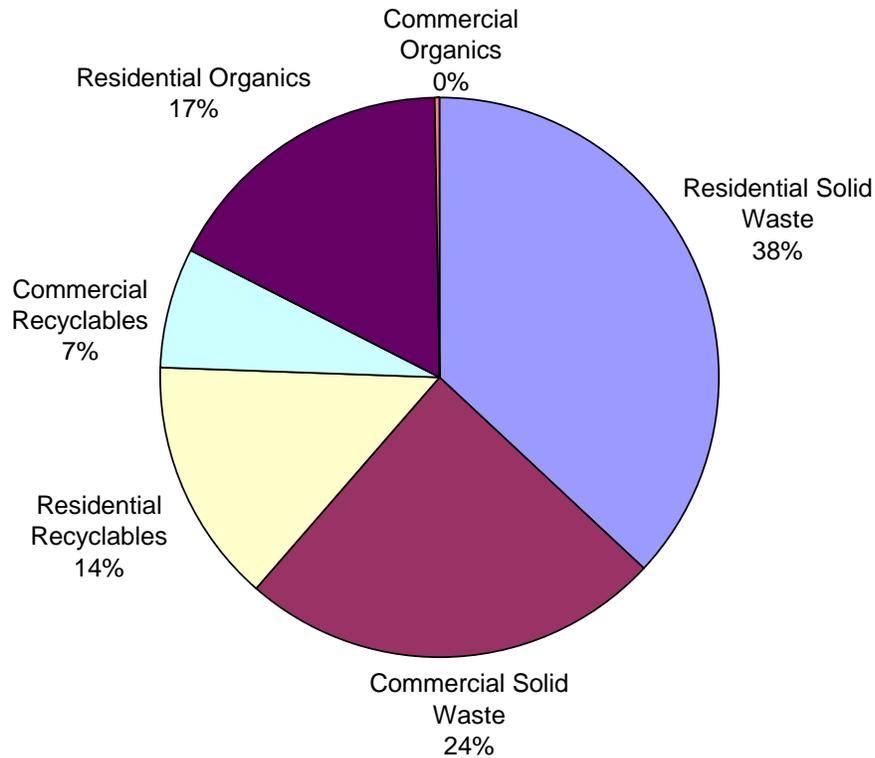
A pilot food waste program will be implemented at one of the City offices beginning Fall 2007.

Other City plans include waste reduction activities and outreach, residential and commercial recycling, and infrastructure development.

Barriers experienced by Fremont in trying to reach 75% diversion are the cost of service and lack of cost-effective processing options.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Fremont and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Hayward**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## **Summary**

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

A portion of the City of Hayward (Hayward) is within the Oro Loma Sanitary District, and residents and businesses in that portion of Hayward receive solid waste and organics services through the District’s programs. However, TriCED under contract to the City provides residential recycling throughout Hayward (including the portion within the Oro Loma Sanitary District). See the District’s program summary for description of those programs. This summary contains program descriptions, and data for that portion of the City is served by City-sponsored programs, except as noted. The demographic information contained in this summary is for the entire City, with the exception of population which excludes the area of the City within the District.

Summary features of the programs for Hayward are listed below.

- Residential organics program is scheduled to expand to include food scraps in 2009.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential, commercial, and industrial solid waste, residential organics collection, and construction and demolition debris. The City has a new franchise agreement with WMAC effective mid-2007 through May 2014.
- Tri-CED Community Recycling (Tri-CED), as a subcontractor to WMAC, is the exclusive service provider for residential recycling collection.
- Commercial organics service is provided on an open-market basis, and several companies provide service in addition to WMAC.
- Facilities used by Hayward are Waste Management’s Davis Street Transfer Station in San Leandro (DSTS), Tri-CED’s Community Recycling Center in Union City (Tri-CED MRF), Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover), Z-Best Composting Facility in Gilroy (Z-Best), and Waste Management’s Altamont Landfill near Livermore (Altamont).

**Figure 1: Summary of Disposal by Sector – 2006\*\***

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	29,658	0	29,658	18%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	78,011	0	78,011	47%
Self-Haul and Other	0	56,696	56,696	35%
<b>Total</b>	<b>107,669</b>	<b>56,696</b>	<b>164,365</b>	<b>100%</b>
*Hayward’s multi-family tonnage is included with commercial tonnage.				
** Hayward’s tonnages exclude that portion of the City served by the Oro Loma Sanitary District’s program.				

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	19,556	93%
Residential Multi-Family	801	4%
Commercial and Drop Box	781	3%
Self-Haul and Other	0	0%
<b>Total</b>	<b>21,138</b>	<b>100%</b>

## Demographics

Hayward had a total population of 146,398 in 2006. There are approximately 47,861 households in Hayward (27,462 single-family, 18,100 multi-family, and 2,299 mobile homes). The area of the City served exclusively by WMAC for residential, commercial, and industrial solid waste, residential organics collection, and construction and demolition debris has a population of approximately 138,148<sup>4</sup>. The median household income in 2005 was \$55,649. There are approximately 4,201 business establishments in Hayward with taxable sales of approximately \$2.5 billion in 2005. Hayward includes 43.5 square miles in western Alameda County, adjacent to the Cities of San Leandro and Union City.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for Hayward residents. Solid waste collection service is mandatory for residents. The minimum charge for refuse service is \$15.93 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to residents at an additional charge. Customers can receive extra service on their regular service day for \$4.81 per 32-gallon equivalent. They may also receive extra service on a day other than their regular service date for \$18.22 per 32-gallon equivalent. Customers can also purchase overage bags for \$4.06 per bag. Figure 3 illustrates the rates for each container size. Semi-automated trucks collect solid waste and all containers must be placed curbside.

<sup>4</sup> Hayward population is not inclusive of the 8,250 residents living in the Oro Loma Sanitary District.

In 2006, 29,658 tons of solid waste, approximately 1.2 pounds per person per day, were collected from single-family dwellings in Hayward. The residential solid waste is transferred at the DSTS and disposed of at Altamont.

Figure 3: Container Sizes and Rates

Cart Size	Rate
20-gallon cart	\$15.93
32-gallon cart	\$23.28
64-gallon cart	\$41.53
96-gallon cart	\$59.74

*Multi-Family*

Hayward’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

**Residential Recycling**

*Single-Family*

Tri-CED performs weekly single-stream recycling collection on the same day as solid waste collection. Tri-CED collects the following recyclables: newspaper; mixed paper; chipboard; books; corrugated cardboard; paper milk cartons (aseptic containers); glass containers of any color; aluminum; small household appliances; aluminum, tin, or bi-metal cans; mixed plastics such as narrow and wide-necked plastic containers (#1 – 7); and, bottles including containers made of HDPE, LDPE, PET, or PVC.

Tri-CED uses fully-automated trucks for recycling collection. 32- and 64-gallon carts are provided by Tri-CED. Customers are allowed to set out cardboard beside carts but all other items must fit in the cart. If there is an overage, the customer must pay an overage fee. Recyclables are taken directly to the Tri-CED MRF for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 9,162 tons of material, approximately 0.3 pounds per person per day, were collected through the single-family and multi-family residential recycling program.

*Multi-Family*

Hayward’s multi-family recycling collection program includes all of the same features as the single-family recycling collection program, plus availability of a 96-gallon recycling container.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: green trimmings; grass; weeds; leaves; pruning; small tree branches; dead plants; brush; tree trimmings; dead trees; small pieces of unpainted and untreated wood; and, other types of organic waste. In 2009, the following materials will be added: vegetable waste; fruit waste; grain waste; dairy waste; meat waste; fish waste; paper contaminated with food scraps or otherwise not accepted in the recyclable materials collection program; and, pieces of unpainted and untreated wallboard.

WMAC uses semi-automated trucks for collection. 64- and 96-gallon carts are provided by WMAC. An extra organics pick-up can be ordered for a fee. Up to two cubic yards per dwelling unit of oversized yard trimmings (branches, prunings) tied in bundles not longer than four feet and branches or prunings not larger than four inches in diameter can be set out for collection and composting as a part of the on-call bulky item collection program. Organics are transferred at the DSTS and composted at Grover. The City has a separate rate for organics collection equal to half of the rate for comparable weekly, single-family solid waste collection.

In 2006, 11,195 tons of organics, approximately 0.4 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family*

Organics collection service is not offered to multi-family customers in Hayward at this time.

## **Commercial Programs**

### **Commercial Solid Waste**

WMAC provides commercial and drop box solid waste collection service to Hayward through an exclusive franchise agreement. Customers can choose from 20-, 32-, 64-, and 96-gallon carts; 1- through 8-cubic yard bins; and, 6- through 50-cubic yard drop boxes and compactors. Collection is provided up to six days per week for solid waste. WMAC uses fully-automated trucks for collection.

Commercial customers may self-haul materials, but all properties are required to subscribe to some level of service. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$19.37/month
Per cubic yard	\$78.18 - \$101.87/month
Drop box per cubic yard	\$18.16 - \$43.04/pull

All materials are transferred at the DSTS and disposed of at Altamont. In 2006, 78,011 tons of material were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is not regulated in Hayward and several companies provide commercial recycling collection, including WMAC. WMAC utilizes collection containers and vehicles similar to those provided in the commercial solid waste program.

As of June 1, 2007, the franchised hauler collects commercial and drop box recyclables at no additional charge, must provide single-stream recyclables collection upon request to all commercial customers, and is required to collect at least the same materials that are accepted in the residential single-stream program. In addition to the source separated commercial recycling program, the franchised hauler is also required to collect commercial dry waste and deliver it to the DSTS Dry Waste/C&D debris MRF for processing and recovery. This commercial dry waste program is based on selective solid waste routing, not source-separation, and is "invisible" to the customers.

WMAC takes recyclables directly to the DSTS for processing. Other transfer stations and recyclables processing facilities are used by other collection companies. Tonnage associated with collection by other commercial recycling collection companies are not reported to Hayward.

**Commercial Organics**

Commercial organics collection service is not regulated in Hayward, and several companies provide commercial organics collection including WMAC. Customers can choose from 32-, 64- or 96- gallon carts or 1 to 3 yard bins. Collection is available up to six days per week. WMAC uses fully-automated trucks for collection. Organics collected by WMAC include: green trimmings; grass; weeds; leaves; prunings; branches; dead plants; brush; tree trimmings; dead trees; small wood pieces; other types of organic yard waste; vegetable waste; fruit waste; grain waste; dairy waste; meat waste; fish waste; paper contaminated with food scraps or otherwise not accepted in the recyclable materials collection program; pieces of unpainted and untreated wood; and, pieces of unpainted and untreated wallboard.

Commercial organics collection is provided at a 50% discount relative to solid waste rates for comparable service levels.

Commercial organics are transferred at the DSTS and composted at Z-Best. In 2006, 781 tons of plant debris were collected through the commercial organics program. The commercial organics program was expanded to include food waste in June 2007. Program data presented in this summary is limited to the previous commercial plant debris collection program.

## **Construction and Demolition Debris Program**

WMAC provides construction and demolition debris (C&D debris) collection services to Hayward residents through an exclusive franchise agreement. Residents and contractors must have a mixed C&D debris box from WMAC or self-haul the material to one of the five certified facilities listed in the Builders Guide to Reuse and Recycling.

C&D debris collected by WMAC is taken directly to the DSTS for processing. In 2006, approximately 12,000 tons of material were collected through this program with diversion of 50% to 75% of those materials.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The City of Hayward has an annual zucchini festival that qualifies as an event under AB 2176. The funding for this program is provided through customer rates.

### **Bulky Item Collection**

Hayward sponsors an on-call clean-up service and residents (single-family homes, duplexes, triplexes and fourplexes) may use this free service up to once per year. All discards must be placed at curbside and must be boxed, bagged, or bundled and no longer than five feet in length. The cost of this service is included in the residential refuse rates. Materials diverted through this program include white goods, tires, mattresses, and E-waste. Residents may dispose of up to 2 cubic yards of material per household including: 3 pieces of household furniture; 3 large appliances or other scrap metal; 2 mattresses; 2 televisions; computers or monitors; 4 car tires; oversized yard trimmings tied in bundles not longer than 4 feet; and, branches or prunings not larger than 4 inches in diameter. In 2006, 190 tons of bulky waste were collected. The program is funded through the residential rates.

### **Buyback/Drop-Off Facilities<sup>5</sup>**

A buyback/ drop-off program is currently in place and has diverted 1,149 tons of material in 2006. The funding for this program is provided by CRV fees and recyclable material market values.

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<sup>5</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

Tri-CED provides curbside collection of used oil and oil filters. Tri-CED provides two, one-gallon plastic containers with screw-on tops for used motor oil collection and one, one-liter plastic zip-lock bag for a used motor oil filter. Such containers shall be provided at no additional cost within two business days of a request made to the contractor. With each pick-up, Tri-CED will replace the plastic containers and empty ziplock bag. In 2006, the City collected 11,892 gallons of used motor oil and 3,127 used oil filters.

E-waste, TV's, and computer monitors are collected by WMAC curbside for a fee, or for free at the annual, on-call bulky clean-up. Universal waste can be dropped off at the Alameda County Household Hazardous Waste drop-off facility in Hayward. Batteries can also be collected when deposited in resident-provided, zip-locked, clear plastic bags by single-family customers and placed curbside next to the cart.

Hayward has a mercury thermometer exchange program with which residents can bring in their old mercury thermometer and can receive a free digital thermometer at no charge.

## **Household Hazardous Wastes**

Tri-CED provides curbside collection for household batteries. Paint, stain, varnish, thinner, adhesives, automobile batteries, cleaners, sprays, and garden products (including pesticides and fertilizers) are accepted at the Alameda County Household Hazardous Waste drop off location in Hayward.

## **Member Agency Facility Programs**

WMAC provides solid waste and recycling collection to public facilities. This cost of this program is funded through residential and commercial customer rates. In 2006, 1,587 tons of garbage were collected through this program. Beginning in June 2007, collection of commercial organics became an added enhancement to this program.

## **School Programs**

WMAC provides recycling services to Hayward schools. The school district is solely responsible for procurement of its refuse, recycling, and organics collection services. All services through the school district are provided on an open-competition arrangement.

## **Seasonal Programs**

Unflocked holiday trees are collected curbside during the first two weeks of January from single-family and multi-family dwellings with up to 25 units. Upon customer request, contractor shall collect holiday trees in 30 cubic yard drop boxes from multi-family dwellings with more than 25 units. Beginning in January 2008, all multi-family dwellings will receive holiday tree collection. In 2006, 43 tons were collected through this program.

Beginning June 1, 2009, pumpkins will be accepted in the organics cart.

**Used Tires**

WMAC provides an annual, on-call clean-up event in which up to four car tires may be placed at the curb for collection. In 2006, 7 tons were collected through this program. This program is funded through residential rates and charges from bulky waste collection.

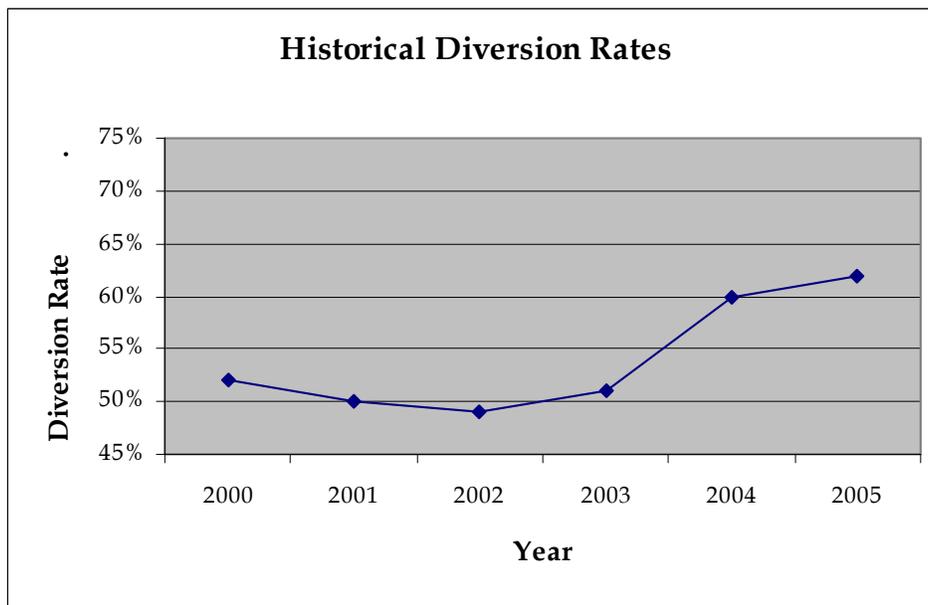
**White Goods Pick-up**

Large appliances can be picked up at the annual on-call clean-up event. Residents may dispose of up to three large appliances or other scrap metal at no charge. In 2006, 183 tons were collected through this program. This program is funded through customer rates.

**AB 939 Compliance Status**

Hayward’s most current diversion rate is 62%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. The most significant changes in the past five years have been the implementation of single-stream recycling, commercial curbside food scraps collection, and a switch from scheduled neighborhood clean-up events to individual on-call bulky item pick-ups. Figure 5 shows the diversion rate over time.

**Figure 5: CIWMB Diversion Rates from 2000 to 2005**



**Sustainability**

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	No	Yes
Environmentally Preferable Purchasing	No	Yes
Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	No	No
Other Sustainability Programs	No	Yes
Zero Waste Resolutions / Plans	No	No

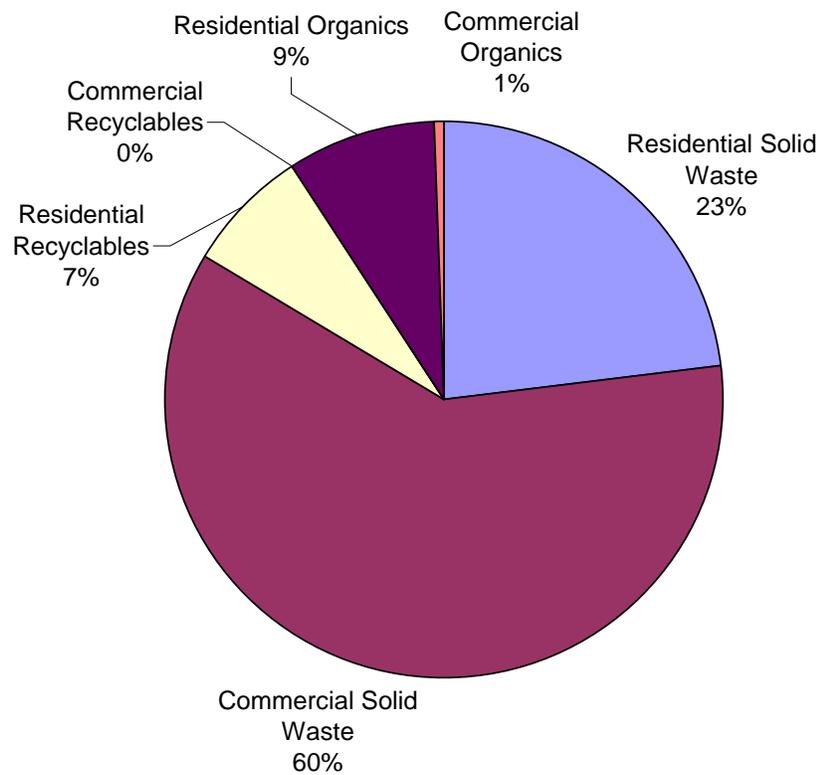
**Future Planning and Programming Needs**

Regarding the 75% diversion goal specified in Measure D, City staff are planning to submit a request to the City Council in Fiscal Year 2007/08 to commit to reaching the 75% diversion goal.

Food waste will be added to the residential organics program in 2009.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Hayward and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



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**City of Livermore**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
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## Summary

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The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Livermore (Livermore) are listed below.

- Residential organics collection has included food scraps since 2004. Commercial organics collection began in May of 2006.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential, commercial, and drop box solid waste, recycling, and organics collection. Livermore’s franchise agreement with WMAC began in August 2002 and expires in June 2009. The City’s disposal agreement with Vasco Road started January 1, 2004 and ends December 31, 2023.
- Construction and demolition debris collection services are provided by a number of companies operating through a permit system.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Livermore include the Waste Management Davis Street Transfer Station in San Leandro (DSTS), the Republic Services Inc. Vasco Road Landfill near Livermore (Vasco Road), and the Z-Best Compost Facility in Gilroy (Z-Best).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	18,168	0	18,168	16%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	9,809	0	9,809	9%
Self-Haul and Other	0	87,124	87,124	76%
<b>Total</b>	<b>27,977</b>	<b>87,124</b>	<b>115,101</b>	<b>100%</b>

\*Livermore’s multi-family tonnage is included with commercial tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	28,710	89%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	3,712	11%
Self-Haul and Other	0	0%
<b>Total</b>	<b>32,422</b>	<b>100%</b>

\* Livermore’s multi-family tonnage is included with commercial tonnage.

## Demographics

Livermore had a population of 81,443 in 2006. There are approximately 29,416 households in Livermore (23,754 single-family, 5,231 multi-family, and 431 mobile homes). The median household income in 2005 was \$96,632. There are approximately 1,842 business establishments

in Livermore with gross taxable sales of approximately \$1.7 billion in 2005. Livermore includes 19.6 square miles in the Tri-Valley area adjacent to the Cities of Dublin and Pleasanton.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for Livermore residents. Solid waste collection service in Livermore is mandatory; however, residents may self-haul to Vasco Road at a discounted rate. Fully-automated trucks collect solid waste and all containers must be placed curbside. Fees for residential solid waste collection are based on the container size chosen by each customer. The minimum charge for refuse service is \$8.91 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to residents at an additional charge. Customers can purchase 32-gallon overage bags from WMAC for \$5.10 per bag. Additional bags are available in sizes up to 96 gallons for \$18.60. Figure 3 illustrates the rates for each cart size.

**Figure 3: Container Sizes and Rates**

Cart Size	Single-family Rate
20-gallon	\$8.91
32-gallon	\$14.86
64-gallon	\$32.68
96-gallon	\$54.22

In 2006, 18,168 tons of solid waste, approximately 1.2 pounds per person per day, were collected from single-family homes in Livermore. The majority of residential solid waste collected from Livermore is taken to Vasco Road.

#### *Multi-Family*

Livermore’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

### Residential Recycling

#### *Single-Family*

WMAC performs weekly, single-stream recycling collection on the same day as solid waste collection. WMAC collects the following recyclables: aluminum pans (clean); metal cans and lids; glass bottles and jars; mixed paper; newspaper; cardboard; narrow-neck and wide-

mouthed plastic containers and tubs (#1 - 7); paper milk cartons (aseptic containers); used motor oil and filters; and, empty aerosol cans.

WMAC uses fully-automated trucks for recycling collection, with 64- and 96-gallon carts. No overages are allowed unless WMAC grants authorization to make collection, and there is a per-bag fee for extra collections. Recyclables are taken directly to the DSTS for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 12,731 tons of recyclables, approximately 0.9 pounds per person per day, were collected through the single-family residential recycling program.

### *Multi-Family Recycling*

Livermore's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers may select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with the commercial tonnage.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: vegetables; fruit; peelings; food-soiled paper; meat; bones; bread; dairy; grass clippings; leaves; prunings (up to six inches in diameter and less than four feet long); wood chips; and, unpainted and uncoated lumber (up to four feet in length).

WMAC uses fully-automated trucks for collection. 95-gallon carts are provided by WMAC. Customers are allowed as many containers as needed for organics collection. For additional yard waste, residents may schedule a free clean-up (up to three per year) at no additional charge. The cost of organics collection service is included in the residential rates.

In 2006, 15,978 tons of organics, approximately 1.1 pounds per person per day, were collected through the single-family residential program.

### *Multi-Family*

Organics collection service is not offered to multi-family customers in Livermore at this time.

## **Commercial Programs**

### **Commercial Solid Waste**

WMAC provides commercial and drop box collection service to Livermore through an exclusive franchise agreement. Customers can choose from: 96-gallon carts; 1- through 8-cubic yard bins; and, 6- through 40-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. WMAC uses a mix of fully- and semi-automated trucks for collection.

Commercial customers may not self-haul materials. Commercial rates for carts, bins, and drop boxes follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
30- to 36- gallon cart	\$19.61/month
Per cubic yard	\$69.83 - \$88.24/month
Drop box per cubic yard	\$16.95 - \$33.95/pull

Solid waste is hauled directly to Vasco Road for disposal. In 2006, 9,809 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

WMAC provides commercial recycling collection service to Livermore through an exclusive franchise agreement. Customers can choose from: 96-gallon carts; 1- through 7-cubic yard bins; and, 6- through 40-cubic yard drop-boxes. WMAC uses a mix of fully- and semi-automated trucks for collection. The single-stream commercial recycling program accepts: aluminum pans (clean); metal cans and lids; glass bottles and jars; mixed paper; newspaper; cardboard, paper milk cartons, aseptic beverage boxes, narrow-neck and wide-mouthed plastic containers and tubs (#1 - 7).

Livermore has provided a waste reduction technical assistance program to 108 commercial and industrial customers. One business applied for and won the State’s WRAP award in 2005.

Commercial recyclables are taken directly to the DSTS for processing. In 2006, 3,300 tons of recyclables were collected through the commercial recycling program.

**Commercial Organics**

WMAC provides commercial organics collection service to Livermore through an exclusive franchise agreement. Customers can choose from 1- through 4-cubic yard bins. Collection is available up to five days per week. WMAC uses fully-automated trucks for collection. Organics collected through this program are consistent with those accepted under the residential organics program.

Commercial organics collection is provided at a 25% discount relative to solid waste rates for comparable service levels.

Commercial organics are transferred at the DSTS and composted at Z-Best. From May to December of 2006, 412 tons of organics were collected through the commercial organics program.

## **Construction and Demolition Debris Program**

A number of companies provide construction and demolition debris (C&D debris) collection services in Livermore through a permit system including WMAC, Archway Recycling, Pagnini's, Amador Valley Industries, Premier Recycle, Chip It Recycling, Echo Landscaping, Sonrise Consolidated, Green Waste Recovery, North Valley Construction, and Pacific Rim Recycling. Contractors may haul any kind of recyclable C&D debris.

Livermore is focusing on improving the diversion of C&D debris that is self-hauled to Vasco Road.

In 2006, 14,786 tons of C&D debris were recycled and 4,091 tons were land filled through this program.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The City of Livermore has the Performing Arts Theatre, the downtown Livermore Theatre and the Livermore Wine Country Festival, of which the Wine Country Festival is the only event that qualifies under AB 2176. The Performing Arts Theatre is believed to be just under the threshold as a qualifying event, but staff were uncertain. The Livermore Theatre just opened and City staff are in the process of contacting them and putting a plan together. The Livermore Wine Country Festival is an annual event drawing over 100,000 attendees over two days.

The City of Livermore created a social events team that meets monthly with event organizers and has engaged a consultant to work with the City on the largest events. The City has also increased outreach to event organizers.

### **Bulky Item Collection**

Livermore sponsors on-call clean-ups, and residents may use this free service up to three times a year. All discards must be placed at curbside by 6:00 a.m. on the morning of the clean-up event and must be boxed, bagged or bundled and no longer than five feet in length. The events are funded through residential refuse rates. Materials diverted through this program include plant debris, clean wood waste and Christmas trees. Residents may dispose of up to 3 cubic yards of material per household. Items not accepted include food waste, large bulky items (such as appliances or furniture), no single item over seventy-five pounds, rock, cement, dirt, hazardous materials, or items longer than five feet in length.

## **Buyback/Drop-Off Facilities<sup>4</sup>**

There are several CRV buyback stations in town. There are also two companies that allow for drop-off or pick-up of material. Nica Metals will accept scrap metal by drop-off only and only charge for larger items like refrigerators. Archway Recycling is currently looking for a location in Livermore to provide free E-waste drop-off. The City also holds E-waste drop-off events that are very popular and successful with residents.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

WMAC provides curbside collection of used oil and oil filters. E-waste, TV's, and computer monitors are collected by WMAC at curbside for a fee. Livermore provided a free drop-off in 2006 for the collection of E-waste that was open to all California residents, collecting 79 tons of E-waste. A program for Universal waste collection is not currently being considered; however, the City does use the Alameda County HHW program.

## **Household Hazardous Wastes**

Household batteries, paint, stain, varnish, thinner, adhesives, automobile batteries, cleaners, sprays, garden products including pesticides and fertilizers are accepted at the Alameda County household hazardous waste drop-off location in Livermore.

## **Member Agency Facility Programs**

WMAC provides solid waste and recycling collection at no additional cost to public facilities, at which City staff are the sole generators of garbage and recycling. City facilities used by the public, such as the airport and golf courses, must pay for services. The program is funded through customer rates. Livermore recycles all cell phones and ink jet cartridges, which are sent to a company in Tennessee. Batteries are also recycled.

## **School Programs**

WMAC provides recycling services to Livermore schools. The school district is solely responsible for procuring refuse, recycling, and organics collection services. All services through the school district are by open-competition. Livermore provides containers to all schools (through State Department of Conservation funds) and hires a consultant to manage the implementation and education of the schools recycling program.

Livermore continues providing support for the Go Green Initiative Program and the Environmental Education for Kids (EEK) Program with funding received from Stopwaste.org (Measure D Funds). In Livermore, the Go Green Initiative Program is offered to Livermore Valley Joint Unified Schools. Currently, there are 11 Livermore schools actively participating in

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

Go Green, focusing most of their efforts on waste diversion. The Environmental Education Program is now in its 13<sup>th</sup> year. During the 2004/2005 school year, the Environmental Education Program reported that 19 schools diverted approximately 200 tons of school-generated waste through recycling and diversion programs and food composting on site.

In the future, the City will work to include food scrap recycling in local school programs.

## **Seasonal Programs**

Unflocked holiday trees are collected curbside during the month of January. Additionally this month, temporary drop-boxes provide holiday tree drop-off locations for residential or commercial customers. In 2005, Livermore collected 38.29 tons of Christmas trees for recycling. Pumpkins are collected in the organics carts during the Fall.

## **Used Tires**

Used tires are not included in the City's programs.

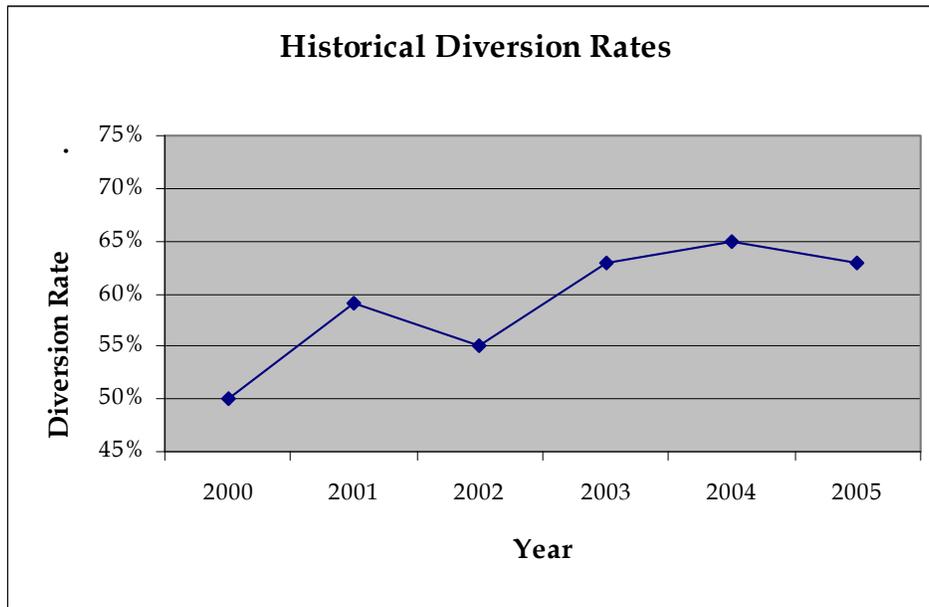
## **White Goods Pick-up**

Large appliances are not included in the annual pick-up program unless special arrangements are made for pick-up. WMAC charges a fee for picking up large appliances.

## **AB 939 Compliance Status**

Livermore's most current diversion rate is 63%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. The most significant changes in the past five years have been the implementation of curbside food scraps collection, working to ensure correct allocation of self-haul tonnages, hiring of a full-time City staff person to work on recycling and diversion goals, and hiring of a full-time WMAC staff person to work on commercial food scrap recycling. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	No	No
Environmentally Preferable Purchasing	No	Yes
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study		Yes
Climate Action Plan	No	
Other Comprehensive Green House Gas/ Climate Change Efforts	No	Yes
Other Sustainability Programs	No	Yes
Zero Waste Resolutions / Plans	No	No

### Future Planning and Programming Needs

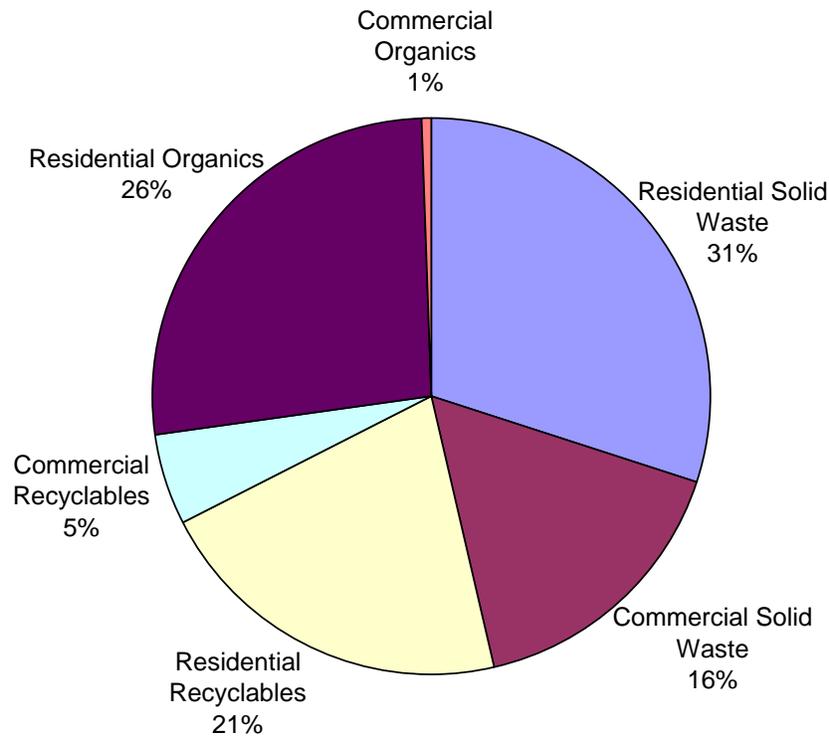
Regarding the 75% diversion goal specified in Measure D, City staff is planning to submit a request to the City Council in Fiscal Year 2007/08 to commit to reaching the 75% diversion goal.

Livermore plans to continue to educate the community through outreach, make a dedicated effort to increase multi-family recycling, and to increase school recycling, including food scraps and battery recycling.

Livermore is exploring the development of a Styrofoam ban. The City is also in the process of launching an internal surplus office supply store for employees. This online system will allow employees to select used items before purchasing new ones. Once the used item has gone through the City purchasing process, the system will allow non-City employees to purchase items from the surplus.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Livermore and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



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**City of Newark**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## **Summary**

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Newark (Newark) are listed below.

- Residential organics collection of food scraps for single-family and multi-family customers began in 2006.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential solid waste, recycling, and organics collection; commercial solid waste collection; drop box solid waste collection; and, mixed construction and demolition debris.
- WMAC’s franchise agreement with Newark began in 2005 and expires in May 2012.
- Commercial recycling, commercial organics, and source-separated construction and demolition debris collection services are provided on an open-market basis.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Newark include Waste Management’s Davis Street Transfer Station in San Leandro (DSTS), the BLT Industries’ Fremont Recycling and Transfer Station (FRTS), Waste Management’s Tri-Cities Recovery and Disposal Facility in Fremont (TCRDF), Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover), and Waste Management’s Altamont Landfill near Livermore (Altamont) once the TCRDF no longer accepts waste for disposal.

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	7,895	0	7,895	18%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	12,961	0	12,961	30%
Self-Haul and Other**	0	22,401	22,401	52%
<b>Total</b>	<b>20,856</b>	<b>22,401</b>	<b>43,257</b>	<b>100%</b>
* Newark’s multi-family tonnage is included with single-family tonnage.				
**Newark’s self-haul tonnage is included with commercial tonnage.				

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	10,505	94%
Residential Multi-Family*	N/A	
Commercial and Drop Box	702	6%
Self-Haul and Other**	N/A	
<b>Total</b>	<b>11,207</b>	<b>100%</b>
*Newark’s multi-family tonnage is included with single-family tonnage.		
**Newark’s self-haul tonnage is included with commercial tonnage.		

## Demographics

Newark had an estimated population of 43,486 in 2006. There are approximately 13,416 households in Newark (10,445 single-family, 2,912 multi-family, and 59 mobile homes). The median household income in 2000 was \$69,350. Newark has approximately 1,165 business establishments with taxable sales of \$1.1 billion in 2005. Newark’s 13 square miles are located in southern Alameda County adjacent to the Cities of Fremont and Union City.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for Newark residents. Solid waste collection service in Newark is mandatory for residents. The minimum charge for solid waste service is \$17.79 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to elderly or disabled residents at an additional monthly charge of \$9.26. Customers may purchase pre-paid extra service bags of 32 gallons or less for \$3.91 per bag. If additional service is needed on a regular basis, a fee will be charged in an amount equal to 25% of the applicable monthly rate. Figure 3 illustrates the rates for each cart size. Fully-automated trucks are used for collection.

In 2006, 7,895 tons of solid waste, approximately 1.0 pounds per person per day, were collected from single-family and multi-family dwellings in Newark. The residential solid waste from Newark is transferred at FRTS and then disposed of at the TCRDF.

**Figure 3: Container Sizes and Rates**

Cart Size	Rate
20-gallon	\$17.79
32-gallon	\$19.77
64-gallon	\$35.02
96-gallon	\$50.25

#### *Multi-Family*

Newark’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Recycling**

### *Single-Family*

WMAC provides weekly, single-stream recycling collection on the same day as solid waste collection. WMAC collects the following recyclables: plastics (#1 - 7); glass containers; metal containers; mixed paper; cardboard; aseptic containers; and used motor oil and filters.

WMAC uses fully-automated trucks for recycling collection. Customers are provided unlimited recycling collection service as long as materials fit into company-provided carts. Recyclables are taken directly to the DSTS for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 5,010 tons of recyclable materials, approximately 0.6 pounds per person per day, were collected through the single-family residential recycling program.

### *Multi-Family*

Newark's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers may select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: vegetables; fruit; food-soiled paper; meat; bones; and plant debris.

WMAC uses fully-automated trucks for collection, using 64-gallon carts provided by WMAC. Additional carts are available in cases of consistent overflow. Organic materials are transferred at the DSTS and then composted at Grover. The cost of organics collection service is included in the residential rates.

In 2006, 5,495 tons of organics, approximately 0.7 pounds per person per day, were collected through the single-family and multi-family residential organics program.

### *Multi-Family*

Newark's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. 64-gallon carts are provided by WMAC and collected as frequently as scheduled by the customer, but no less than once per week. Tonnage for the multi-family program is reported with single-family tonnage.

**Commercial Programs**

**Commercial Solid Waste**

WMAC provides commercial and drop box collection service in Newark through an exclusive franchise agreement. Customers can choose from: 32-gallon carts; 1- through 7- cubic yard bins; and, 14-, 20-, 30-, and 40-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. WMAC uses a mix of semi- and fully-automated trucks for collection.

Commercial businesses may self-haul materials, but all properties must subscribe to some level of collection service. Commercial rates for cans, bins, and drop boxes are regressive with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$14.57/month
Per cubic yard	\$ 60.18 – \$77.52/month
Drop box per cubic yard	\$15.82/pull

As of July 2007, solid waste is transferred at FRTS and disposed of at the TCRDF. After the TCRDF reaches capacity, solid waste will be transferred at FRTS and disposed of at Altamont. In 2006, 12,961 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is not regulated in Newark, and several companies provide commercial recycling collection including WMAC. WMAC utilizes collection containers and vehicles similar to those provided in the commercial solid waste program. Materials collected by WMAC are consistent with those accepted in the residential recycling program.

WMAC takes recyclable materials directly to the DSTS for processing. Other transfer stations and recyclables processing facilities are used by other collection companies. In 2006, 702 tons of recyclables were collected by WMAC through their commercial recycling program. Tons associated with collection by other commercial recycling collection companies are not reported to Newark.

**Commercial Organics**

Commercial organics collection service is not regulated in Newark, and the materials accepted by various collection companies are not known. Use of transfer stations and processing facilities varies by collection company.

## **Construction and Demolition Debris Program**

WMAC provides mixed C&D debris collection services to Newark through an exclusive franchise agreement. Source separated C&D debris collection service is not regulated in Newark and there are various service providers.

C&D debris collected by WMAC is taken directly to the DSTS for processing. Newark does not record the tonnage diverted from mixed C&D debris that is collected.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The annual Newark Days Festival is a celebration of Newark's incorporation date and is the only event in Newark that is reported to the California Integrated Waste Management Board. Solid waste and recycling containers are provided by WMAC for this event at no charge. In the future, Newark would like to incorporate food scrap recycling into this event.

### **Bulky Item Collection**

Newark sponsors three on-call curbside bulky-item collections per year for single-family customers. The cost of this program is included in the residential solid waste rates. The materials collected include household appliances, furniture, carpet, mattresses, white goods, E-waste (TV's, CPUs, monitors, laptops, hard drives, keyboards, mice, printers, DVDs, VCRs, etc.), clothing, tires, oversized yard waste, and similar large items produced as refuse, excluding C&D debris. Materials recycled through the program include appliances, mattresses, tires, and cathode ray tubes. Approximately 608 tons of recyclables were diverted through this program in 2006. The franchised hauler is required to deliver the solid waste collected through this program to the DSTS MRF for processing and recovery.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

Neither the City nor WMAC operates a buyback or drop-off facility in Newark.

### **E-Waste, Universal Waste, and/or Used Oil Collection**

Several companies provide E-waste and Universal waste recycling service in Newark. This program is funded through single-family solid waste rates and charges for additional on-call bulky item collection. The residential recycling truck provides collection of used motor oil and filters on the same day as solid waste collection using WMAC-provided jugs and bags.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **Household Hazardous Wastes**

The City's household hazardous waste collection includes used motor oil and filters, batteries, and household batteries.

## **Member Agency Facility Programs**

WMAC provides solid waste and recycling collection services to public facilities. Program costs are included in residential and commercial solid waste rates. This program was implemented in 1995, and Newark has recycling containers for internal use at City facilities.

## **School Programs**

WMAC provides solid waste, recycling, and organics collection to Newark schools under the exclusive franchise agreement with the City. This program is funded through residential and commercial solid waste rates. These services are provided to the Newark Unified School District at no charge to the City or school district. In 2006, 183.6 tons of materials were diverted by WMAC through this program.

## **Seasonal Programs**

Fall pumpkins can be placed in the organics cart for collection. Holiday trees can be placed in organics carts or placed at the curb for collection at no additional charge. Multi-family complexes that choose to participate in the green waste program can also set out their Holiday trees.

## **Used Tires**

Used tires are collected through the single-family on-call bulky-item collections. Program costs are included in customer rates and additional on-call bulky waste collection fees.

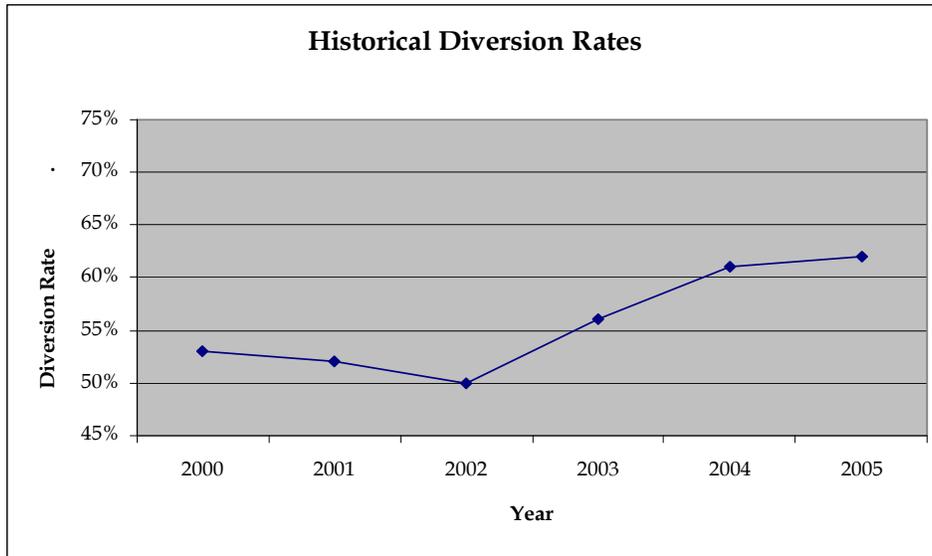
## **White Goods Pick-up**

White goods are collected through the single-family dwelling on-call bulky-item pick-ups. The costs for this program are included in customer rates and additional on-call bulky waste collection fees.

## **AB 939 Compliance Status**

Newark's most current diversion rate is 62%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	No	No
Bay-Friendly Landscaping and Gardening	Yes	
Environmentally Preferable Purchasing	No	No
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	No
Other Comprehensive Green House Gas/ Climate Change Efforts	No	No
Other Sustainability Programs	No	No
Zero Waste Resolutions / Plans	No	No

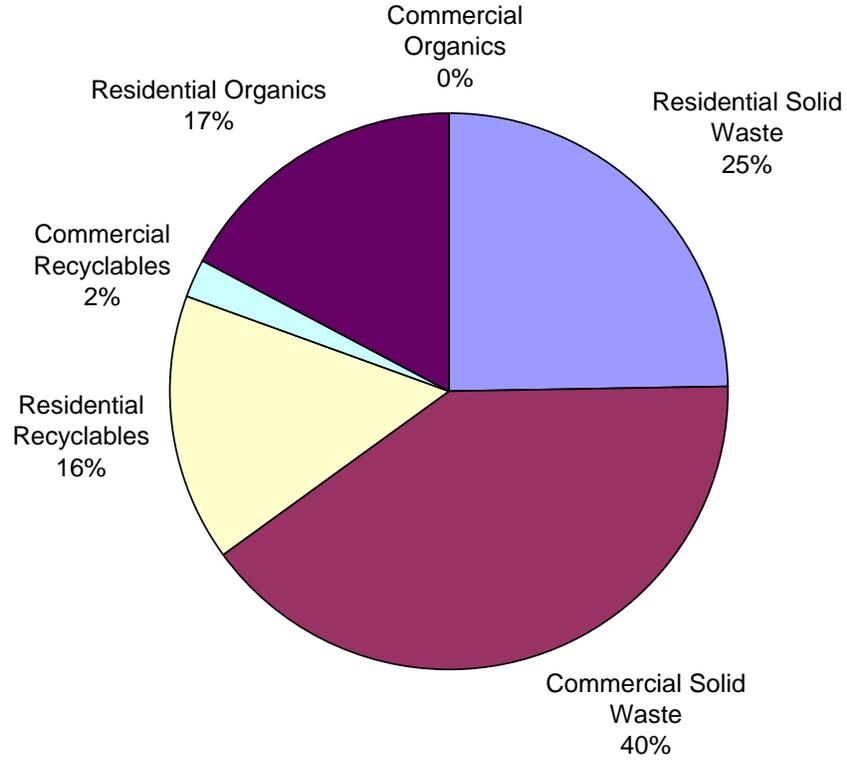
### Future Planning and Programming Needs

Newark is committed to reaching the 75% diversion goal specified in Measure D. The City has identified composting capacity as a barrier to reaching the 75% rate. City staff also recognize a lack of control over the non-residential and self-haul waste streams as a factor in reaching the goal. Newark would like to have the County employ a regional composting facility and believes that increased technical assistance to businesses (small, medium, and large) would be beneficial.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Newark and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total

diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Oakland**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## **Summary**

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Oakland (Oakland) are listed below.

- Residential and commercial organics collection of food scraps began in 2005.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential solid waste, and organics collection; commercial solid waste collection; and drop box solid waste collection.
- WMAC and California Waste Solutions (CWS) have agreements to provide residential recycling collection in separate areas of Oakland.
- Oakland’s franchise agreement with WMAC began in 1995 and expires in December 2012.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Commercial recycling, commercial organics, and construction and demolition debris collection services are provided on an open-market basis.
- Facilities used by Oakland include Waste Management’s Davis Street Transfer Station in San Leandro (DSTS), Waste Management’s Altamont Landfill near Livermore (Altamont), and Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	79,097	0	79,097	20%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box**	156,828	0	156,828	40%
Self-Haul and Other**	0	154,545	154,545	40%
<b>Total</b>	<b>235,925</b>	<b>154,545</b>	<b>390,470</b>	<b>100%</b>

\* Oakland’s multi-family tonnage is included with the single-family tonnage.  
 \*\*Commercial, drop box, and self haul tons are not regulated in Oakland, therefore tonnage data is not available.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	71,579	100%
Residential Multi-Family*	N/A	N/A
Commercial and Drop Box**	N/A	N/A
Self-Haul and Other**	0	0%
<b>Total</b>	<b>71,579</b>	<b>100%</b>

\* Oakland’s multi-family tonnage is included with the single-family tonnage.  
 \*\*Commercial, drop box, and self haul tons are not regulated in Oakland, therefore tonnage data is not available.

## Demographics

Oakland had an estimated population of 411,755 in 2006. There are approximately 161,642 households in Oakland (79,036 single-family dwellings, 82,150 multi-family dwellings, and 456 mobile homes). Median household income in 2005 was \$44,124. Oakland has approximately 19,720 business establishments and in 2005 had taxable sales of approximately \$4.2 billion. Oakland’s 56.1 square miles are located in western Alameda County, adjacent to the Cities of Alameda, Berkeley, Emeryville, and San Leandro.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for Oakland residents. Solid waste collection is mandatory for residents. The minimum charge for solid waste service is \$19.26 per month for a 20-gallon cart. 20-, 35-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to all elderly or disabled residents at no additional cost. Figure 3 illustrates the costs for the different cart sizes. Semi-automated trucks collect solid waste.

In 2006, 79,097 tons of solid waste, approximately 1.0 pound per person per day, were collected from single-family and multi-family customers in Oakland. The residential solid waste is transferred at the DSTS and disposed of at Altamont.

**Figure 3: Container Sizes and Rates**

Can Size	Rate
20-gallon cart	\$19.26
35-gallon cart	\$25.84
64-gallon cart	\$56.33
96-gallon cart	\$86.79

#### *Multi-Family*

Oakland’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Recycling**

### *Single-Family*

WMAC and CWS provide weekly, single-stream recycling collection on the same day as solid waste collection. WMAC and CWS collect the following recyclables: aluminum cans; glass containers; cardboard; mixed paper; narrow-neck plastic bottles; and, used motor oil and filters in company-provided containers.

WMAC and CWS use semi-automated trucks for recycling collection. Containers are 20-, 35-, 64-, and 96-gallon carts. Recyclables are taken directly to the DSTS or the CWS Recycling Facility for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 39,809 tons of recyclable materials, approximately 0.5 pounds per person per day, were collected through the single-family and multi-family residential recycling program.

### *Multi-Family*

Oakland's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers may select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: vegetables; fruit; food-soiled paper; meat; bones; egg shells; small amounts of vegetable oil; cold ashes; and plant debris.

WMAC uses semi-automated trucks for collection. 64-gallon carts are provided by WMAC. All food scraps must be placed inside the carts. Extra plant debris can be set-out at no extra charge the following three ways: (1) placed in customer-provided container (up to 35 gallons); (2) bundled, tied, and placed next to organics cart (no more than four feet long and six inches in diameter, and weigh less than 75 pounds); or, (3) placed in a brown paper bag next to organics cart (up to 35 gallons). Organics are transferred at the DSTS and composted at Grover. The cost of organics collection service is included in the residential rates.

In 2006, 31,770 tons of organics, approximately 0.4 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family*

Organics collection service is not offered to multi-family customers in Oakland at this time.

**Commercial Programs**

**Commercial Solid Waste**

WMAC provides commercial and drop box solid waste collection services to Oakland through an exclusive franchise agreement. Customers can choose from: 1- through 7- cubic yard bins; 20-, 30-, 40-, and 50-cubic yard drop boxes; and, compactors in various sizes. Collection is provided up to six days per week for solid waste. WMAC uses fully-automated trucks for collection.

Commercial businesses may self-haul materials, but all properties must subscribe to some level of collection service. Commercial rates for bins, drop boxes and compactors follow a progressive per-yard rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$25.97
Per cubic yard	\$88.48 - \$134.41/month
Drop box per cubic yard	\$25.27/pull

Commercial solid waste is transferred at the DSTS and disposed of at Altamont. In 2006, 139,831 tons of solid waste were collected through the commercial and drop box program and 16,997 tons were delivered by City crews to the DSTS under the City’s franchise with WMAC.

**Commercial Recycling**

Commercial recycling service is not regulated in Oakland and approximately 13 companies provide collection service. Customers can choose from: 35-, 64-, or 96-gallon carts; 1- through 7-cubic yard bins; and various sizes of drop boxes and compactors for recycling collection. Recyclable materials collected by companies in Oakland include any materials which service providers are willing to collect, including, but not limited to, white paper, mixed paper, and cardboard.

The City has recently added small business recycling services through WMAC and CWS.

Collection companies use various transfer stations and recyclables processing facilities. Commercial recycling collection tonnages are not reported to Oakland.

**Commercial Organics**

Commercial organics service is not regulated in Oakland, and several companies provide commercial organics collection including WMAC and Norcal Waste Systems. Customers can choose from 64- and 96-gallon carts and various bin sizes. Organics collected include: food

scraps; wood; compostable paper; fat; grease; dry and semi-dry bakery products; compostable plastics; and plant debris.

Use of transfer stations and processing facilities varies by collection company.

## **Construction and Demolition Debris Program**

Construction and demolition debris (C&D debris) collection in Oakland is not regulated, and several haulers provide collection services. City staff indicate that C&D debris haulers have plans to collect and recycle drywall scrap, carpet, and used aggregates.

Use of facilities varies by service provider. In 2006, 121,194 tons of material were collected and processed through the C&D debris recycling program.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

Special events and large venues in Oakland that qualify under AB 2176 include the following: Dunsmuir House and Gardens, Fruitvale Unity Council, Greek Orthodox Cathedral of Ascension, Hilton Hotel - Oakland Airport, Laney Community College, Oakland Coliseum, Oakland International Airport, and the Oakland Marriott City Center and Convention Center.

### **Bulky Item Collection**

WMAC provides one on-call curbside pick-up per year for single-family dwellings. The cost of this service is included in the single-family solid waste rates. Non-recyclable materials accepted through this program include household furniture, carpet (less than four feet long), small appliances, painted wood or doors (less than six feet long), and other solid waste (must be bagged or boxed). Customers are limited to a set out of no more than 3-cubic yards of non-recyclable materials. Materials diverted through this program include large appliances (no more than three), computer monitors and televisions (no more than two), computer processing units (CPUs), tires (no more than four), mattresses (no more than three), appliances, plant debris, clean wood (less than four feet long), scrap metal, and cardboard. In 2006, 4,387 tons of material were collected through this program.

In 2006, Oakland diverted approximately 2,919 tons of material through this program.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

There are several recycling buyback and drop-off facilities in Oakland. The number of tons diverted through these facilities is unknown.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

WMAC provides weekly curbside collection of used motor oil and filters. WMAC collects E-waste from single-family dwellings through the annual on-call pick-up program.

## **Household Hazardous Wastes**

The City does not sponsor household hazardous waste collection services beyond those provided through the Alameda County Household Hazardous Waste Program.

## **Member Agency Facility Programs**

WMAC and the East Bay Conservation Corps (EBCC) provide solid waste and recycling collection to public facilities. WMAC's service is funded through customer rates. In 2006, EBCC received \$5,000 for its solid waste and recycling collection services.

## **School Programs**

WMAC has a separate contract with the Oakland Unified School District for solid waste and recycling collection services.

## **Seasonal Programs**

Holiday trees are collected from single-family dwellings during the first two weeks in January on the same day as regular collection service. Pumpkins can be placed in the organics carts.

## **Used Tires**

Tires are diverted through the annual on-call pick-up. Customers may set out up to four tires per household. The cost for this program is included in the single-family solid waste rates.

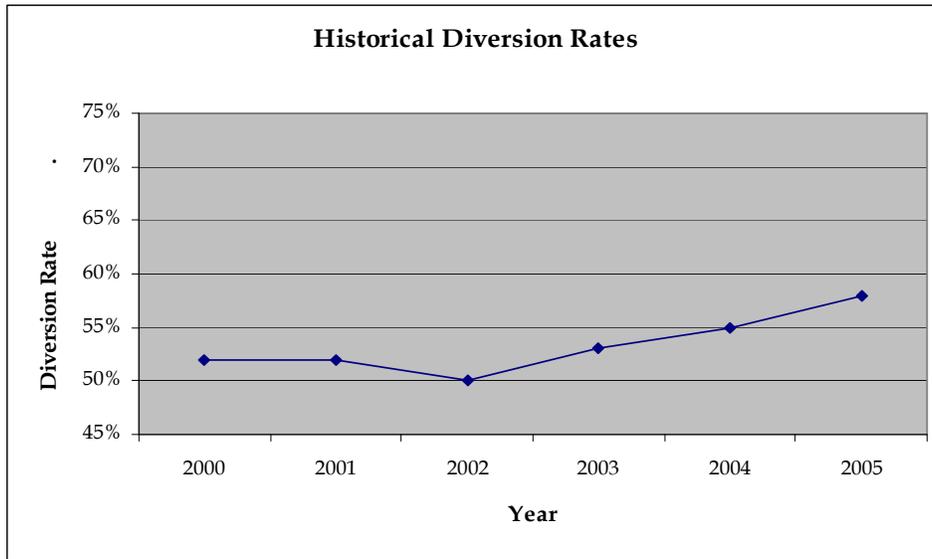
## **White Goods Pick-up**

Large appliances are included in the annual on-call pick-up program. The cost for this program is included in the single-family solid waste rates.

## **AB 939 Compliance Status**

Oakland's most current diversion rate is 58%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. In 2005, Oakland implemented city-wide weekly recycling and organics collection and shifted from dual-stream, manual single-family and multi-family recycling collection to single-stream, semi-automated recycling collection. In 2005, Oakland also implemented food scraps collection for the single-family organics program. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

Figure 6: Sustainability Programs/Policies

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	No	
Environmentally Preferable Purchasing	Yes	
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	Yes	
Other Sustainability Programs	Yes	
Zero Waste Resolutions / Plans	Yes	

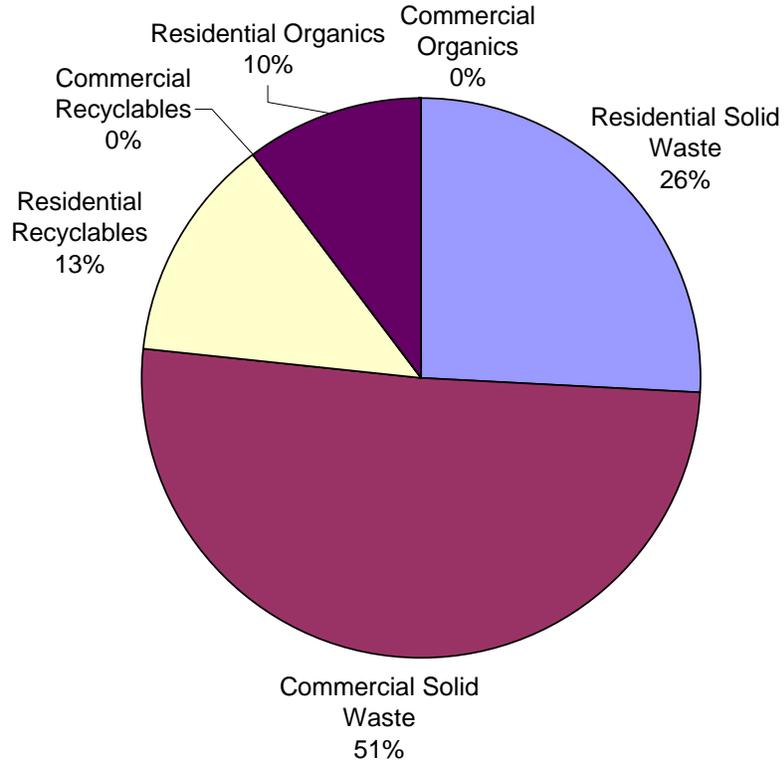
### Future Planning and Programming Needs

Oakland is committed to reaching the 75% diversion goal specified in Measure D. Oakland has recently developed a 75% diversion strategic plan.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Oakland and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting

of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

**Figure 7: Composition of Municipally-Controlled Disposal and Diversion**



**City of Piedmont**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Piedmont (Piedmont) are listed below.

- Plan to expand residential organics collection program to include food scraps beginning in July 2008.
- Single-stream collection of recyclables.
- 20-gallon or lower volume customer-provided garbage cans for low-volume residential generators.
- Republic Services, Inc. (Republic) is the exclusive service provider for residential and commercial solid waste, recycling, and organics collection; construction and demolition debris (C&D debris) collection; and drop box solid waste collection.
- Piedmont’s franchise agreement with Republic began in July 2001 and expires in July 2008.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Commercial recycling collection service is provided by Republic on a non-exclusive basis.
- Facilities used by Piedmont include Republic’s Golden Bear Transfer Station in Richmond (Golden Bear), Republic’s Potrero Hills Landfill in Suisun City (Potrero), West County Integrated Resource Recovery Facility in Richmond (IRRF), and the West Contra Costa Sanitary Landfill in Richmond (WCCSL).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	3,207	0	3,207	68%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	909	0	909	19%
Self-Haul and Other	0	586	586	12%
<b>Total</b>	<b>4,116</b>	<b>586</b>	<b>4,702</b>	<b>100%</b>

\* Piedmont’s multi-family tonnage is included with the single-family tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	4,039	84%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	772	16%
Self-Haul and Other	0	0%
<b>Total</b>	<b>4,811</b>	<b>100%</b>

\* Piedmont’s multi-family tonnage is included with the single-family tonnage.

## Demographics

Piedmont had an estimated population of 10,999 in 2006. There are approximately 3,861 households in Piedmont (3,784 single-family, 69 multi-family, and 8 mobile homes). Median household income in 2000 was \$134,270. Piedmont has approximately 233 business establishments and, in 2005, had taxable sales of approximately \$17 million. Piedmont includes 1.8 square miles in western Alameda County, adjacent to the City of Oakland.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

Republic provides solid waste collection services to Piedmont residents. Solid waste collection in Piedmont is mandatory for residents. The minimum charge for solid waste service is \$13.49 per month for a 20-gallon (or smaller) can. 20- and 32-gallon cans and carts are provided by customers. Backyard and side-yard service is available to all residents at no additional cost. Overage bags are provided by Piedmont at a cost of \$5.77 per bag. Figure 3 illustrates the rates for each container size. Residential solid waste is collected manually.

In 2006, 3,207 tons of solid waste, approximately 1.6 pounds per person per day, were collected from single-family and multi-family customers in Piedmont. Residential solid waste is transferred at Golden Bear and disposed of at Potrero.

**Figure 3: Container Sizes and Rates**

Can Size	Rate
20-gallon can (or less)	\$13.13
32-gallon can (or less)	\$20.50
Additional 32-gallon can	\$23.15

#### *Multi-Family*

Piedmont’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family tonnage is reported with the single-family tonnage.

### Residential Recycling

#### *Single-Family*

Republic provides weekly, curbside single-stream recycling collection on the same day as solid waste collection. Republic collects the following recyclables: narrow-neck plastics (#1-7); glass bottles and jars; steel; tin; aluminum foil; aluminum pie plates; mixed paper; and, cardboard.

Republic uses manually operated trucks for recycling collection. Customers use two 12-gallon tubs. Recyclables are taken directly to the IRRF for processing. The single-family and multi-family rate for two 12-gallon recycling tubs is \$2.43 per month.

In 2006, 2,667 tons of recyclables, approximately 1.3 pounds per person per day, were collected through the single-family and multi-family residential recycling program.

### *Multi-Family*

Piedmont's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family tonnage is reported with the single-family tonnage.

## **Residential Organics**

### *Single-Family*

Republic provides weekly or bi-weekly (as selected by the customer) organics collection service on the same day as solid waste collection, on a subscription basis at a rate of \$11.57 for weekly service and \$5.77 for bi-weekly service. Backyard and side-yard service is available to all residents at no additional cost. Republic collects plant debris in Piedmont. The City plans to add food scraps to the program by July 2008.

Republic uses manually operated trucks for collection. 32-gallon carts are provided by the City. Organics must be placed inside the carts or bundled in piles no more than one foot by four feet. Branches must not be larger than four inches in diameter and four feet in length. Overage bags can be purchased from Piedmont at a cost of \$2.85 per bag. Organics are taken directly to the WCCSL for composting or for use as alternative daily cover (ADC).

In 2006, 1,372 tons of organics, approximately 0.7 pounds per person per day, were collected through the single-family and multi-family residential organics program.

### *Multi-Family*

Piedmont's multi-family organics collection program includes all of the same features as the single-family organics collection program. Multi-family tonnage is reported with the single-family tonnage.

## **Commercial Programs**

### **Commercial Solid Waste**

Republic provides commercial and drop box solid waste collection service to Piedmont through an exclusive franchise agreement. Customers can choose from 32-gallon cans and 1- through 6-cubic yard bins. Collection is provided up to five days per week for solid waste. Republic uses a mix of semi- and fully-automated trucks for collection.

Commercial customers may not self-haul materials. Commercial rates for cans, bins, and drop boxes follow a uniform rate structure with a frequency incentive. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate*
32-gallon cart	\$20.50/month
Per cubic yard	\$105.39- \$114.75/month
Drop box per cubic yard	\$25.42 - \$27.58/pull

Solid waste is transferred at Golden Bear and disposed of at Potrero. In 2006, 909 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Republic provides commercial recycling collection service to Piedmont under a limited non-exclusive franchise agreement. Customers can choose from: 65-gallon carts; 4- through 6-cubic yard bins; and, 10-, 14-, and 20-cubic yard drop boxes for collection. Recyclable materials collected are the same as those included in the residential recycling program.

Commercial recycling rates are set at a 30% discount relative to the comparable solid waste rates.

Commercial recyclables are taken directly to the IRRF for processing. The tonnage associated with the commercial recycling program is reported with residential recycling tonnage.

**Commercial Organics**

Republic provides commercial organics collection in Piedmont under an exclusive franchise agreement. Customers provide their own containers. Republic uses manually operated trucks for collection. Organics collected include plant debris, such as garden waste, and pre-processed tree trimmings.

Commercial organics collection is provided at a 20% - 40% discount relative to solid waste rates for comparable service levels.

Commercial organics are taken directly to the WCCSL for composting or for use as ADC. In 2006, 772 tons of organics were collected under the commercial organics program.

**Construction and Demolition Debris Program**

Republic provides C&D debris collection service through an exclusive franchise agreement. Customers can choose from 10-, 14-, and 20-cubic-yard drop boxes.

Republic delivers all materials collected under this program directly to the IRRF for processing. In 2006, 135 tons of dirt were collected through this program.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The two special events in Piedmont that qualify under AB 2176 are the Fourth of July Parade and the Harvest Festival. Republic provides solid waste and recycling collection during these events. The cost of this program, \$1,000 in 2006, is included in the customer rates. In 2008, Piedmont plans to add food scraps and other compostable materials to the program.

### **Bulky Item Collection**

Republic provides up to two on-call curbside collections per year for single- and multi-family dwellings. The cost of this service is included in the customer rates. Materials accepted through this program include large and small appliances, furniture, carpets, mattresses, and E-waste. Materials diverted through this program include appliances, E-waste, carpets, and tires.

In 2006, Republic provided this service to approximately 919 households in Piedmont. The total cost for this program in 2006 was \$24,400.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

There are no residential buyback or drop-off facilities in Piedmont. The residents and businesses have access to over 10 regional buyback and drop-off facilities.

### **E-Waste, Universal Waste, and/or Used Oil Collection**

Republic collects E-waste through the on-call pick-ups. In 2006, Republic diverted 17,504 pounds of material through this program. The E-waste recycling program is funded through Measure D.

### **Household Hazardous Wastes**

Household batteries are collected at Piedmont and Alameda County drop-off locations. Piedmont residents and businesses have access to the three Alameda County Household Hazardous Waste Program drop-off sites.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **Member Agency Facility Programs**

Republic provides solid waste and recycling collection to public facilities in Piedmont. Piedmont's collection service is funded through customer rates.

## **School Programs**

Republic has an exclusive contract for solid waste and recycling collection at Piedmont schools. The costs for this program are included in customer rates.

## **Seasonal Programs**

Holiday trees are collected from single-family and multi-family dwellings during the first two weeks in January on the same day as regular collection service.

## **Used Tires**

Tires are diverted through the on-call pick-ups. The cost for this program is included in customer rates.

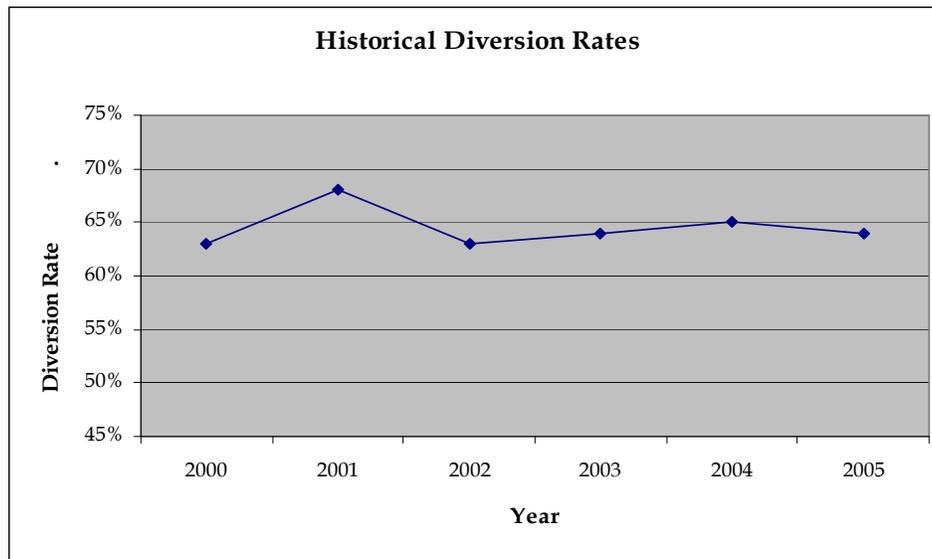
## **White Goods Pick-up**

Large appliances are included in the on-call pick-ups. The cost for this program is included in customer rates.

## **AB 939 Compliance Status**

Piedmont's most current diversion rate is 64%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Piedmont implemented a C&D debris ordinance in February 2007. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

Figure 6: Sustainability Programs/Policies

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	No	No
Bay-Friendly Landscaping and Gardening	No	Yes
Environmentally Preferable Purchasing	No	Yes
Civic Green Building	No	No
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	No
Other Comprehensive Green House Gas/ Climate Change Efforts	No	No
Other Sustainability Programs	No	No
Zero Waste Resolutions / Plans	No	No

### Future Planning and Programming Needs

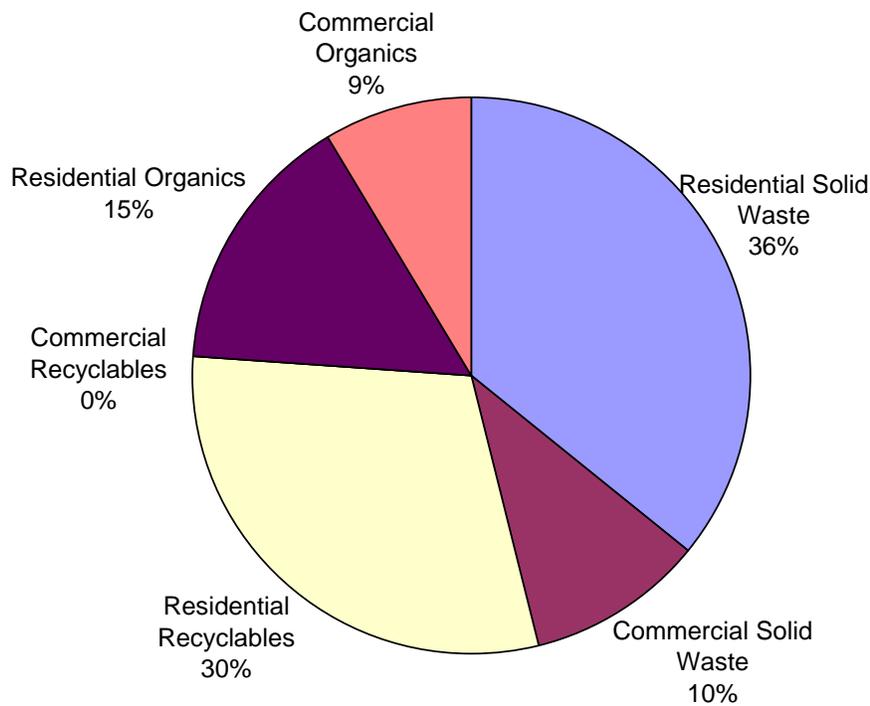
Piedmont has not formally committed to reaching the 75% diversion goal specified in Measure D. However, Piedmont is committed to increasing its diversion rate. In 2008, Piedmont plans to: (1) include food scraps as part of the residential organics collection program; (2) introduce wheeled recycling carts; and, (3) provide backyard and side yard recycling collection service. Staff indicate that the main barriers to reaching 75% are likely the present lack of large wheeled recycling carts for single-family and multi-family residences, a lack of a mandatory weekly green waste collection program, and lack of a food scrap composting program.

Countywide programs which have been identified by Piedmont as essential to increasing diversion include: (1) StopWaste.org grant funding and education programs; (2) the availability

of the Alameda County Household Hazardous Waste program drop-off facilities; and, (3) the coordination of household battery collection between the cities and Alameda County. Piedmont staff suggest that the construction of an organics composting facility in Alameda County would be beneficial.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Piedmont and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

**Figure 7: Composition of Municipally-Controlled Disposal and Diversion**



**City of Pleasanton**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Pleasanton (Pleasanton) are listed below.

- Residential organics collection for single-family dwellings began including food scraps in 2005.
- Residential recyclables are separated from solid waste at the Pleasanton Transfer Station (PTS). Customers may place recyclable materials in a blue bag to reduce contamination. Pleasanton reports that plans are in process for implementing single-stream recyclables collection.
- 35-gallon garbage cart for low-volume residential generators. The default residential solid waste service level is a 90-gallon cart.
- Pleasanton Garbage Service (PGS) is the exclusive service provider for residential and commercial solid waste, recycling, and organics collection; construction and demolition debris (C&D debris) collection; and drop box solid waste collection.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Pleasanton’s franchise agreement with PGS began in August 1989 and expires in July 2019.
- Facilities used by Pleasanton include PGS’ Pleasanton Transfer Station in Pleasanton (PTS), Allied Waste’s Newby Island Composting Facility in Milpitas (Newby Island), and Republic Services’ Vasco Road Landfill near Livermore (Vasco Road).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	21,157	0	21,157	19%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	14,452	0	14,452	13%
Self-Haul and Other	0	78,464	78,464	69%
<b>Total</b>	<b>35,609</b>	<b>78,464</b>	<b>114,073</b>	<b>100%</b>

\*Pleasanton’s multi-family tonnage is included with commercial tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	17,066	84%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	3,199	16%
Self-Haul and Other	0	0%
<b>Totals</b>	<b>20,265</b>	<b>100%</b>

\*Pleasanton’s multi-family tonnage is included with single-family tonnage.

## Demographics

Pleasanton had an estimated population of 67,876 in 2006. There are approximately 25,470 households in Pleasanton (19,495 single-family, 5,519 multi-family, and 456 mobile homes).

Median household income in 2005 was \$101,022. Pleasanton has approximately 2,750 business establishments and, in 2005, had taxable sales of approximately \$1.9 billion. Pleasanton's 16.2 square miles are located in the Tri-Valley region of Alameda County, adjacent to the Cities of Dublin and Livermore.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

PGS provides solid waste collection for Pleasanton residents. Solid waste collection in Pleasanton is mandatory for residents. The minimum charge for solid waste service is \$22.50 per month for a 35-gallon cart. 35- and 90-gallon carts are provided by Pleasanton. PGS offers backyard or side yard collection to elderly or disabled customers at no additional cost and to all other customers for an additional \$4.85 per month. Figure 3 illustrates the rates for each container size. Semi-automated trucks are used for collection.

**Figure 3: Container Sizes and Rates**

Can Size	Rate
35-gallon cart	\$22.50/month
90-gallon cart	\$25.04/month

In 2006, 21,157 tons of solid waste, approximately 1.7 pounds per person per day, were collected from single-family and multi-family customers in Pleasanton. Residential solid waste is transferred at the PTS and disposed of at Vasco Road.

#### *Multi-Family Solid Waste*

Pleasanton's multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

### Residential Recycling

#### *Single-Family Recycling*

PGS provides weekly collection of recyclables and garbage combined in 90-gallon carts. PGS sorts the following recyclable materials: aluminum cans; tin; steel; glass; mixed paper; and, cardboard. Customers may place recyclables in blue bags inside their solid waste cart to assist with reducing contamination of fibers.

Recyclables are commingled inside residents' solid waste carts and taken directly to the PTS for processing at a "dirty MRF". The cost of recycling collection service is included in the residential rates.

In 2006, 5,936 tons of recyclables, approximately 0.5 pounds per person per day, were collected through the residential recycling program.

### *Multi-Family Recycling*

Pleasanton's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

## **Residential Organics**

### *Single-Family Organics*

PGS provides weekly organics collection on the same day as solid waste collection. PGS collects the following organics: plant debris; vegetables; fruit; peelings; food-soiled paper; meat; bones; dairy; grass clippings; leaves; pruning (up to six inches in diameter and less than four feet long); wood chips; and, unpainted and uncoated lumber (up to four feet in length).

PGS uses fully-automated trucks for collection. Containers are 96-gallon carts provided by Pleasanton. Organics are transferred at the PTS and then composted at Newby Island. The cost of organics collection service is included in the residential rates.

In 2006, 11,130 tons of organics, approximately 0.9 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family Organics*

Organics collection service is not offered to multi-family customers in Pleasanton at this time.

## **Commercial Programs**

### **Commercial Solid Waste**

PGS provides commercial and drop box solid waste collection service to Pleasanton through an exclusive franchise agreement. Customers can choose from 1-, 2-, 3-, 4-, and 7-cubic yard bins and 15-, 20-, 30-, and 40-cubic yard drop boxes. Collection is provided up to five days per week for solid waste. PGS uses fully-automated trucks for collection.

Commercial businesses may self-haul materials, but all properties must subscribe to some level of collection service. Commercial rates for bins and drop boxes follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

<b>Measurement</b>	<b>Rate</b>
35-gallon cart	\$22.50/month
Per cubic yard	\$76.51/month
Drop box per cubic yard	\$17.67/pull

Solid waste is transferred at the PTS and disposed of at Vasco Road. In 2006, 14,452 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

PGS provides commercial recycling collection services to Pleasanton under an exclusive franchise agreement. Customers can choose from 1-, 2-, 3-, 4-, and 7-cubic yard bins and 15-, 20-, 30-, and 40-cubic yard drop boxes. Materials accepted include mixed paper and cardboard.

Commercial recycling rates are set at a discount relative to comparable solid waste rates.

Commercial recyclables are taken directly to the PTS for processing. In 2006, 3,199 tons of commercial recyclables were collected through the commercial program.

**Commercial Organics**

Organics collection service is not currently available to Pleasanton businesses.

**Construction and Demolition Debris Program**

PGS provides C&D debris collection service to Pleasanton through an exclusive franchise agreement. Customers can choose from 1-, 2-, 3-, 4-, and 7-cubic yard bins and 15-, 20-, 30-, and 40-cubic yard drop boxes for C&D debris collection.

PGS delivers all materials collected under this program to the PTS for processing. The PTS diverts approximately 60% of the C&D debris collected. PGS did not begin tracking C&D debris until the last three months of 2006; but, in the last quarter of 2006, PGS collected 746 tons of materials.

**Other Recycling Programs**

**AB 2176 Programs - Special Events and Large Venues**

There are currently no special events or large venues in Pleasanton, other than the Alameda County Fairgrounds that meet the requirements of AB 2176.

## **Bulky Item Collection**

Pleasanton does not offer separate bulky item collection.

## **Buyback/Drop-Off Facilities<sup>4</sup>**

There is one residential buyback facility in Pleasanton, located at the PTS.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

Pleasanton began hosting an annual one day drop-off event in 2003. In 2007, the City hosted a three day drop-off event at the county fairgrounds.

## **Household Hazardous Wastes**

The City does not sponsor household hazardous waste collection services beyond those offered by the Alameda County Household Hazardous Waste Program.

## **Member Agency Facility Programs**

PGS provides solid waste and recycling collection to public facilities in Pleasanton at the same rates charged to commercial customers.

## **School Programs**

Pleasanton schools participate in the Go Green Initiative, a comprehensive environmental action plan for schools that promotes environmental stewardship.

## **Seasonal Programs**

Holiday trees are collected from single-family and multi-family dwellings during the first two weeks in January on the same day as regular collection service.

## **Used Tires**

Tires are collected by PGS at the PTS and disposed of at Vasco Road.

## **White Goods Pick-up**

Pleasanton residents can drop off their white goods at the PTS for a fee.

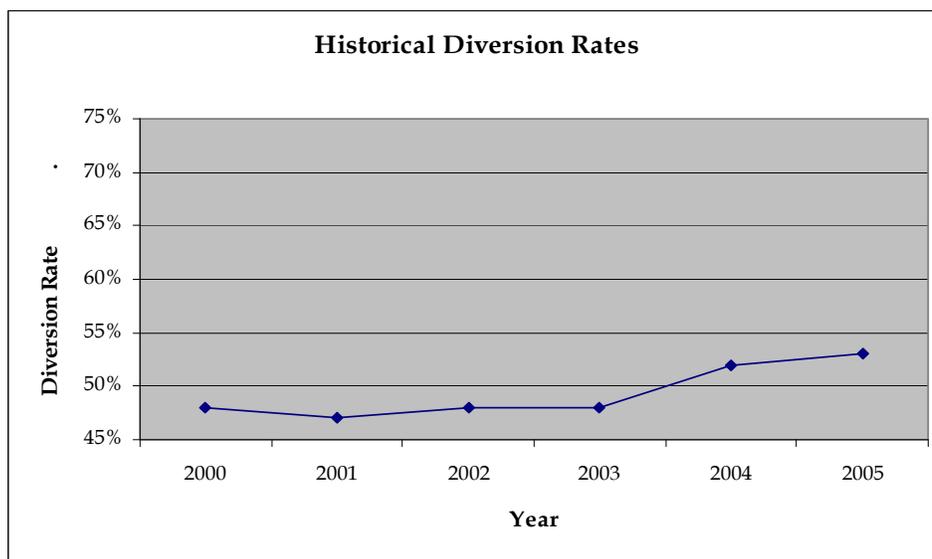
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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

### AB 939 Compliance Status

Pleasanton’s most current diversion rate is 53%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. In 2003, PGS installed an expanded materials recovery facility system. In 2004, PGS implemented weekly single-family organics collection. Pleasanton plans to finalize a C&D debris ordinance by the beginning of 2008. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program*	No	No
Bay-Friendly Landscaping and Gardening	No	No
Environmentally Preferable Purchasing	No	No
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	No	Yes
Climate Action Plan	No	No
Other Comprehensive Green House Gas/ Climate Change Efforts	No	No
Other Sustainability Programs	No	No
Zero Waste Resolutions / Plans	No	No

\* The City has been a participant in, and has provided financial and in-kind assistance to the Program.

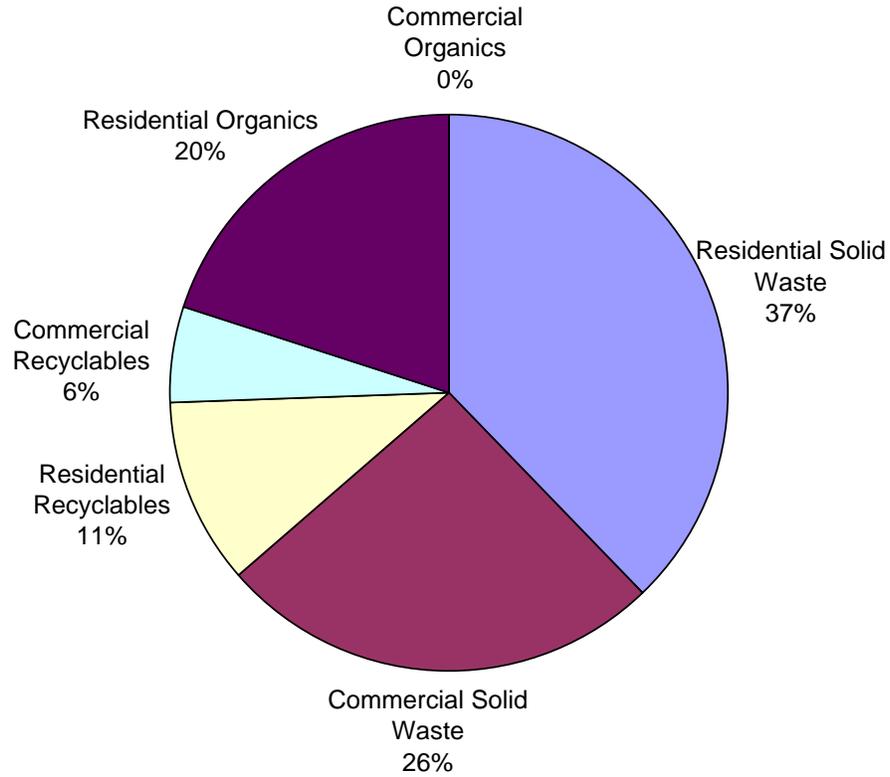
### Future Planning and Programming Needs

Pleasanton has not formally committed to reaching the 75% diversion goal specified in Measure D.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Pleasanton and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages.

However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



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**City of San Leandro**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## **Summary**

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

A portion of the City of San Leandro (San Leandro) is within the Oro Loma Sanitary District, and residents and businesses in that portion of San Leandro receive solid waste, recycling, and organics services through the District’s programs. See the District’s program summary for a description of those programs. This summary contains program descriptions, and data for that portion of the City is served by City-sponsored programs, except as noted. The demographic information contained in this summary is for the entire City, with the exception of population which excludes the area of the City within the District.

Summary features of the programs for San Leandro as listed below.

- Single-family organics collection, including food scraps began in 2002. Commercial organics collection began in July 2007.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Alameda County Industries (ACI) is the exclusive service provider for residential, commercial, drop box solid waste, recycling, organics, and construction and demolition debris collection.
- ACI’s franchise agreement with San Leandro began in 2000 and expires in January 2010.
- Facilities used by San Leandro include ACI’s Aladdin Avenue Transfer Station in San Leandro (Aladdin Ave.), Republic Services’ Vasco Road Landfill near Livermore (Vasco Road), and Allied Waste’s Newby Island Composting Facility in Milpitas (Newby Island).

**Figure1: Summary of Disposal by Sector – 2006\*\***

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	11,565	0	11,565	9%
Residential Multi-Family*	N/A	0	0	0%
Commercial and Drop Box	40,548	0	40,548	33%
Self-Haul and Other	0	70,723	70,723	58%
<b>Total</b>	<b>52,113</b>	<b>70,723</b>	<b>122,836</b>	<b>100%</b>

\*San Leandro’s multi-family tonnage is included with single-family tonnage.

\*\*San Leandro’s tonnages exclude that portion of the City served by the Oro Loma Sanitary District’s program.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	13,300	70%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box	5,616	30%
Self-Haul and Other	0	0%
<b>Total</b>	<b>18,916</b>	<b>100%</b>

\*San Leandro’s multi-family tonnage is included with single-family tonnage.

## Demographics

San Leandro had an estimated population of 81,074<sup>4</sup> in 2006. There are approximately 31,863 households in San Leandro (21,462 single-family, 9,497 multi-family and 904 mobile homes). The Oro Loma Sanitary District provides service to a portion of San Leandro known as L3. The portion of San Leandro served by Oro Loma Sanitary District has a population of 32,430, and 13,731 residential units.<sup>5</sup> The median household income in 2005 was \$55,235. San Leandro has 1,855 business establishments with taxable sales of approximately \$2 billion in 2005. San Leandro’s 13.1 square miles are located in western Alameda County, between the Cities of Hayward and Oakland.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

ACI provides solid waste collection services for San Leandro residents. Solid waste collection service is mandatory. The minimum charge for solid waste service is \$15.71 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by ACI. Backyard and side yard service is available to elderly or disabled residents at no additional charge. Extra solid waste can be collected if bag labels are purchased in advance. The price is \$4.33 per piece; however, ACI may refuse collection of the extra set-out if customer has not pre-purchased bag labels. Figure 3 illustrates the rates for each cart size. Fully-automated trucks are used for collection.

In 2006, 13,300 tons of solid waste, approximately 1.3 pounds per person per day, were collected from single-family and multi-family customers in San Leandro. The residential solid waste is transferred at Aladdin Ave. and disposed of at Vasco Road.

**Figure 3: Container Sizes and Rates**

Cart Size	Rate
20-gallon	\$15.71
32-gallon	\$19.58
64-gallon	\$32.58
96-gallon	\$45.58

<sup>4</sup> San Leandro population is not inclusive of the 22,833 residents living in the Oro Loma Sanitary District.

<sup>5</sup> Email communication with Tom Padia, November 9, 2007. Based on the data from the memorandum of understanding between the Oro Loma Sanitary District and San Leandro regarding service to the portion of the City within the District, and data from Andreea Simion, Administrative Services Manager of the District.

## *Multi-Family*

San Leandro's multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Recycling**

### *Single-Family*

ACI provides weekly, single-stream recycling collection on the same day as solid waste collection. ACI collects the following recyclables: all plastic (#1 - 7); metal cans; glass bottles and jars; aluminum foil (clean); aluminum pans (clean); milk and juice cartons (aseptic containers); scrap metal (small, unusable bakeware/cookware/appliances); newspaper; mixed paper; empty aerosol cans; and cardboard.

ACI uses both semi-automated and fully-automated collection trucks for recycling collection. ACI uses 64-gallon carts and customers are allowed to set out extra cardboard and recyclables next to the cart(s) at no extra charge. Recyclables are taken directly to Aladdin Ave. for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 5,852 tons of recyclable materials, approximately 0.7 pounds per person per day, were collected in the single-family residential recycling program.

### *Multi-Family*

San Leandro's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers may select containers that are comparable to those provided in the commercial recycling program. Multi-family tonnage is reported with either the single-family tonnage, when the building is serviced with carts, or with the commercial tonnage, when the complex is serviced with bins.

## **Residential Organics**

### *Single-Family*

ACI provides weekly organics collection service on the same day as solid waste collection. ACI collects the following organics: plant debris; food scraps; and, food-soiled paper. Palm fronds, sod, dirt rock, and painted or treated wood are excluded from the program.

ACI uses semi-automated trucks for collection. 32-, 64-, and 96-gallon carts are provided by ACI. Branches cannot be longer than four feet or heavier than 50 pounds. The organic materials are transferred at Aladdin Ave. and then composted at Newby Island.

In 2006, 7,448 tons of organics, approximately 0.8 pounds per person per day, were collected through the single-family residential organics program.

## *Multi-Family*

Organics collection service is not offered to multi-family customers in San Leandro at this time.

## **Commercial Programs**

### **Commercial Solid Waste**

ACI provides commercial and drop box solid waste collection service to San Leandro through an exclusive franchise agreement. Customers can choose from: 20-, 32-, 64-, and 96-gallon carts; 1- through 7- cubic yard bins; and, 10- through 22- yard drop boxes. Collection is provided up to six days per week for solid waste. ACI uses a mix of semi- and fully-automated trucks for collection.

Commercial customers may self-haul materials, but all restaurants are required to subscribe to some level of service. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with no frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$19.58/month
Per cubic yard	\$83.83 - \$86.84/month
Drop box per cubic yard	\$7.74 - \$14.08/pull + \$85.70/ton

Solid waste is transferred at Aladdin Ave. and disposed of at Altamont. In 2006, 40,548 tons of solid waste were collected through the commercial and drop box program.

### **Commercial Recycling**

ACI provides commercial recycling collection service to San Leandro through an exclusive franchise agreement. ACI utilizes collection containers and vehicles similar to those provided in the commercial solid waste program. Recyclables collected include paper, cardboard, metal, glass containers, and plastic bottles. Source separated recycling is also available for cardboard.

Commercial customers who subscribe to solid waste service can receive a 96-gallon single-stream recycling cart at no additional cost.

Commercial recyclables are taken directly to Aladdin Ave. for processing. In 2006, 4,105 tons of recyclables were collected through the commercial recycling program.

### **Commercial Organics**

ACI provides commercial organics collection service to San Leandro through an exclusive franchise agreement. Customers may choose from: 64-gallon carts and 20-, 30-, 40-, and 50-

cubic yard drop boxes. ACI uses a mix of semi- and fully-automated trucks for collection. Organics accepted include: plant debris; food-soiled paper; meat; bone; and, dairy.

Organics are transferred at Aladdin Ave. and composted at Newby Island. In 2006, 1,511 tons of organics were collected through the commercial organics program. The commercial organics program began in July 2007, and program data provided here is for the previous commercial plant debris collection program.

## **Construction and Demolition Debris Program**

ACI provides construction and demolition debris (C&D debris) collection services to San Leandro through an exclusive franchise agreement. Customers can choose from 10- through 22-cubic yard drop boxes.

ACI delivers all materials collected under this program directly to the DSTS for processing. The tonnages collected and related diversion rate from the C&D debris program are unknown at this time.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

San Leandro does not currently have a formal program for special events and large venues. Events and venues reported to the CIWMB through the annual report include the Annual Cherry Festival.

### **Bulky Item Collection**

Each year, San Leandro sponsors one on-call curbside collection for single-family customers, and one city-wide drop-off event open to all San Leandro residents. The cost of this program is included in the customer rates. As part of this program, ACI collects the following non-recyclable materials: wood, electronics, appliances, tires, metal and reusable household goods. A two-cubic-yard bin is provided to the customer and everything is collected on a flat bed truck. The tonnage for bulky item collection is recorded, but ACI does not recover the recyclables from the items received.

### **Buyback/Drop-Off Facilities<sup>6</sup>**

San Leandro does not own or operate any of the buyback or drop-off facilities located in the area. Facilities available for use by residents and businesses include the DSTS.

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<sup>6</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

San Leandro collects E-waste and Universal waste at annual events such as the Neighborhood Clean-up Event and America Recycles Day. The City also collects used motor oil placed in one-gallon jugs supplied by ACI. Oil filters can also be recycled if they are placed in plastic zip-locked bags.

## **Household Hazardous Wastes**

The City does not sponsor household hazardous waste collection services beyond those offered by the Alameda County Household Hazardous Waste Program.

## **Member Agency Facility Programs**

ACI provides solid waste and recycling collection services to public facilities. This program was implemented in 2000. The cost of this program is included in the customer rates. San Leandro plans in the near future to add City parks to the list of public facilities receiving recycling service.

## **School Programs**

Waste Management currently provides collection service to all public schools while ACI provides solid waste and recycling collection to all private schools in their service area. The costs for this program are included in the customer rates. Materials collected include: cardboard, paper, plastic bottles, aluminum/steel cans and glass containers. The San Leandro Unified School District is working with Stopwaste.org to bring the "I Recycle at School" program to their district.

## **Seasonal Programs**

Holiday trees are collected during the month of January. Trees must be set out next to the cart and be cut down to smaller than six feet.

## **Used Tires**

Used tires are collected through on-call bulky-item collection and the annual drop-off event.

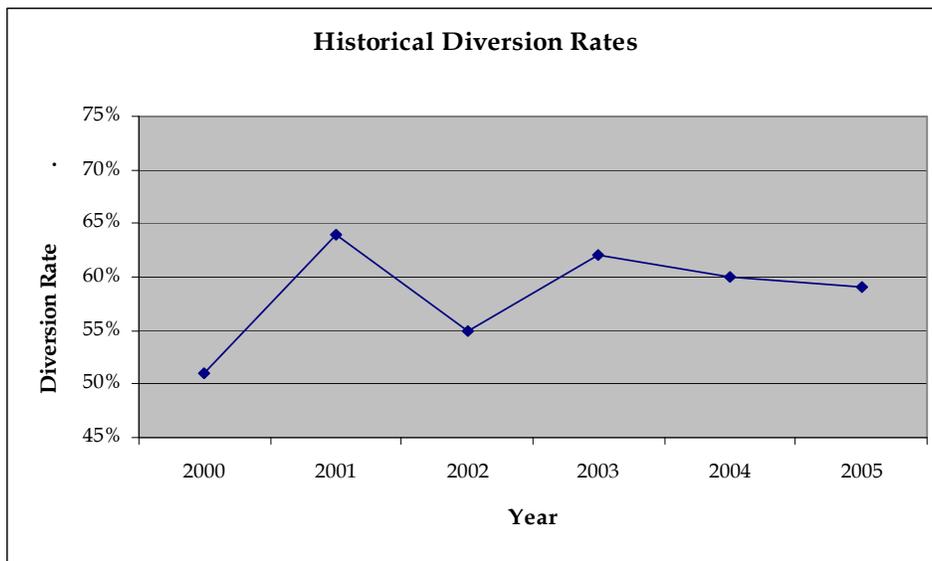
## **White Goods Pick-up**

Large appliances are collected through the on-call bulky-item collection. The costs for this program are included in customer rates.

## **AB 939 Compliance Status**

San Leandro's most current diversion rate is 59%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

Figure 5: CIWMB Diversion Rates from 2000 to 2005



### Sustainability

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

Figure 6: Sustainability Programs/Policies

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program*	No	
Bay-Friendly Landscaping and Gardening	No	
Environmentally Preferable Purchasing	Yes	
Civic Green Building	No	Yes
ICLEI - Local Government for Sustainability Climate Change Baseline Study	No	Yes
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	No	Yes
Other Sustainability Programs	No	No
Zero Waste Resolutions / Plans	No	No

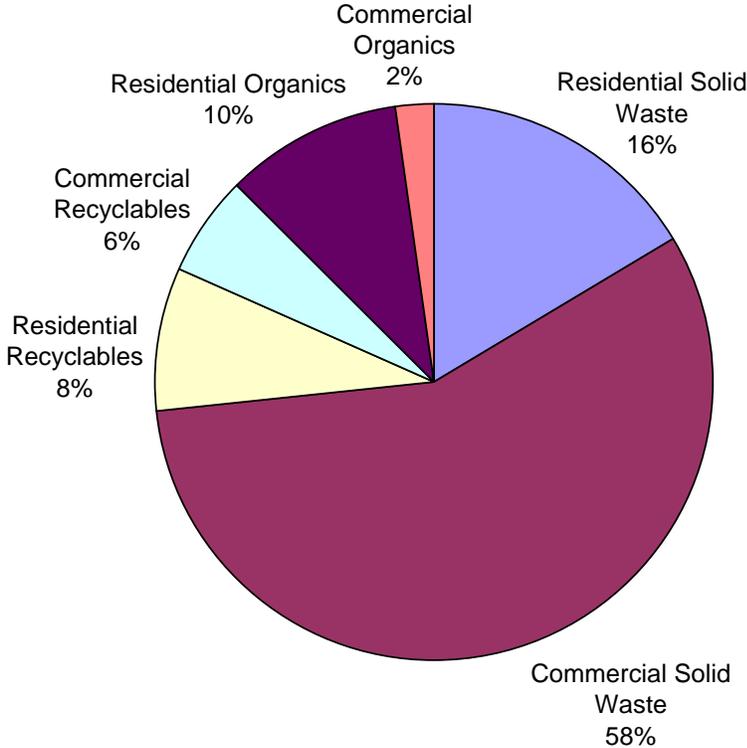
\* The City has been a participant in, and has provided financial and in-kind assistance to the Program.

### Future Planning and Programming Needs

San Leandro has not formally committed to reaching the 75% diversion goal specified in Measure D, but is in the planning stages of adopting a goal in the next year.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in San Leandro and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

Figure 7: Composition of Municipally-Controlled Disposal and Diversion



**City of Union City**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## **Summary**

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the City of Union City (Union City) are listed below.

- Residential and commercial organics collection including food scraps began in 2005.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Allied Waste Services of Alameda County (AWS) is the exclusive service provider for residential, commercial, and drop box solid waste and commercial and drop box recycling collection.
- Tri-CED Community Recycling (Tri-CED) is the exclusive service provider for residential recycling and, as a subcontractor to AWS, residential organics recycling.
- Union City’s franchise agreements with AWS and Tri-CED began in July 2005 and expire in June 2015.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by Union City include the Fremont Recycling and Transfer Station in Fremont (FRTS), Waste Management’s Tri-Cities Recycling and Disposal Facility in Fremont (TCRDF), Tri-CED’s Community Recycling Center in Union City (Tri-CED MRF), and Allied Waste’s Newby Island Recyclery and Composting Facility in Milpitas (Newby Island).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	12,294	0	12,294	20%
Residential Multi-Family	3,044	0	3,044	5%
Commercial and Drop Box	29,617	0	29,617	48%
Self-Haul and Other	0	16,244	16,244	27%
<b>Totals</b>	<b>44,955</b>	<b>16,244</b>	<b>61,199</b>	<b>100%</b>

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	15,164	88%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box**	2,151	12%
Self-Haul and Other**	0	0%
<b>Totals</b>	<b>17,315</b>	<b>100%</b>
* Residential multi-family diversion is included in single-family tonnage.		
** Drop box and self-haul diversion is included in commercial tonnage.		

**Demographics**

Union City had a population of 71,152 in 2006. There are approximately 20,019 households in Union City (15,158 single-family, 3,942 multi-family, and 919 mobile homes). The median household income in 2005 was \$77,542. There are approximately 1,075 business establishments in Union City with taxable sales of approximately \$715 million in 2005. Union City includes 18.8 square miles in southern Alameda County, adjacent to the Cities of Fremont and Newark.

**Residential Programs**

**Residential Solid Waste**

*Single-Family*

AWS provides solid waste collection services for Union City residents. Solid waste collection service is mandatory for residents. The minimum charge for refuse service is \$25.93 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by AWS. Customers can purchase 32-gallon overage bags from AWS for \$17.23 per bag. Figure 3 illustrates the rates for each container size. Fully-automated trucks are used for collection.

In 2006, 15,338 tons of solid waste, approximately 1.2 pounds per person per day, were collected from single-family and multi-family customers in Union City. 12,294 tons of solid waste were collected from single-family customers in 2006. Residential solid waste is transferred to FRTS and then disposed of at the TCRDF. After the TCRDF reaches capacity, residential solid waste will be transferred from FRTS to Altamont.

**Figure 3: Container Sizes and Rates**

<b>Cart Size</b>	<b>Single-Family Rate</b>	<b>Multi-Family Rate</b>
Mini can	\$25.93	\$19.85
1 Can	\$30.53	\$22.94
2 Can	\$61.07	\$45.89
3 Can	\$91.60	\$68.83

*Multi-Family*

Union City’s multi-family refuse collection service includes all of the same features as the single-family refuse collection program. Figure 3 above illustrates the rates each container size and the differences between single-family and multi-family rates. Multi-family rates are lower than single-family rates because multi-family customers do not receive organics collection service.

## **Residential Recycling**

### *Single-Family*

Tri-CED performs weekly, single-stream recycling collection on the same day as solid waste collection. Tri-CED collects the following recyclables: aluminum foil; furniture (plastic webbing removed); pans (clean); metal cans and lids; metal pots and pans; glass bottles and jars; mixed paper; newspaper; cardboard; paper milk cartons; aseptic beverage boxes; egg cartons; narrow-neck and wide-mouthed plastic containers and tubs (#1 - 7); used motor oil and filters; and, empty aerosol cans. Tri-CED will expand their single-family recycling by accepting household batteries starting in Fall of 2007.

Tri-CED uses fully-automated trucks for recycling collection, and 35-, 64-, and 96-gallon carts. Recyclables are taken directly to the Tri-CED MRF. The cost for recycling collection service for single-family homes is \$7.52 per month per account.

In 2006, 7,903 tons of recyclables, approximately 0.6 pounds per person per day, were collected through the single-family and multi-family residential recycling program.

### *Multi-Family*

Union City's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers can request shared 64- or 96-gallon recycling containers or larger front-load or drop box recycling bins (provided and serviced by AWS).

## **Residential Organics**

### *Single-Family*

Tri-CED provides weekly organics collection service on the same day as solid waste collection. Tri-CED collects the following organics: vegetables; fruit; peelings; food-soiled paper; meat; bones; bread; coffee grounds; coffee filters; egg shells; pasta; rice; dairy; milk cartons and paper products (bags, cups, napkins, towels, uncoated plates, ice cream cartons, pizza boxes, tea bags, paper restaurant take-out containers); grass clippings; leaves; pruning (up to six inches in diameter and less than four feet long); wood chips; and, unpainted and uncoated lumber (up to four feet in length).

Tri-CED uses fully-automated trucks for collection. 96-gallon carts are provided by Tri-CED. 20-, 35- and 64-gallon carts are available upon request. Additional plant debris can be set out, but must be placed in bundles no longer than four feet in length, tied with string on both ends, and weigh no more than 40 pounds. Residents may schedule additional yard debris pick-up as part of the bulky item collection program. The cost of organics collection service is included in the residential rates.

In 2006, 7,261 tons of organics, approximately 0.6 pounds per person per day, were collected through the single-family residential organics program.

### *Multi-Family*

Organics collection service is not offered to multi-family customers in Union City at this time.

## **Commercial Programs**

### **Commercial Solid Waste**

AWS provides commercial and drop box solid waste collection service to Union City through an exclusive franchise agreement. Customers can choose from: 32-, 64-, and 96-gallon carts; 1-through 7-cubic yard bins; and, 6- through 40-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. AWS uses a mix of fully- and semi-automated trucks for collection.

Commercial customers may self-haul materials, but all properties must subscribe to some level of service. Commercial rates for carts, bins, drop boxes, and compactors follow a uniform rate structure with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Refuse Collection**

Measurement	Rate
32-gallon cart	\$25.70/month
Per cubic yard	\$80.92 - \$107.85/month
Drop box per cubic yard	\$21.35 - \$50.46 /pull

Solid waste is transferred at FRTS and disposed of at the TCRDF. After the TCRDF reaches capacity, solid waste will be transferred at FRTS and disposed of at Altamont. In 2006, 29,617 tons of solid waste were collected through the commercial and drop box program.

### **Commercial Recycling**

AWS and Tri-CED provide commercial recycling collection service to Union City through exclusive franchise agreements. Tri-CED services commercial accounts preferring 35-, 64-, or 96-gallon carts to meet their recycling needs. AWS provides service to commercial accounts needing larger containers (i.e., 1- through 7-cubic yard bins and, 6- through 40-cubic yard drop-boxes) for recycling collection. Tri-CED uses fully-automated trucks and AWS uses semi-automated trucks for commercial recycling collection. The single-stream commercial recycling

program accepts: aluminum foil and pans (clean); metal cans and lids; glass bottles and jars; mixed paper; newspaper; cardboard; paper milk cartons; aseptic beverage boxes; egg cartons; and, narrow-neck and wide-mouthed plastic containers and tubs (#1 - 7).

Commercial recycling rates are set at 25% of comparably-sized solid waste collection service rates.

In 2006, 1,018 tons of recyclable materials were collected through the commercial recycling program.

## **Commercial Organics**

AWS provides commercial organics collection service to Union City through an exclusive franchise. Customers can choose from 1- through 7-cubic yard bins and 6- through 40-cubic yard drop boxes for collection. AWS uses a mix of fully- and semi-automated trucks for collection.

Union City's franchise agreement with AWS required implementation of a commercial organics collection program upon implementation; however, AWS has yet to implement the program. The program is currently expected to begin in the 2007-08 rate period. Collection is expected to be available up to six days per week.

Commercial organics collection is provided at a 25% discount relative to solid waste rates for comparable service levels.

Commercial organics are taken directly to Newby Island for composting. In 2006, 752 tons of plant debris materials were collected through the commercial organics program.

## **Construction and Demolition Debris Program**

Union City passed a construction and demolition debris (C&D debris) ordinance that was approved by their City Council in 2002 with an understanding that implementation would be delayed until the new franchise agreement went into effect in 2005. Staff is currently working to implement the ordinance.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The Century Theatres in Union City is the only large venue that qualifies under AB 2176. The City and Stopwaste.org's StopWaste Partnership Program are working with the facility's management in maximizing recycling opportunities. A recent assessment conducted by the City and Stopwaste identified a waste reduction potential of 45% (through recycling and waste prevention).

## **Bulky Item Collection**

Union City sponsors a semi-annual on-call collection program. Residents contact AWS customer service to request a collection. The material must be placed at curbside on the designated date agreed to by AWS and the customer. AWS will send a rear loader or flat bed truck to pick up the items. The cost of this program is included in the residential rates. Additional collections are available to residents for a charge of \$57.59 for a pick-up of two items, \$19.20 for each additional item in addition to that fee, and \$44.79 for each appliance containing refrigerant. Materials accepted through this program include household appliances, furniture, mattresses, carpeting, tires (up to 4), yard debris, clean unfinished wood, etc. No materials are currently being diverted from this program.

## **Buyback/Drop-Off Facilities<sup>4</sup>**

Tri-CED Community Recycling operates a buyback/drop-off program at 33377 Western Avenue, Union City, CA, diverting 1,149 tons of material in 2006. The funding for this program is provided by AB 2020 beverage container recycling fees and recyclable material market values. Tri-CED also accepts electronic waste at the recycling center, free of charge.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

Tri-CED provides curbside collection of used motor oil and filters for single-family and multi-family residences. In addition to free year-round drop-off of E-waste at Tri-CED's Union City recycling center, the City hosts two E-waste collection events in the community each year. Curbside collection of batteries is also being considered.

## **Household Hazardous Wastes**

The City does not sponsor household hazardous waste collection services beyond those offered by the Alameda County Household Hazardous Waste Program.

## **Member Agency Facility Programs**

AWS provides solid waste and recycling collection to public facilities at no additional cost.

## **School Programs**

Allied Waste provides solid waste service to Union City Schools and recycling service through its subcontractor, Tri-CED. The New Haven Unified School District is solely responsible for procurement of refuse and recycling services. Union City is providing technical assistance and funding support to the schools to assist with implementation and improvements on their recycling programs.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## Seasonal Programs

Curbside collection of holiday trees is available from December 25 through January 31 for all residential premises is part of the organic material collection services. Trees may also be dropped off at Tri-CED's recycling center in Union City.

## Used Tires

AWS provides a semi-annual on-call collection program in which up to four tires may be set out curbside.

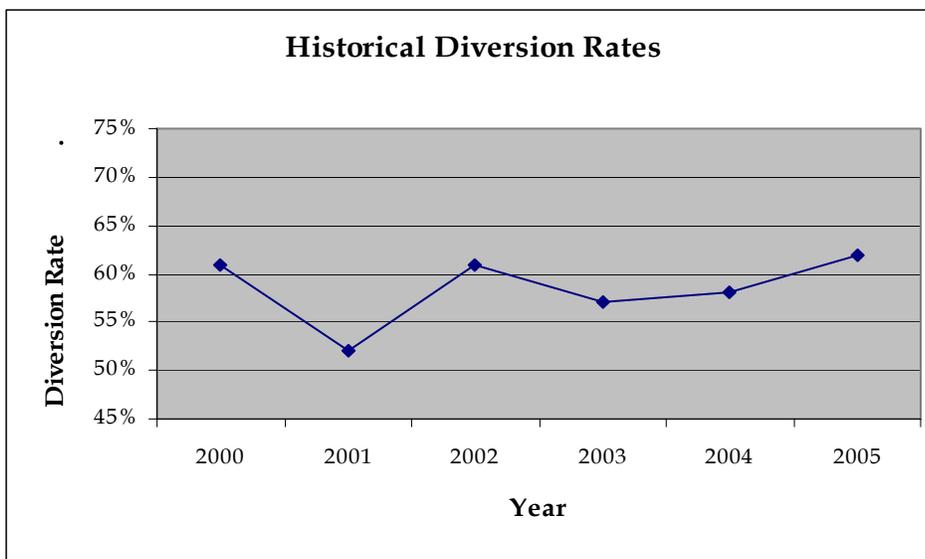
## White Goods Pick-up

Large appliances are included in the annual pick-up program. The cost of this program is included in the residential rates.

## **AB 939 Compliance Status**

Union City's most current diversion rate is 62%, as approved by the State. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. The most significant changes in the past five years have been: the change of haulers from Waste Management of Alameda County to AWS; switching from semi-automated to fully automated containers; the implementation of single-stream recycling; and the implementation of curbside food scraps collection, all occurring in July 2005. Figure 5 shows Union City's diversion rate over time.

**Figure 5: CIWMB Diversion Rates from 2000 to 2005**



**Sustainability**

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by City staff.

**Figure 6: Sustainability Programs/Policies**

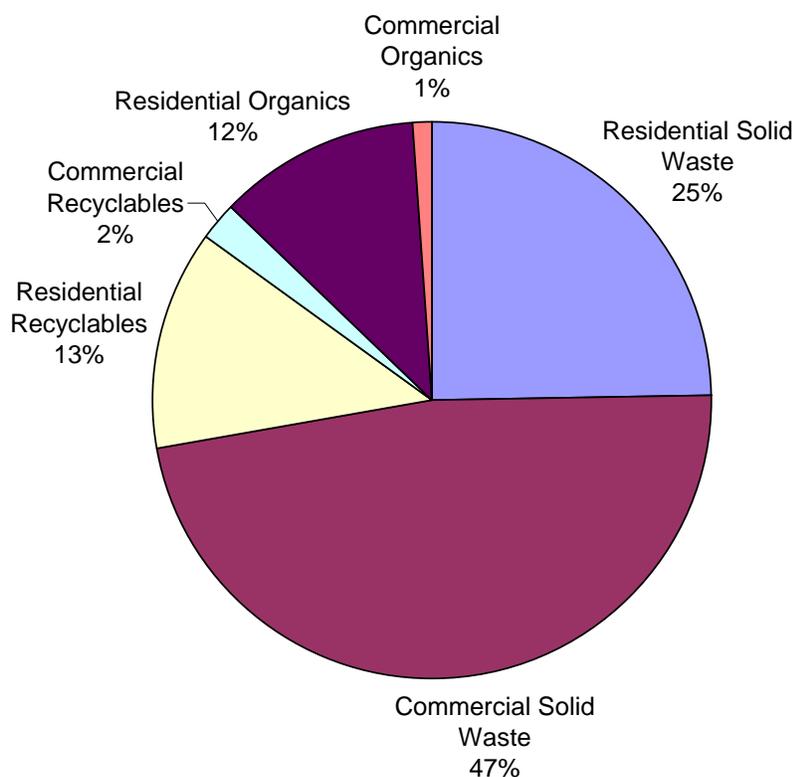
Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening	Yes	
Environmentally Preferable Purchasing	No	Yes
Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	Yes	
Climate Action Plan	No	Yes
Other Comprehensive Green House Gas/ Climate Change Efforts	No	Yes
Other Sustainability Programs	Yes	
Zero Waste Resolutions / Plans	Yes	

**Future Planning and Programming Needs**

Union City is committed to reaching the 75% diversion goal specified in Measure D. The City has adopted a resolution establishing a goal of 75% reduction of waste going to landfill by 2010. The City is focusing on increasing diversion of food waste from businesses and residences and increasing recycling at multi-family complexes. Waste in packaging is also being targeted.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in Union City and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

**Figure 7: Composition of Municipally-Controlled Disposal and Diversion**



**Castro Valley Sanitary District**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## Summary

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

Summary features of the programs for the Castro Valley Sanitary District (CVSD) are listed below.

- Residential organics collection has included food scraps for single-family dwellings since 2001.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators.
- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential solid waste, recycling, and organics collection; commercial solid waste collection; and, drop box solid waste collection.
- CVSD’s franchise agreement with WMAC began in May 2001 and expires in April 2009.
- Commercial recycling, organics, and construction and demolition debris services are provided on an open-market basis.

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<sup>1</sup> The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Facilities used by CVSD include Waste Management’s Davis Street Transfer Station in San Leandro (DSTS), Waste Management’s Altamont Landfill near Livermore (Altamont), and Grover Landscaping Services Composting Facility in unincorporated Stanislaus County (Grover).

**Figure 1: Summary of Disposal by Sector – 2006**

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	13,998	0	13,998	50%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	10,538	0	10,538	38%
Self-Haul and Other	0	3,215	3,215	12%
<b>Total</b>	<b>24,536</b>	<b>3,215</b>	<b>27,751</b>	<b>100%</b>

\* CVSD’s multi-family tonnage is included with single-family tonnage.

**Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006**

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	14,387	90%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box**	1,560	10%
Self-Haul and Other**	0	0%
<b>Total</b>	<b>15,947</b>	<b>100%</b>

\* CVSD’s multi-family tonnage is included with single-family tonnage.  
 \*\* Commercial, drop box, and self haul tons are not regulated by CVSD, and comprehensive tonnage data is not available.

## Demographics

CVSD had an estimated population of 55,000 in 2006. There are approximately 15,080 households in CVSD (11,301 single-family and 3,779 multi-family homes). The median

household income in 2005 was \$58,546. CVSD has 440 business establishments. The CVSD is comprised of 9.3 miles in central Alameda County and makes up approximately 31% of the area of Unincorporated Alameda County.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for CVSD residents. Solid waste collection service in CVSD is mandatory. The minimum charge for solid waste service is \$12.19 per month for a 20-gallon cart. 20-, 32-, 64-, and 96-gallon carts are provided by WMAC. Backyard and side yard service is available to elderly or disabled residents at no additional charge. Backyard and side-yard services are provided to any customer requesting such service for an additional \$9.84 per month. Customers may pay \$0.45 per gallon for extra container service on their regularly scheduled collection day or may purchase a pack of five overage bags for \$12.32, plus the cost of shipping. Extra collection on days other than the customer’s regularly scheduled collection day costs \$13.92 per service. Figure 3 illustrates the rates for each container size. Fully-automated trucks are used for collection.

In 2006, 13,998 tons of solid waste, approximately 1.4 pounds per person per day, were collected from single-family and multi-family dwellings in CVSD. Residential solid waste from CVSD is transferred at the DSTS and then disposed of at Altamont.

**Figure 3: Container Sizes and Rates**

Cart Size	Rate
20-gallon	\$12.19
32-gallon	\$18.89
64-gallon	\$32.81
96-gallon	\$46.74

#### *Multi-Family*

CVSD’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the single-family residential tonnage.

### Residential Recycling

#### *Single-Family*

WMAC provides weekly, single-stream recycling collection on the same day as solid waste collection. WMAC collects the following recyclables: #1 and #2 plastic containers (any shape);

#1-#7 narrow neck plastics; #2, 4, and 5 wide-mouth plastics; aluminum, tin, and steel cans; empty aerosol cans; glass jars and bottles; cardboard; and, mixed paper.

WMAC uses fully-automated trucks for recycling collection. Customers are allowed unlimited recycling collection service as long as materials fit into company-provided carts. Contamination is treated as a solid waste overage at the rate of \$3.48 per event. Recyclables are taken directly to the DSTS for processing. The cost of recycling collection service is included in the residential rates.

In 2006, 6,978 tons of recyclables, approximately 0.7 pounds per person per day, were collected through the single-family and multi-family residential recycling program.

### *Multi-Family*

CVSD's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the single-family residential tonnage.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection. WMAC collects the following organics: food; food-soiled papers; waxed paper and cartons; coffee grounds and filters; tea leaves and bags; dairy products; leaves; grass; branches; flowers; roots; and, uncoated wood chips.

WMAC uses both semi-automated and fully-automated trucks for collection. 32-, 64-, or 96-gallon carts are provided by WMAC. Organics are transferred at the DSTS and then composted at Grover. The cost of organics collection service is included in the residential rates.

In 2006, 7,409 tons of organics, approximately 0.7 pounds per person per day, were collected through the single-family and multi-family residential organics program.

### *Multi-Family*

CVSD's multi-family organics collection program includes all of the same features as the single-family organics collection program. Multi-family customers who receive solid waste collection service in carts are included in this program.

## **Commercial Programs**

### **Commercial Solid Waste**

WMAC provides commercial and drop box collection service to CVSD through an exclusive franchise agreement. Customers can choose from: 32-, 64-, and 96-gallon carts; 1 through 7 cubic yard bins; and, 6-, 14-, 20-, 30-, and 40-cubic yard drop boxes and compactors. Collection

is provided up to five days per week for solid waste. WMAC uses a mix of semi- and fully-automated trucks for collection.

Commercial customers may self-haul materials. Commercial rates for carts, bins, compactors, and drop boxes are regressive with a frequency surcharge. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	Rate
32-gallon cart	\$18.89/month
Per cubic yard	\$63.64 - \$79.61/month
Drop box per cubic yard	\$23.08 - \$34.27/pull

Solid waste is transferred at the DSTS and disposed of at Altamont. In 2006, 10,538 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

Commercial recycling service is not regulated in CVSD and several companies provide commercial recycling collection, including WMAC. WMAC utilizes collection containers and vehicles similar to those provided in the commercial solid waste program. Materials collected by WMAC are consistent with those accepted in the residential recycling program.

WMAC takes recyclables directly to the DSTS for processing. Other transfer stations and recyclables processing facilities are used by other collection companies. In 2006, 1,560 tons were collected by WMAC through their commercial and drop box recycling program. Tons associated with collection by other commercial recycling collection companies are not reported to CVSD.

**Commercial Organics**

Commercial organics service is not regulated in CVSD and several companies provide commercial organics collection, including WMAC. Organics collected include: food scraps; wood; compostable paper; fat; grease; dry and semi-dry bakery products; compostable plastics; and, plant debris.

The transfer stations and processing facilities used vary depending upon the collection company.

**Construction and Demolition Debris Program**

WMAC provides limited, non-exclusive construction and demolition debris (C&D debris) collection services, which includes all mixed C&D debris materials.

WMAC delivers C&D debris directly to the DSTS for processing. In 2006, WMAC collected 1,767 tons of C&D debris under this program.

## **Other Recycling Programs**

### **AB 2176 Programs - Special Events and Large Venues**

The CVSD currently has no large events or venues that meet the requirements set by AB 2176.

### **Bulky Item Collection**

Each year the CVSD sponsors one on-call curbside pick-up for each residential customer. The cost of the program is included in customer rates. Items accepted include: up to two cubic yards (3'x3'x6') of bagged, boxed, bundled or contained trash (approx. 16 bags of trash), including bundled yard waste; up to three large household furniture items; up to four car or light truck tires (no rims); and, up to three large household appliances. In 2006 there were 2,787 pick-ups yielding 586 appliances, 60 tires, 216 electronic units, and 536 tons of refuse.

### **Buyback/Drop-Off Facilities<sup>4</sup>**

The CVSD does not own or operate any of the buyback or drop-off facilities located in the area. There is one buyback and drop-off facility available in the area. TOMRA Pacific Inc., #7075, 3443 Castro Valley Boulevard, Castro Valley, is available for use by residents and businesses of the CVSD.

### **E-Waste, Universal Waste, and/or Used Oil Collection**

WMAC and other E-waste recyclers offer collection of Universal waste (e.g. batteries and fluorescent light bulbs). CVSD sponsored an event in 2007 that resulted in more than 33 tons of diverted material.

### **Household Hazardous Wastes**

CVSD residents and businesses have access to the Alameda County Household Hazardous Waste Program that collects latex paint, used motor oil and filters, brake, transmission and hydraulic fluids, crankcase and differential oils, and lubricating oils from vehicles. The County site used by CVSD residents and businesses serves 15,500 households. There is no HHW collected in the free, on-call bulky waste collection.

### **Member Agency Facility Programs**

WMAC provides solid waste and recycling collection to public facilities at no added charge.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

## School Programs

WMAC provides solid waste, recycling, and organics collection to the CVSD schools as part of their exclusive franchise agreement. They collect mixed recyclables (paper, glass, cardboard, plastics, aluminum and steel cans) and mixed organics. Diverted tonnage was not reported by WMAC. In Fall 2007 the CVSD plans to implement the Green Ribbon Schools program to revitalize waste reduction and recycling programs in schools.

## Seasonal Programs

Holiday trees are collected on each customer's regularly scheduled collection day during the first two weeks in January. Trees may not have any stands, tinsel, or other decorations on them when they are set out for collection. Flocked trees are collected but not composted.

## Used Tires

Used tires are collected through the annual on-call bulky-item collection.

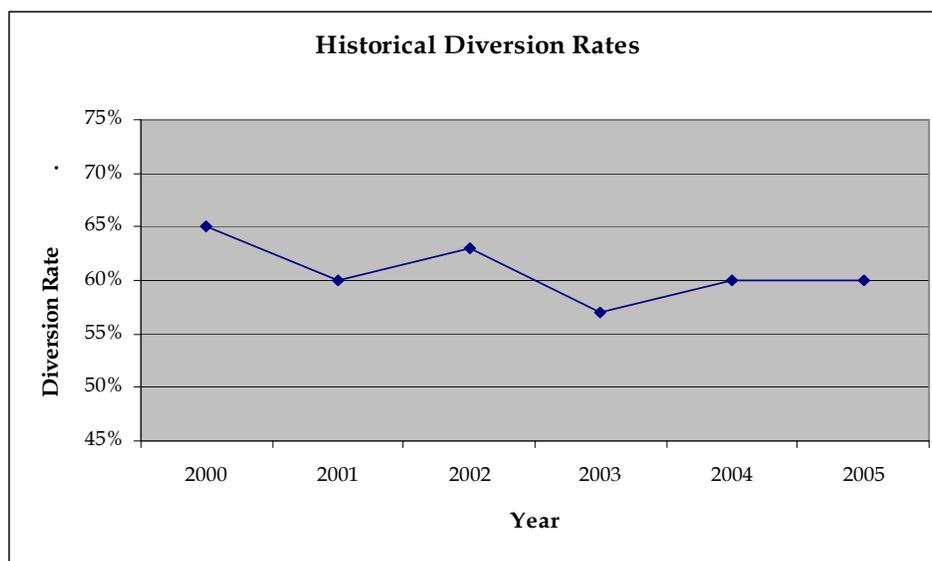
## White Goods Pick-up

Large appliances are collected through the annual on-call bulky-item collection.

## **AB 939 Compliance Status**

The CVSD's most current diversion rate, as approved by the State, is 60%. No changes have been made to the Source Reduction and Recycling Element (SRRE) or Household Hazardous Waste Element (HHWE) to date. Figure 5 shows the diversion rate over time.

**Figure 5: CIWMB Diversion Rates from 2000 to 2005**



**Sustainability**

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by District staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	Yes	
Bay-Friendly Landscaping and Gardening*	No	
Environmentally Preferable Purchasing	Yes	
Civic Green Building	No	N/A
ICLEI - Local Government for Sustainability Climate Change Baseline Study**	Yes	
Climate Action Plan	No	N/A
Other Comprehensive Green House Gas/ Climate Change Efforts	No	N/A
Other Sustainability Programs	No	N/A
Zero Waste Resolutions / Plans	No	N/A

\*The District has implemented Bay-friendly practices but the Board has not adopted a formal policy.

\*\* Implemented through the County.

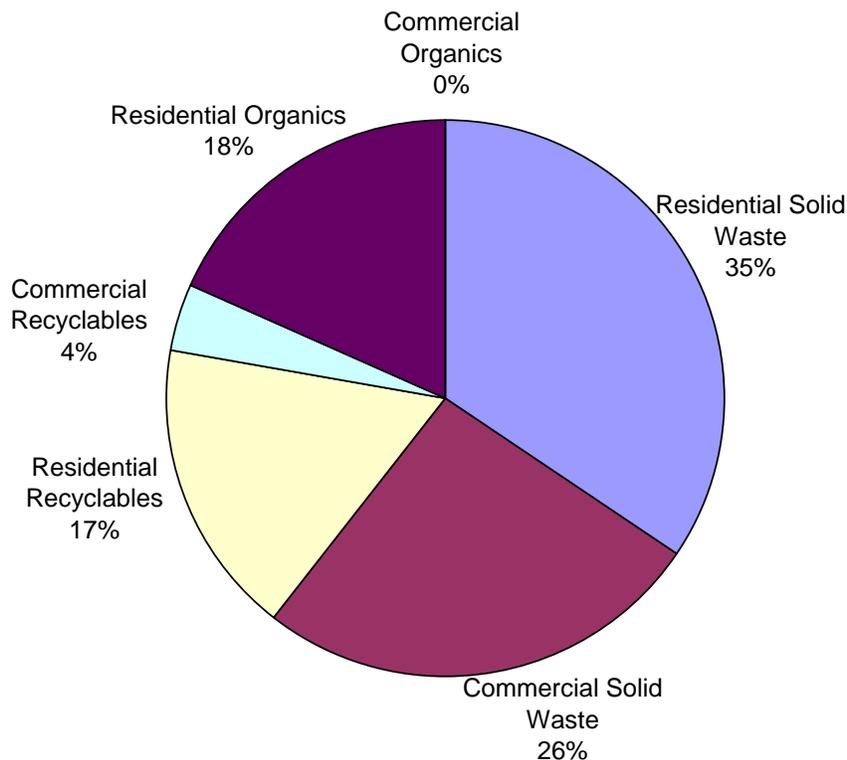
**Future Planning and Programming Needs**

The CVSD is committed to reaching the 75% diversion goal specified in Measure D. They have identified the following potential barriers to reaching the goal: bulky furniture and plastics; brown goods not recycled as E-waste; and, public perceptions of food scrap recycling. In order to reach the goal, the CVSD plans to create and/or implement the following programs: multi-

family single-stream and food scrap recycling; Universal waste (batteries) collection; commercial single-stream and food scrap recycling; and, single-stream and food scrap recycling at CVSD schools.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in the CVSD and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

**Figure 7: Composition of Municipally-Controlled Disposal and Diversion**



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**Oro Loma Sanitary District**  
**Alameda County Source Reduction and Recycling Board**  
**Program Assessment**  
**Member Agency Profiles**

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## **Summary**

This member agency program summary is one of 16 prepared for the Alameda County Source Reduction and Recycling Board as part of the Program Assessment, or Measure D “Five Year Audit” (Report) conducted by the HF&H Consultants, LLC consultant team.<sup>1</sup> The program summaries are available electronically on the Agency’s website.<sup>2</sup>

The primary source of information for each program summary was a detailed survey completed between April and August 2007 by member agency, and in some cases service provider staff.<sup>3</sup> All annual data contained in the summaries is as of December 31, 2006, and programs are summarized as of the close of 2006, except for subsequent, pending, or planned changes as noted.

The Oro Loma Sanitary District (District) includes a portion of unincorporated Alameda County, and portions of the cities of Hayward and San Leandro. These three areas of the District receive solid waste, recycling and organics services through the District’s programs, with one exception. Hayward provides residential recycling throughout the City. This summary contains program descriptions and data for District-sponsored programs, unless otherwise noted. The demographic information contained in this summary is for the entire District, including portions of Hayward and San Leandro.

Summary features of the programs for the District are listed below.

- Residential and commercial organics collection programs do not include food scraps and the District does not plan to add these materials to the program.
- Single-stream collection of recyclables.
- 20-gallon garbage cart for low-volume residential generators

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<sup>1</sup>The team included HF&H Consultants, LLC, Kies Strategies, Skumatz Economic Research Associates, and Environmental Planning Consultants.

<sup>2</sup> Summaries were prepared for the 14 cities and 2 sanitary districts represented by the Board, but not for the remaining unincorporated County area due to its small residential and commercial customer base.

<sup>3</sup> Board staff and the consultant team wish to express their gratitude for the efforts of all member agency and service provider staff that contributed to development of the program summaries. The surveys used to compile the summaries were extensive in both length and content; development of the comparative member agency material presented in the main report would not have been possible without their assistance.

- Waste Management of Alameda County (WMAC) is the exclusive service provider for residential solid waste and organics collection; commercial solid waste collection; drop box solid waste collection; and construction and demolition debris (C&D debris) drop box collection. Residential recycling for the Hayward portion (L2) of the District is provided by TriCED under contract to Hayward.
- The District’s current franchise agreement with WMAC began in September 1997 and expires in August 2012.
- Commercial recycling collection services are provided by several companies on a non-exclusive basis but only WMAC may charge for service.
- Commercial organics collection service is provided on an open-market basis.
- Facilities used by the District include Waste Management’s Davis Street Transfer Station (DSTS) in San Leandro and Waste Management’s Altamont Landfill near Livermore (Altamont).

**Figure 1: Summary of Disposal by Sector – 2006\*\***

Sector	Franchised Disposal (in tons)	Non-Franchised Disposal (in tons)	Total Disposal (in tons)	Total Disposal (%)
Residential Single-Family	27,524	0	27,524	40%
Residential Multi-Family*	N/A	0	N/A	0%
Commercial and Drop Box	34,741	0	34,741	51%
Self-Haul and Other	0	5,886	5,886	9%
<b>Total</b>	<b>62,265</b>	<b>5,886</b>	<b>68,151</b>	<b>100%</b>
*The District’s multi-family tonnage is included with commercial tonnage.				
**The District’s tonnage includes tonnage from the portions of Hayward and San Leandro that are served through the District.				

Figure 2: Summary of Municipally-Controlled Diversion by Sector – 2006

Sector	Total Diversion (in tons)	Total Diversion (%)
Residential Single-Family	21,322	78%
Residential Multi-Family*	N/A	0%
Commercial and Drop Box**	5,886	22%
Self-Haul and Other	N/A	0%
<b>Total</b>	<b>27,208</b>	<b>100%</b>
<p>* Multi-family recycling tonnage is included in the single-family diversion tonnage.                      ** Drop box recycling tonnage is not reported to the District.</p>		

## Demographics

The District had an estimated population of 139,847 in 2006. There are approximately 45,123 households in the District (28,820 single-family, 15,026 multi-family, and 1,277 mobile homes). The District has approximately 1,216 business establishments. The District includes approximately 13 square miles. The District is comprised of three areas, titled L1, L2, and L3. L1 includes unincorporated areas of Alameda County such as San Lorenzo, Ashland, and Cherryland, with 19,497 accounts. L2 includes areas of the City of Hayward, with 2,750 accounts. L3 includes areas of the City of San Leandro, with 13,731 residential and 285 commercial/industrial accounts.

## Residential Programs

### Residential Solid Waste

#### *Single-Family*

WMAC provides solid waste collection services for District residents. Solid waste service in the District is mandatory for residents. For L1 and L2, the minimum charge for solid waste collection is \$5.46 per month for a 20-gallon cart. For L3, the minimum charge for solid waste collection is \$6.20. All service areas use 20-, 32-, 64-, and 96-gallon carts provided by WMAC. Backyard and side yard service is available to elderly and disabled customers at no additional cost. Backyard and side yard solid waste service is available to all other residents for an additional \$6.00 per month. Additional solid waste set out on regular service days is collected at a minimum rate of \$3.42 per 32-gallon equivalent in service areas L1 and L2, and \$3.89 per 32-gallon equivalent in service area L3. Additional solid waste set out on days other than the

scheduled collection day is collected at a minimum rate of \$10.83 per 32-gallon equivalent in service areas L1 and L2, and \$12.31 per 32-gallon equivalent in service area L3. The volume of the extra solid waste set-out is estimated by the driver. Customers also have the option of purchasing 32-gallon pre-paid bags at a cost of \$2.60 per bag in service areas L1 and L2, and \$2.95 per bag in service area L3. Figure 3 illustrates the rates for each container size in each service area. Semi-automated trucks collect solid waste.

In 2006, 27,524 tons of solid waste, approximately 1.1 pounds per person per day, were collected from single-family customers in the District. Residential solid waste is transferred at the DSTS and then disposed of at Altamont.

**Figure 3: Container Sizes and Rates**

Cart Size	L1 and L2 Rate	L3 Rate
20-gallon cart	\$5.46/month	\$6.20/month
32-gallon cart	\$10.92/month	\$12.41/month
64-gallon cart	\$21.84/month	\$24.82/month
96-gallon cart	\$32.76/month	\$37.23/month

*Multi-Family Solid Waste*

The District’s multi-family solid waste collection program includes all of the same features as the single-family solid waste collection program. Multi-family customers may select containers that are comparable to those provided in the commercial solid waste program. Multi-family tonnage is reported with the commercial tonnage.

**Residential Recycling**

*Single-Family*

WMAC provides bi-weekly single-stream recycling collection on the same day as solid waste collection for service areas L1 and L3. For service area L2 (City of Hayward), Tri-CED provides recycling collection instead of WMAC. WMAC collects the following recyclables: newspaper; mixed paper; junk-mail; catalogs; phone books; paper bags; egg cartons; cereal and shoe boxes; cardboard; steel, tin, and aluminum cans; empty aerosol cans; glass bottles and jars; any color plastic containers (#1 - 2); and, narrow neck plastic containers (#3 - 7).

WMAC uses fully-automated trucks for recycling collection. Customers use 32-, 64-, and 96-gallon carts. Recyclable materials are taken directly to the DSTS for processing. Recycling collection is provided to residential customers for \$1.75 per month, collected along with property taxes.

In 2006, 9,906 tons of recyclable materials, approximately 0.4 pounds per person per day, were collected through the single-family and multi-family recycling program.

## *Multi-Family*

The District's multi-family recycling collection program includes all of the same features as the single-family recycling collection program. WMAC provides 1- through 7-cubic yard bins to multi-family recycling customers who require bin service. Multi-family customers are charged on a per unit basis for cart service on their property taxes at a rate of \$1.75 per taxable unit per month. Multi-family recycling tonnage is reported with the single-family residential tonnage.

## **Residential Organics**

### *Single-Family*

WMAC provides weekly organics collection service on the same day as solid waste collection for service areas L1, L2 and L3. WMAC collects plant debris except: cactus or palm tree branches; fruit which is not attached to branches; and branches larger than four feet long or six inches wide.

WMAC uses semi-automated trucks for collection. 32-, 64-, and 96-gallon carts are provided by WMAC. All organic materials must be placed inside the wheeled carts. Overages are collected at the same rate as extra garbage service. Organics are transferred at the DSTS and then used as alternative daily cover (ADC) at Altamont or composted at Grover. Approximately 60% of the organics are composted and 40% is used as ADC. Organics collection is provided to single-family customers for an additional \$2.85 per month.

In 2006, 11,416 tons of organics, approximately 0.4 pounds per person per day, were collected in the single-family and multi-family residential organics program.

### *Multi-Family*

The District's multi-family organics collection program includes all of the same features as the single-family organics collection program. Multi-family customers are charged on a per unit basis for cart service, at \$2.85 per taxable unit per month. Multi-family organics tonnage is reported with single-family tonnage.

## **Commercial Programs**

### **Commercial Solid Waste**

WMAC provides commercial and drop box solid waste collection service to the District through an exclusive franchise agreement. Customers can choose from: 32-, 64-, or 96-gallon carts; 1-through 7- cubic yard bins; and, 6-, 14-, 20-, 30-, and 40-cubic yard drop boxes. Collection is provided up to six days per week for solid waste. WMAC uses semi-automated trucks for collection.

Commercial businesses may self-haul materials, but all properties must subscribe to some level of collection service. Commercial rates for carts, bins, and drop boxes are regressive. Figure 4 illustrates the rates charged for commercial solid waste collection.

**Figure 4: Rates for Commercial Solid Waste Collection**

Measurement	L1 and L2 Rate	L3 Rate
32-gallon cart	\$12.47/month	\$14.17/month
Per cubic yard	\$58.31 - \$71.99/month	\$66.24 - \$81.77/month
Drop box per cubic yard	\$15.60 - \$36.45/month	\$17.75 - \$41.42/month

Commercial solid waste is transferred at the DSTS and disposed of at Altamont. In 2006, 34,741 tons of solid waste were collected through the commercial and drop box program.

**Commercial Recycling**

WMAC provides commercial recycling collection to the District under a limited non-exclusive franchise agreement. Customers can choose from: 32-, 64-, or 96-gallon carts and 1- through 7-cubic yard bins for collection. WMAC collects materials consistent with those accepted under the residential program as well as E-waste and white goods.

WMAC is the only service provider that can charge for service. Recycling is available to commercial customers at a 60% discount relative to comparable solid waste service. The District plans to implement an outreach program for commercial and small business recycling.

WMAC takes recyclables directly to the DSTS for processing. In 2006, 5,886 tons of recyclables were collected through the commercial recycling program.

**Commercial Organics**

Commercial organics service is not regulated in the District.

**Construction and Demolition Debris Program**

WMAC provides C&D debris collection under an exclusive franchise agreement. The District does not have jurisdiction over building permits and cannot directly monitor or enforce its C&D debris ordinance.

C&D debris collected by WMAC is taken directly to the DSTS for processing. Tonnage specific to this program is not reported to the District.

**Other Recycling Programs**

**AB 2176 Programs - Special Events and Large Venues**

The District holds no special events or large venues that meet the requirements of AB 2176.

## **Bulky Item Collection**

The District sponsors up to two on-call curbside pick-ups per year for residential customers free of charge. The cost is included in the residential solid waste rates. Materials accepted through this program include solid waste (up to two yards in bags), branches (bundled and no more than 4 feet long and 12 inches wide), large appliances (up to three), large household furniture (up to three items), tires (up to four) and E-waste. Materials diverted through this program include appliances, tires, and E-waste.

In 2006, WMAC served 2,807 households through this program and diverted 210 tons of recyclable materials.

## **Buyback/Drop-Off Facilities<sup>4</sup>**

There are no buyback or drop-off facilities in the District. District residents and businesses have access to the buyback and drop-off facility at WMAC's Davis Street Transfer Station.

## **E-Waste, Universal Waste, and/or Used Oil Collection**

WMAC provides weekly curbside collection of used motor oil and filters. E-waste is collected by WMAC during the on-call pick-ups.

## **Household Hazardous Wastes**

The District does not sponsor household hazardous waste collection services beyond those provided by the Alameda County Household Hazardous Waste Program.

## **Member Agency Facility Programs**

WMAC does not provide collection services to public facilities in the District.

## **School Programs**

WMAC provides exclusive solid waste and recycling collection to District schools. The average diversion rate for all schools in the District is 35%.

## **Seasonal Programs**

The City of San Leandro sponsors a Fall leaf program for its residents, which includes District customers in service area L3. Holiday trees are collected curbside during the first two weeks in January, on the same day as regular collection service. After the first two weeks in January, customers must cut up the trees and place them in the organics carts.

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<sup>4</sup> Excludes beverage container redemption centers operating under certification by the State Department of Conservation's AB 2020 program.

**Used Tires**

Tires are diverted through the on-call pick-ups. Customers may set out up to four tires per household. The cost for this program is included in the residential rates. In 2006, WMAC diverted two tons of recyclable tires through this program.

**White Goods Pick-up**

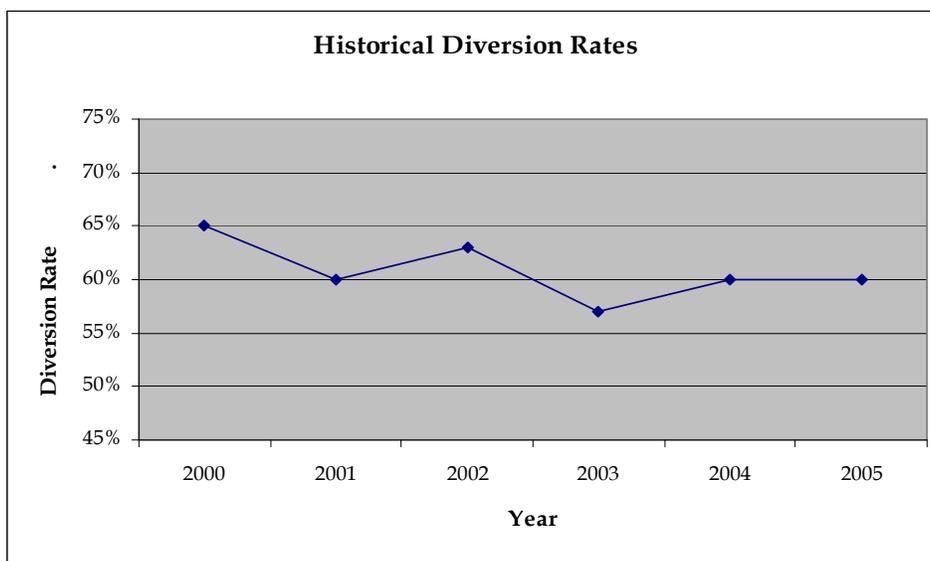
Large appliances are included in the on-call pick-ups. The cost for this program is included in the residential rates. In 2006, WMAC diverted 155 tons of recyclable white goods through this program.

**AB 939 Compliance Status**

The District’s most current diversion rate is 60%, as approved by the State. Note that the State-approved diversion rate is for the entire unincorporated area of Alameda County, which includes the L1 portion of Oro Loma, all of the Castro Valley Sanitary District, and the remaining unincorporated areas. Thus, the diversion rates for Oro Loma are identical to the rates for Castro Valley, and do not include the Hayward and San Leandro areas of Oro Loma (L2 and L3).

The multi-family recycling program has been expanded and customers can now receive 1-through 7-cubic yard bins for recycling collection. Commercial and residential recycling is now single stream. Residential recycling collection is unlimited and customers can request larger or multiple carts. In 2003, the District expanded its commercial recycling collection to include schools in the area. Figure 5 shows the diversion rate over time.

**Figure 5: CIWMB Diversion Rates from 2000 to 2005**



**Sustainability**

Figure 6 lists the sustainability programs or policies that are in place or in planning, as reported by District staff.

**Figure 6: Sustainability Programs/Policies**

Sustainability Program	Program/Policy in Place	Program/Policy in Planning
ABAG'S Green Business Program	No	No
Bay-Friendly Landscaping and Gardening	Yes	
Environmentally Preferable Purchasing	No	No
Civic Green Building	Yes	
ICLEI - Local Government for Sustainability Climate Change Baseline Study	No	No
Climate Action Plan	No	No
Other Comprehensive Green House Gas/ Climate Change Efforts	No	No
Other Sustainability Programs	No	No
Zero Waste Resolutions / Plans	No	No

**Future Planning and Programming Needs**

Staff indicate that the District is committed to reaching the 75% diversion goal specified in Measure D, to the degree that it is reasonably and economically attainable. Future plans toward achieving the goal include:

- Monitoring and improving the multi-family recycling program;
- Continuing recycling outreach to residential customers; and,

- Continuing multi-family outreach through calls to rental property owners and distribution of education materials.

The District perceives the largest barrier to reaching 75% diversion to be the additional costs to all their customers for the enhancement of recycling programs, which only a small number of customers utilize. District staff note that addition of food scraps collection could increase WMAC’s operating costs, resulting in rate increases in areas other than organics collection, and possibly decrease participation in other diversion programs.

Figure 7 describes the components of the municipally-controlled diversion and disposal stream in the District and the relative proportions of each component for the residential and commercial sectors. Some member agencies have commercial recycling and/or organics diversion programs for which data is not reported. For these agencies, Figure 7 indicates relatively less total diversion as a percentage of the total municipally controlled stream than is the case for member agencies that provide for reporting of commercial diversion tonnages. However, non-reporting of commercial diversion data is not an indicator of lack of diversion, or of the strength of those diversion programs.

**Figure 7: Composition of Municipally-Controlled Disposal and Diversion**

