STATE OF CALIFORNIA CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 2: Generation Study - Includes Extrapolation of Residential or Non-Residential Diversion Data

To request a substitution for a previously approved base-year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance
1001 I Street, 9th Floor
PO Box 4025
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

☐ 1. Use a recent generation-based study to calculate our current reporting-year generation amount, but not officially change our existing Board-approved base year.

☑ 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The shaded cells on these sheets are protected . If you have problems using these sheets, please contact your Office of Local Assistance representative.

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name **City of Cupertino**		County **Santa Clara**	
Authorized Signature Lavenia Millar		Title Environmental Programs Manager	
Type/Print Name of Person Signing Lavenia Millar		Date 1-Nov-01	Phone ( ) 408-777-3242
Person Completing This Form (please print or type) Richard Gertman		Title Principal	
Affiliation:	Environmental Planning Consultants		
Mailing Address 1885 The Alameda, Suite 120	City San Jose	State CA	ZIP Code 95126
E-mail address rgertman@aol.com			

7. Disposal Tonnage: (enter values)	10703	34868	45571
	Residential	Non-Residential	Total

Please select the **ONE** choice below that best explains your **disposal** data and complete the required tables.

☑ a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

☐ b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc)

☐ c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. (Note: the Board expects the jurisdictions to be able to provide all back-up documentation, if requested.) Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (form will perform all addition calculations). If any diversion is from restricted wastes [i.e., agricultural wastes, inert solids (e.g. concrete, asphalt, dirt, etc.), white goods, and scrap metal], please identify those programs/waste types and fill out section 11. Note: Restricted waste material should not be extrapolated in non-residential waste audits. Please mark as attachment 8 all copies of survey forms.

* Please provide detailed non-residential waste audit information in Section 9.

Note: The Board has indicated that it will be scrutinizing total source reduction amounts greater than 5% of total generation. Please be prepared to provide additional details subsantiating your claim.

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/LGCentral/PARIS/Codes/Reduce.htm	Actual tons (A)	Estimated or extrapolated tons (B)	Total tons (A+B)	Relative Percent to Total Generation (A+B)/Total Generation	Specific material type(s) (List programs with multiple materials together)	Specific conversion factor used (if any) and Source	Type of record and location of record
Residential Activities:							
Source Reduction							
Backyard composting	9	368	376.7812125	0.4%	yard waste and food waste (kitchen scraps)	Survey of 310 Residents; 429 pounds per year pr HH; extrapolated to all residences	Calculations @ City Public Works Department
Grasscycling	7	287	293.59575	0.3%	grass	350 pounds per 1000 sf. per year; CIWMB & City of Palo Alto	Calculations @ City Public Works Department
Other residential source reduction (list each program separately)							
Donation of Used Household Items	17	931	948.660882	1.0%	miscelaneous household items	Survey of 310 Residents; 118 pounds per year pr HH; extrapolated to all residences	Calculations @ City Public Works Department
Sale of Used Household Items	1	75	76.213085	0.1%	miscelaneous household items	Survey of 310 Residents; 95 pounds per sale; extrapolated to all residences	Calculations @ City Public Works Department
Shopping Bag Reuse	6	33	38.40525	0.0%	reusable bags replace paper bags	Survey of 310 Residents; 200 bags per year pr HH; extrapolated to all residences	Calculations @ City Public Works Department
Junk Mail Reduction	0	25	25.6035	0.0%	mixed paper	Survey of 310 Residents; 12 pounds per year pr HH; extrapolated to all residences	Calculations @ City Public Works Department
Reusable Diaper Use	57	0	57.2	0.1%	reusable diapers replace disposable diapers	Survey of Tiny Tot Diaper Service	Calculations @ City Public Works Department

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/LGCentral/PARIS/Codes/Reduce.htm	Actual tons (A)	Estimated or extrapolated tons (B)	Total tons (A+B)	Relative Percent to Total Generation (A+B)/Total Generation	Specific material type(s) (List programs with multiple materials together)	Specific conversion factor used (if any) and Source	Type of record and location of record
Subtotal Res. Source Reduction	**97**	**1719**	**1816.45968**	**2.0%**			
Recycling							
Curbside Recycling	5519	N/A	5519	6.0%	Newspaper, mixed paper, beverage containers, oil and oil filters, collected by LAGCo.	none	Report by Franchisee @ City Public Works Department
Buyback centers	2425	N/A	2425	2.6%	beverage containers	none	Report by DOC @ City Public Works Department
Drop-off centers		N/A					
Other residential recycling (list each program separately)							
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Subtotal Residential Recycling	**7944**		**7944**	**8.7%**			
Composting							
Green waste drop-off		N/A					
Curbside green waste	5936	N/A	5936	6.5%	yard waste	none	Report by Franchisee @ City Public Works Dept.
Christmas Tree program	in Curbside	N/A	in Curbside				[included in Curbside Green Waste tonnages]
Other residential composting (list each program separately)							
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Subtotal Residential Composting	**5936**		**5936**	**6.5%**			
Subtotal Residential Diversion	**13977**	**1719**	**15696.45968**	**17.1%**			
Non-Residential Activities:							
Source Reduction							
Non-residential Waste Audits*	2792	5603	8395.64793	9.2%	**See Section 9**	**See Section 9**	**See Section 9**
Other non-residential source reduction (list each program separately)							
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/LGCentral/PARtS/Codes/Reduce.htm	Actual tons (A)	Estimated or extrapolated tons (B)	Total tons (A+B)	Relative Percent to Total Generation (A+B)/Total Generation	Specific material type(s) (List programs with multiple materials together)	Specific conversion factor used (if any) and Source	Type of record and location of record
Subtotal Non-Residential Source Reduction	**2792**	**5603.451903**	**8395.64793**	**9.2%**			
Recycling							
Non-residential Waste Audits*	11220	6302	17522.02434	19.1%	**See Section 9**	**See Section 9**	**See Section 9**
Other non-residential recycling (list each program separately)							
Los Altos Garbage Co. collection	1076	N/A	1076	1.2%	Cardboard, mixed paper, and beverage containers collected by LAGCo.	none	Report by Franchisee @ City Public Works Department
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Subtotal Non-Residential Recycling	**12296**	**6301.987635**	**18598.02434**	**20.3%**			

Diversion Activity Please use the Board's program types. The program type glossary is online at: http://www.ciwmb.ca.gov/LGCentral/PARtS/Codes/Reduce.htm	Actual tons (A)	Estimated or extrapolated tons (B)	Total tons (A+B)	Relative Percent to Total Generation (A+B)/Total Generation	Specific material type(s) (List programs with multiple materials together)	Specific conversion factor used (if any) and Source	Type of record and location of record
Composting							
Non-residential Waste Audits*	2797		2796.84	3.1%	See Section 9	See Section 9	See Section 9
Other non-residential composting (list each program separately)							
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Enter program name		N/A					
Subtotal Non-Residential Composting	2797	0	2796.84	3.1%			
Subtotal Non-Residential Diversion	17885	11905.43954	29790.51227	32.5%			
Residential/Non-residential Diversion Activities							
ADC	517	N/A	517	0.6%			CIWMB Disposal Reporting System
Sludge		N/A					
Scrap metal		N/A					
Construction and demolition		N/A					
Landfill salvage		N/A					
Subtotal Residential/Non-Residential Diversion	517		517	0.6%			
Total Res/Non-Res Source Reduction Tons	2890	7322	10212	11.2%			
Total Diversion Tons	32380	13624.43316	46003.97194	50%			
Total Disposal Tons from Sec.7	45571		45571	49.8%			
Total Generation (Div+Dis)	77951	13624.43316	91574.97194				
Diversion Rate				50%			

9. Specific Non-Residential Sector Waste Audits – Top 10 Non-Residential Generators

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from the largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.
(Form will perform all calculations).

Include attachment, marked attachment 9, which includes a summary of all the generators surveyed and all extrapolation calculations used to estimate the diversion rate:

- Include copies of survey form(s) used.
- Include for each generator (use type of generator in lieu of specific generator name, e.g. grocery store) each specific diversion activity and material type (e.g. cardboard recycling) and the associated tonnage for each diversion activity/material type, and applicable conversion factors/source.
- If using number of employees for your extrapolation method, include this information for each generator surveyed.
- Please order the non-residential generators, largest to smallest, based on total diversion tons.
- Also, summary should include the generators that were selected to be surveyed, but did not respond to the survey and the number of employees at each generator.
- As a comparison between disposal from the waste audits and DRS, the disposal for each generator must be included in the summary. Also, you should note if the disposal is being used for the extrapolation calculation. For each non-residential generator, the disposal must be broken out by cubic yard, and roll-off or compactor weights. If disposal was estimated for either disposal-based or employment-base extrapolation methods, please include conversion factor(s) for disposal and source for conversion factor(s). Please provide an explanation as to how the conversion factor(s) is (are) appropriate for your jurisdiction, e.g. study was conducted to determine average weights using hauler weight tickets, etc.

Type of Non-residential Generator	Audit Reference Number	Specific Diversion Activities include material type (e.g. paper recycling, grasscycling). (List activities on one line)	Number of Employees	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Diversion Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) On-site (O) Other ___
City	1	inerts recycling (1883 tons); grasscycling (1318 tons) and paper use reduction (27 tons).		1346	1883	0	3228.76	3.5%	O & P
Gas and Electric Service	2	compost tree trimmings (2564 tons) and mulch wood wastes (38 tons)		0	50	2564	2614.4	2.9%	O & P
Landscaping	3	mulch from tree trimmings			1947	0	1946.88	2.1%	P
Computer	4	recycling electronic scrap and office equipment (591 tons), recycling mixed paper and cardboard (346 tons), plant wastes composted (82 tons), refill toner cartridges (32 tons) and donate materials (18 tons)		75	963	82	1119.58	1.2%	O & P
College	5	confidential paper recycling, and used equipment donation; paper use reduction and grasscycling of turf; diversion of C&D debris; (plus 192.2 tons recycled with LAGCo reported in Sec. 8, B61)		285	747	0	1031.8	1.1%	O & P
Computer	6	Recycling mixed paper and cardboard, mulching wood wastes, composting plant wastes		5	721	137	863	0.9%	O & P
Retail	7	recycling cardboard boxes (366 tons) and pallet reuse (312 tons)		315	370	0	684.38	0.7%	P
Landscaping	8	mulch from tree trimmings		0	491	0	491.4	0.5%	P
Landscaping	9	mulch from tree trimmings		0	468	0	468	0.5%	P
Food Store	10	recycling cardboard boxes		0	456	0	456.25	0.5%	P

Totals		2025	8096	2783	12904		

Summarize the non-residential diversion activities for the top 10 generators quantification methodology and applicable conversion factors and sources. (e.g. cardboard recycling: quantified by monthly tonnage receipts provided by the contact person at the business)

Details of diversion quantification (with conversion factors) used in this section and included in Section 8 totals are provided in the Cupertino non-residential diversion spreadsheets (Cupertino N-R diversion.xls).

Tonnages listed above do not include those recycled through Los Altos Garbage Company to avoid double counting (See Section 8, cell B61).

10. On a separate sheet of paper, marked attachment 10, provide the following information for each diversion program listed in section 8 that was extrapolated from representative sampling. (Note: Do not include non-respondents in extrapolation because there is no data from the non-respondents. Extrapolate from survey respondents.)

A. Describe sampling method including:

- Type of sampling method (for either stratified or cluster sampling provide detailed information on how strata and clusters were collected.);
- Total number of samples included in the survey;
- Number of non-respondents and respondents;
- Total population;
- Source for identifying population (e.g. city business licenses, commercial database, resident's addresses, etc.);
- Relation of sample size to total population;
- Survey data collection tool(s) and approaches;
- Confidence level and margin of error for the sampled population;
- Outliers (specific generators which fall significantly above or below others) should be removed from base amount prior to extrapolation; and
- Unusual outliers and exceptional anomalies should be described in detail.

B. Describe the methods used to prevent double-counting between the surveys and the reported tonnages from haulers, recyclers, MRFs and composters.

C. Describe extrapolation method including:

- Basis of extrapolation;
- Why this extrapolation method is appropriate; and
- Sources of information used for extrapolation, such as disposal or employment.
- Include all Calculations.

11. For each restricted waste type [(i.e. agricultural waste, inert solids (e.g. concrete, asphalt, dirt, etc.), scrap metals and white goods (PRC Section 41781.2)] and associated program, please provide the following information:

a. If the diversion program started on or after January 1, 1990, complete the following table:
(Note: program name refers to one specific diversion program for that waste type, for example diversion conducted by City Public Waste Dept.)

Restricted Waste Type	Specific Program name	Year started	Tonnage
Pull Down for Waste Types			
Pull Down for Waste Types			
Pull Down for Waste Types			
Pull Down for Waste Types			
Pull Down for Waste Types			
Pull Down for Waste Types			

b. If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 11b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 11b for that waste type and program. Instead please provide date of Board approval of previous submitted information.) _____ (Date)
If documentation is not available, go to 11d.

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion [PRC Sec. 41781.2 (c) (1)].

- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (Note: this criterion is applicable to the entire jurisdiction, not to individual programs [PRC Sec. 41781.2 (c) (2)]). Please include documentation.
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

c. If the diversion program started before January 1, 1990, and the documentation requested in 11b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New base year or reporting year diversion tonnage
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		

d. If the diversion program started before January 1, 1990, and the documentation requested in 11b is not available, please complete the table below for each program claimed. (***Note**: Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.)*

Restricted Waste Type	Specific Program name	New base year or reporting year tonnage	1990 diversion tonnage	Difference
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				

Attachment 10 to the City of Cupertino Base-Year Modification Request

BYMR Section 8 Diversion Program Details

Residential Sector Waste Prevention Programs

All Residential Waste Prevention Programs were surveyed by a simple random sampling methodology. An alphabetical listing of customers was obtained from the City's franchised waste hauler. The list (although provided electronically) was approximately 1800 pages long. Since we were to survey 300 residents, we selected the first name on each sixth page. If that person/household was not available, we went on to the next name on the list, and continued until a survey was completed. Then we skipped to the first name on the sixth next page. A total of 310 surveys were completed from approximately 13,315 households (2.3%). The confidence level for the survey is greater than 90 percent.

Residents were asked 8 questions (the survey form is attached to this description). The first two related to participation in the recycling program only to set the tone for the remaining questions. The remaining six questions provided details on specific waste prevention activities (backyard composting, grasscycling, donation of used household items, sale of used household items, shopping bag reuse, and junk mail reduction). The responses were tallied and extrapolated to all single-family dwellings in the City.

The extrapolation was done as a straight-line multiplier. For each of the program activities identified, the average weight diverted and the percentage of households participating was determined from the responses. The percentage of households participating was multiplied by the total of 13,315 households to determine the number of participants. The amount of material diverted per participating household was then multiplied by the number of participants to determine the total weight diverted. No anomalies were identified.

Non-Residential Sector Waste Reduction Programs

A survey was conducted of business waste reduction practices in Cupertino. The ten largest waste generators in the City were separately surveyed. For theses waste generators, site-visits were conducted. A full facility walk-through, to identify waste prevention as well as recycling activities, was part of the survey. The results of this survey are provided in Section 9 of this Base-Year Modification Request to the CIWMB.

Diversion through programs operated for the City by LAGCo was also not included in the extrapolated survey data, to avoid characterizing diversion that did not occur, and to avoid double counting the diversion. Diversion by the private sector of restricted wastes (primarily scrap metal and inerts) was eliminated from the diversion calculations.

For the remaining businesses, a cluster sampling survey methodology was used. The eight largest business sectors in the City were identified (listed below) and a number of businesses from each group were surveyed. Most of these surveys were conducted on the telephone. In some cases, site visits were made to identify specific program elements, and in other cases the survey form was faxed to the business, and if the form was not completed and returned, a follow-up telephone call was made to obtain the necessary information.

SIC Grouping	Number Surveyed	Total Number	Percent Surveyed
1. Education	12	23	52.2
2. F.I.R.E.	26	159	32.4
3. Food Stores	12	12	100.0
4. Landscapers	17	26	65.4
5. Restaurants	26	137	19.0
6. Retail (Large)	4	8	50.0
7. Retail (Other)	33	604	5.5
8. Other (Services)	43	2,124	2.0
TOTALS	173	3,093	5.6

Over half of all of the businesses in the education, food stores, landscapers, and big retail groups were surveyed. Groups 1-5 each have a very homogeneous waste stream. According to the CIWMB Diversion Study Guide, only 25 samples were required to provide an adequate level of confidence about the types of wastes and diversion program impacts. Thirty-three surveys were conducted of other 'Retail' establishments, and forty-three surveys were taken from the 'super-group' of "All Other" (primarily service) businesses in Cupertino.

Treating the entire 3,091 businesses in Cupertino as one large group would have made extrapolating the diversion data less accurate, because selected diversion activities are much more common in one sector than another. For example, there is much more office paper in the finance, insurance and real estate group than in any other group.

Specifically, the survey identified the following diversion from source reduction activities.

Non-Residential Source Reduction Activities by Type and Tons

Activity	**Tons**
Paper use reduction	155.9
Pallet reuse	600.2
Container reuse	57.8
Food donation	37.7
Grasscycling	1,758.9
Equipment sold or donated	74.7
Other Source Reduction	107.1
TOTAL	**2,792.2**

Other Source Reduction includes:

- use of refillable/rechargeable items (e.g., toner cartridges);
- use of reusable coffee mugs;
- reducing the number of single use items;
- landscaping with slow growing plants;
- equipment repair and reuse;
- use of uniforms, napkins and tablecloths at restaurants;
- reuse of packing and packaging materials; and
- returning damaged goods to vendor.

The survey also identified the following diversion from recycling activities. Materials recycled by LAGCo are specifically not included in the survey data to avoid double counting.

Non-Residential Recycling Activities by Waste Type and Tons

Waste Type	**Tons**
Cardboard	2,521.6
Mixed paper	615.9
Beverage Containers	95.8
Textiles	7.7
Plastics	1,446.8
Inerts	1,883.2
Organics (mulch)	4,649.0
TOTAL	**11,220.0**

Details of the survey are attached *(See: CUPERTINO N-R Diversion.xls)*.

Surveyed Diversion

	Computer	Computer	College	Computer	Company	Utility	Company	Company	Totals
Recycling									
Cardboard	56.52			155					211.52
Newspaper									0
Mixed paper	289.32			317	3.35				609.67
Glass				11		4.5	29		44.5
Aluminum	25	10.4					0.9		36.3
Textiles						7.65			7.65
Film									0
Other	591.78	0.34	745.5	107			0.03		1444.65
Organics (mulch)			1.6	131		38			170.6
TOTAL Recycling *	962.62	10.74	747.1	721	3.35	50.2	29.93	0	2524.89
Source Reduction									
Paper use reduction			114.90						114.9
Pallet reuse			7.7						7.7
Container reuse									0
Food donation									0
Grasscycling			135.8						135.8
Equipment sold or donated	17.52	0.16	9.9		2.6				30.18
Other Source Reduction **	57.6		16.4	5		0.25	0.2		79.45
TOTAL Source Reduction	75.12	0.16	284.7	5	2.6	0.25	0.2	0	368.03
TOTAL Composting	81.84			137		2564		14	2796.84
Diversion	1,119.58	10.90	1,031.80	863.00	5.95	2,614.40	30.13	14.00	5,689.76

Surveyed Diversion

Recycling	Big Co.	City	Education	F.I.R.E.	Food Stores	Landscape	Restaurant	Retail	Big Retail	Other (Services)	Subtotals
Cardboard	211.52			1.50	1464.65		0.06	150.56	693.36		2,521.65
Mixed paper	609.67			1.32			0.38	0.09	0.84	3.59	615.88
Beverage Containers	80.8		0.50				5.40	0.10	0.90	8.10	95.80
Textiles	7.65										7.65
Plastics	1444.65				0.90			1.28			1,446.83
Inerts		1883.20									1,883.20
Organics (mulch)	170.6					4478.43					4,649.03
TOTAL Recycling *	2524.89	1883.20	0.50	2.82	1465.55	4478.43	5.84	152.04	695.10	11.69	11,220.04
Source Reduction											
Paper use reduction	114.9	27.30	6.85	1.39	0.39		0.28	0.38	0.03	4.41	155.93
Pallet reuse	7.7				151.74			110.08	330.72		600.24
Container reuse					3.24			54.54			57.78
Food donation					36.70		0.96				37.66
Grasscycling	135.8	1318.26				304.80					1,758.86
Equipment sold or donated	30.18			0.41	0.08		0.42	0.78	16.03	26.74	74.65
Other Source Reduction **	79.45		2.49	0.53	0.12		4.80	8.40	0.44	10.86	107.08
TOTAL Source Reduction	368.03	1345.56	9.35	2.34	192.27	304.80	6.46	174.18	347.21	42.01	2,792.20
TOTAL Composting	2796.84										2,796.84
TOTAL Surveyed Diversion	5689.76	3228.76	9.85	5.15	1657.82	4783.23	12.29	326.22	1042.31	53.69	14,012.23
Number of Businesses Surveyed	8	1	12	26	12	17	26	33	4	43	173
Total Number of Businesses	8	1	23	159	12	26	137	604	8	2124	3,093
Percent of Businesses Surveyed	100%	100%	52.2%	16.4%	100%	65.4%	19.0%	5.5%	50.0%	2.0%	

* The Total Recycling amounts do not include the tonnages recovered by LAGCo, so the extrapolation does not include any fixed amounts. The exclusion of tons recycled through LAGCo means that there are more tons of source reduction than recycling identified in some groupings.

** Other Source Reduction includes use of refillable/rechargeable items; reusable coffee mugs; fewer single use items; slow growing plants; equipment reuse; reuse of uniforms, napkins and tablecloths; reuse packaging materials; and damaged goods returned to vendor.

TOTAL Diversion

Recycling	Big Co.	City	Education	F.I.R.E.	Food	Landscape	Restaurant	Retail	Big Retail	Other (Services)	Subtotals
Cardboard	211.5			9.2	1,464.6		0.3	2,755.7	1,386.7	0.0	5,828.1
Mixed paper	609.7			8.0			2.0	1.7	1.7	177.1	800.2
Beverage Containers	80.8		1.0				28.5	1.9	1.8	400.1	514.0
Textiles	7.7										7.7
Plastics	1,444.7				0.9			23.4			1,468.9
Inerts		1,883.2									1,883.2
Organics (mulch)	170.6					6,849.4					7,020.0
TOTAL Recycling *	2,524.9	1,883.2	1.0	17.2	1,465.5	6,849.4	30.8	2,782.7	1,390.2	577.2	17,522.0
Source Reduction											
Paper use reduction	114.9	27.3	13.1	8.5	0.4		1.5	7.0		217.7	390.5
Pallet reuse	7.7				151.7			2,014.8	661.4		2,835.7
Container reuse					3.2			998.2			1,001.5
Food donation					36.7		5.1				41.8
Grasscycling	135.8	1,318.3				466.2					1,920.2
Equipment sold or donated	30.2			2.5	0.1		2.2	14.3	32.1	1,321.1	1,402.4
Other Source Reduction **	79.5		4.8	3.2	0.1		25.3	153.7	0.9	536.2	803.6
TOTAL Source Reduction	368.0	1,345.6	17.9	14.3	192.3	466.2	34.0	3,188.1	694.4	2,075.0	8,395.6
TOTAL Composting	2,796.8										2,796.8
TOTAL Surveyed Diversion	5,689.76	3,228.76	18.87	31.52	1,657.82	7,315.52	64.78	5,970.76	2,084.56	2,652.16	28,714.51

* The Total Recycling amounts do not include the tonnages recovered by LAGCo, so the extrapolation does not include any fixed amounts. The exclusion of tons recycled through LAGCo means that there are more tons of source reduction than recycling identified in some groupings.

** Other Source Reduction includes use of refillable/rechargeable items; reusable coffee mugs; fewer single use items; slow growing plants; equipment reuse; reuse of uniforms, napkins and tablecloths; reuse packaging materials; and damaged goods returned to vendor.

Extrapolated Diversion

Recycling	Big Co.	City	Education	F.I.R.E.	Food	Landscape	Restaurant	Retail	Big Retail	Other (Services)	Subtotals
Cardboard				7.67			0.27	2,605.14	693.36		3,306.44
Mixed paper				6.73			1.60	1.61	0.84	173.50	184.28
Beverage Containers			0.46				23.05	1.80	0.90	392.00	418.21
Textiles											0.00
Plastics								22.12			22.12
Inerts											0.00
Organics (mulch)						2,370.93					2,370.93
Extrapolated Recycling *	0.00	0.00	0.46	14.40	0.00	2,370.93	24.92	2,630.67	695.10	565.50	6,301.99
Source Reduction											
Paper use reduction			6.28	7.13			1.19	6.63	-0.03	213.31	234.52
Pallet reuse								1,904.72	330.72		2,235.44
Container reuse								943.67			943.67
Food donation							4.10				4.10
Grasscycling						161.36					161.36
Equipment sold or donated				2.11			1.78	13.57	16.03	1,294.31	1,327.79
Other Source Reduction **			2.28	2.71			20.49	145.29	0.44	525.35	696.57
Extrapolated Source Reduction	0.00	0.00	8.57	11.96	0.00	161.36	27.56	3,013.87	347.16	2,032.97	5,603.45
TOTAL Composting											0.00
TOTAL Extrapolated Diversion	0.00	0.00	9.03	26.36.	0.00	2,532.30	52.48	5,644.55	1,042.26	2,598.47	11,905.44

* The Total Recycling amounts do not include the tonnages recovered by LAGCo, so the extrapolation does not include any fixed amounts. The exclusion of tons recycled through LAGCo means that there are more tons of source reduction than recycling identified in some groupings.

** Other Source Reduction includes use of refillable/rechargeable items; reusable coffee mugs; fewer single use items; slow growing plants; equipment reuse; reuse of uniforms, napkins and tablecloths; reuse packaging materials; and damaged goods returned to vendor.

Ref. No.	Business Name	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		210.60		21.06 ~~210.6~~
2	LANDSCAPE							
		Recycling	Wood chips and mulch	450 pounds/cy; CIWMB conversion factor		193.05		193.05
3	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		131.63		70.02 ~~131.63~~
4	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		365.04		140.4 ~~365.04~~
5	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		4.21		42.1 ~~4.21~~
6	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		1,946.88		37.44 ~~1946.88~~
7	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		-		46.8 ~~0~~
8	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		491.40		49.14 ~~491.4~~
9	LANDSCAPE							
		Recycling	Wood chips and mulch	450 pounds/cy; CIWMB conversion factor		351.00		35.10 ~~351~~
10	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		-		14.04 ~~0~~
11	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		198.90		23.87 ~~198.9~~
12	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		51.48		46.80 ~~51.48~~
13	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		468.00		105.3 ~~468~~
14	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		52.65		105.3 ~~52.65~~
15	LANDSCAPE							
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		2.34		16.38 ~~2.34~~
16	LANDSCAPE							
		Source reduction	Grass	7.62 tons/acre; CIWMB conversion factor	76.2			76.20
17	LANDSCAPE							
		Source reduction	Grass	7.62 tons/acre; CIWMB conversion factor	228.6			228.60
		Recycling	Wood chips	450 pounds/cy; CIWMB conversion factor		11.25		11.25
	Total				304.80	4478.43		1262.85 ~~4783.23~~

Ref. No.	Business Type	Address	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.02			0.02
2	OTHER								
			Less than .01 ton						0.00
3	OTHER								
			Source reduction	Store info on disks	.01 pound per page, CIWMB conversion factor	0.01			0.01
4	OTHER								
			Source reduction	Use voice mail and electronic mail		0.01			0.01
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.01			0.01
			Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.14			0.14
5	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.03			0.03
			Source reduction	Donate used equipment	330 pounds per year, company information	0.17			0.17
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.02			0.02
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.02			0.02
6	OTHER								
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.01			0.01
7	OTHER								
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.02			0.02
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.07			0.07
8	OTHER								
			Recycling	Mixed paper	Actual tons based on company records		3.23		3.23
			Source reduction	Donate copier, camera	CIWMB conversion factors	0.02			0.02
9	OTHER								
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.02			0.02
10	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.54			0.54
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.16			0.16
11	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.47			0.47
12	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.06			0.06
			Source reduction	Donate used equipment	Actual tons based on company interview	0.47			0.47
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.01			0.01
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.08			0.08
13	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.05			0.05
14	OTHER								
			Recycling	Mixed paper	15 pounds per 33 gallon bag, EPC		0.36		0.36
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.47			0.47
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.09			0.09
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.33			0.33
15	OTHER								
			Less than .01 ton						0.00
16	OTHER								
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.03			0.03
17	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.04			0.04
			Source reduction	Donate used equipment	Actual tons based on company interview	0.05			0.05

18	OTHER								
			Recycling	Mixed beverage containers	45 pounds mixed beverage containers per 32 gallons,		8.10		8.10
			Source reduction	Donates clothing	Actual tons based on church records	0.15			0.15
			Source reduction	Donate used equipment	Actual tons based on church interview	0.41			0.41
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.08			0.08
19	OTHER								
			Source reduction	Post notices on bulletin boards	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.15			0.15
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.01			0.01
20	OTHER								
				Use back of page	.01 pound per page, CIWMB conversion factor	0.01			0.01
				Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.02			0.02
				Donate used equipment	Actual tons based on church interview	3.00			3.00
21	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.18			0.18
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.05			0.05
22	OTHER								
			Source reduction	Post notices on bulletin boards	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.03			0.03
23	OTHER								
				Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.05			0.05
				Reusable coffee mugs	.042 pounds per cup, EPC	0.03			0.03
24	OTHER								
			Less than .01 ton						0.00
25	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.06			0.06
			Source reduction	Sell used equipment	Actual tons based on company interview	0.02			0.02
			Source reduction	Donate used equipment	Actual tons based on company interview	0.08			0.08
26	OTHER								
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.98			0.98
			Source reduction	Donate used equipment	Actual tons based on company interview	0.90			0.90
27	OTHER								
			Source reduction	Donate used equipment	Actual tons based on company records	0.13			0.13
28	OTHER								
			Source reduction	Order electronically	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Eliminate unnecessary forms	.01 pound per page, CIWMB conversion factor	0.12			0.12
			Source reduction	Post notices on bulletin boards	.01 pound per page, CIWMB conversion factor	0.24			0.24
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.27			0.27
			Source reduction	Sell old linens	Actual tons based on company records	1.07			1.07
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.12			0.12
29	OTHER								
			Source reduction	Donate used equipment	Actual tons based on company interview	0.03			0.03
30	OTHER								
			Less than .01 ton						0.00
31	OTHER								
			No tonnage identified						0.00
32	OTHER								
			No tonnage identified						0.00
33	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.04			0.04
			Source reduction	Donate clothing and canned goods	Actual tons based on church records	0.20			0.20
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.06			0.06
34	OTHER								
			Source reduction	Donate used equipment	Actual tons based on company records	0.10			0.10

35	OTHER				Actual tons based on company records				
			Source reduction	Donate clothing and canned goods	10 pounds per box, EPC	4.68			4.68
			Source reduction	Post notices on bulletin boards	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.06			0.06
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.03			0.03
36	OTHER								
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.36			0.36
			Source reduction	Donate table, chairs	CIWMB conversion factors	0.09			0.09
37	OTHER								
			No tonnage identified						0.00
38	OTHER								
			Source reduction	Donate clothing	Actual tons based on church records	4.50			4.50
			Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.12			0.12
			Source reduction	Donate pews	200 pounds per pew, EPC	20.00			20.00
39	OTHER								
			Source reduction	Reusable coffee mugs	.042 pounds per cup, EPC	0.02			0.02
40	OTHER								
			Less than .01 ton						0.00
41	OTHER								
			Source reduction	Donate used equipment	Actual tons based on company interview	0.03			0.03
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.03			0.03
	Total					41.95	11.69	0	53.63

Ref. No.	Business Type	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	EDUCATION							
		Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.43			0.43
2	EDUCATION							
		Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.33			0.33
3	EDUCATION							
		Source reduction	Order electronically	.01 pounds per page, CIWMB conversion factor	0.08			0.08
		Source reduction	Use back side of the page	.01 pounds per page, CIWMB conversion factor	0.02			0.02
4	EDUCATION							
		Source reduction	Use voice mail and electronic mail	.01 pounds per page, CIWMB conversion factor	0.22			0.22
		Source reduction	Use reusable coffee mugs	.0417 pounds per cup, EPC	0.13			0.13
5	EDUCATION							
		Source reduction	Post notices	.01 pounds per page, CIWMB conversion factor	0.002			0.002
		Source reduction	Use voice mail and electronic mail	.01 pounds per page, CIWMB conversion factor	0.14			0.14
6	EDUCATION							
		No tonnage identified						
7	EDUCATION							
		Recycling	Aluminum cans	Actual tons based on school records		0.50		0.50
		Source reduction	Order electronically	.01 pound per page, CIWMB conversion factor	0.01			0.01
		Source reduction	Plastic bags avoided	.77 pound per 100 bags, CIWMB conversion factor	0.001			0.001
		Source reduction	Use back side of the page	.01 pound per page, CIWMB conversion factor	2.20			2.20
		Source reduction	Eliminate unnecessary forms	.01 pound per page, CIWMB conversion factor	0.003			0.003
		Source reduction	Review same draft	.01 pound per page, CIWMB conversion factor	0.0003			0.0003
		Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.05			0.05
		Source reduction	Voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.02			0.02
		Source reduction	Central filing system	.01 pound per page, CIWMB conversion factor	0.03			0.03
		Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.06			0.06
		Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.10			0.10
		Source reduction	Slow growing plants	100 pounds per 750 square fee, EPC	0.73			0.73
8	EDUCATION							
		Source reduction	Voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.23			0.23
		Source reduction	Central filing system	.01 pound per page, CIWMB conversion factor	0.003			0.003
		Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.01			0.01
		Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.33			0.33
9	EDUCATION							
		Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.12			0.12
		Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.16			0.16
10	EDUCATION							
		Source reduction	Use back of page	.01 pound per page, CIWMB conversion factor	0.01			0.01
		Source reduction	Use voice mail and electronic mail	.01 pound per page, CIWMB conversion factor	0.04			0.04
		Source reduction	Store information on disks	.01 pound per page, CIWMB conversion factor	0.11			0.11
		Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.22			0.22
11	EDUCATION							
		Source reduction	Central filing system	.01 pound per page, CIWMB conversion factor	3.60			3.60
12	EDUCATION							
		No tonnage identified						
	Total				**9.35**	**0.50**	**0**	**9.85**

Ref. No.	Business Type	Address	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	F.I.R.E.								
			Recycling	Cardboard	2.5 pounds per box, mixed sizes, CIWMB		0.30		0.30
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Central filing system	.01 pound per page, CIWMB conversion factor	0.05			0.05
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.04			0.04
2	F.I.R.E.								
			Source reduction	Use back side of the page	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.04			0.04
3	F.I.R.E.								
			No tonnage identified						0.00
4	F.I.R.E.								
			Source reduction	Use back side of page	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion factor	0.02			0.02
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.01			0.01
5	F.I.R.E.								
			Less than .01 ton						0.00
6	F.I.R.E.								
			Less than .01 ton						0.00
7	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.01			0.01
8	F.I.R.E.								
			Recycling	Cardboard	2.5 pounds per box, mixed sizes, CIWMB		0.30		0.30
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Use back side of page	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Eliminate forms	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Store info on disks	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.03			0.03
9	F.I.R.E.								
			Less than .01 ton						0.00
10	F.I.R.E.								
			Less than .01 ton						0.00
11	F.I.R.E.								
			Source reduction	Donate typewriters, microwave oven	CIWMB conversion factors	0.05			0.05
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.01			0.01
12	F.I.R.E.								
			No tonnage identified						0.00
13	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.30			0.30
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion factor	0.03			0.03
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.01			0.01
14	F.I.R.E.								
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion factor	0.01			0.01
15	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Donate copy machine, file cabinet,	CIWMB conversion factors	0.22			0.22
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.01			0.01
16	F.I.R.E.								
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion factor	0.01	-		0.01

Ref. No.	Business Type	Address	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
17	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Use back side of page	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.06			0.06
			Source reduction	Store info on disk	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Donate desk, monitor, printer	CIWMB conversion factors	0.10			0.10
18	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Document electronically	.01 pound per page, CIWMB conversion factor	0.05			0.05
			Source reduction	Use back side of page	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Review same draft	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.02			0.02
19	F.I.R.E.								
			Recycling	Cardboard	2.5 pounds per box, mixed sizes, CIWMB		0.30		0.30
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Donate copier, computer	CIWMB conversion factors	0.05			0.05
20	F.I.R.E.								
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.01			0.01
21	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.05		0.05
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.11			0.11
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.15			0.15
22	F.I.R.E.								
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.19		0.19
23	F.I.R.E.								
			No tonnage identified						0.00
24	F.I.R.E.								
			Recycling	Cardboard	2.5 pounds per box, mixed sizes, CIWMB		0.60		0.60
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.69		0.69
			Source reduction	Document electronically	.01 pound per page, CIWMB conversion factor	0.36			0.36
			Source reduction	Use back side of page	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.18			0.18
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.07			0.07
25	F.I.R.E.								
			Source reduction	Use back side of page	.01 pound per page, CIWMB conversion factor	0.01			0.01
26	F.I.R.E.								
			Source reduction	Use voice mail	.01 pound per page, CIWMB conversion factor	0.08			0.08
			Source reduction	Reusable coffee mugs	.0417 pound per cup, EPC	0.05			0.05
	Total					**2.29**	**2.82**	**0**	**5.10**

Ref. No.	Business Type	Diversion Activity	Material Type	Conversion Factor and Sourcre	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	FOOD STORE							
		No tonnage identified						0.00
2	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		216.00		216.00
		Source reduction	Donates food	Actual tons based on company records	18.00			18.00
3	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		456.25		456.25
4	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		147.00		147.00
		Source reduction	Donates food	Actual tons based on company records	11.70			11.70
5	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		360.00		360.00
		Source reduction	Double sided copies	.01 pounds per page, CIWMB conversion factor	0.04			0.04
		Source reduction	Route documents	.01 pounds per page, CIWMB conversion factor	0.21			0.21
		Source reduction	Post notices	.01 pounds per page, CIWMB conversion factor	0.12			0.12
		Source reduction	Meat to renderer	Actual tons based on company records	4.30			4.30
		Source reduction	Pallets reused	Actual tons based on company records	7.74			7.74
6	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		117.00		117.00
		Source reduction	Pallets reused	Actual tons based on company records	12.00			12.00
7	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		168.00		168.00
8	FOOD STORE							
		Source reduction	Reusable containers	Actual tons based on company records	2.88			2.88
9	FOOD STORE							
		No tonnage identified						0.00
10	FOOD STORE							
		Recycling	Plastic	Actual tons based on company records		0.90		0.90
		Source reduction	Donates food	Actual tons based on company records	1.50			1.50
		Source reduction	Reusable containers	Actual tons based on company records	0.36			0.36
		Source reduction	Pallet reuse	Actual tons based on company records	36.00			36.00
11	FOOD STORE							
		Recycling	Cardboard	Actual tons based on company records		0.40		0.40
12	FOOD STORE							
		Source reduction	Post notices	.01 pounds per page, CIWMB conversion factor	0.02			0.02
		Source reduction	Donate equipment	Actual tons based on company records	0.08			0.08
		Source reduction	Donate food	200 pounds per month, company data	1.20			1.20
		Source reduction	Reuse materials	Actual tons based on company records	0.12			0.12
		Source reduction	Pallet reuse	Actual tons based on company records	96.00			96.00
	Totals				**192.27**	**1465.55**		**1657.81**

Ref. No.	Business Type	Address	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	RESTAURANT								
			Recycling	Newpaper	Actual tonnage based on company records		0.38		0.38
			Recycling	Glass	Actual tonnage based on company records		5.40		5.40
			Source reduction	Uniforms, napkins, and tablecloths	Actual tonnage based on company records	4.80			4.80
2	RESTAURANT								
			Recycling	Cardboard	Actual tonnage based on company records		0.06		0.06
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.14			0.14
3	RESTAURANT								
			No tonnage identified						0.00
4	RESTAURANT								
			Source reduction	Donate used containers	Actual tonnage based on company records	0.01			0.01
5	RESTAURANT								
			No tonnage identified						0.00
6	RESTAURANT								
			Less than .01 ton						0.00
7	RESTAURANT								
			Less than .01 ton						0.00
8	RESTAURANT								
			No tonnage identified						0.00
9	RESTAURANT								
			Less than .01 ton						0.00
10	RESTAURANT								
			Source reduction	Store info on disks	.01 pound per page, CIWMB conversion factor	0.02			0.02
11	RESTAURANT								
			No tonnage identified						0.00
12	RESTAURANT								
			No tonnage identified						0.00
13	RESTAURANT								
			Source reduction	Eliminate unnecessary forms	.01 pound per page, CIWMB conversion factor	0.01			0.01
14	RESTAURANT								
			No tonnage identified						0.00
15	RESTAURANT								
			No tonnage identified						0.00
16	RESTAURANT								
			No tonnage identified						0.00
17	RESTAURANT								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Freezer sent for repair	Actual tonnage based on company records	0.41			0.41
18	RESTAURANT								
			No tonnage identified						0.00
19	RESTAURANT								
			No tonnage identified						0.00
20	RESTAURANT								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
21	RESTAURANT								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Donate leftover food	100 pounds per month, company records	0.60			0.60
22	RESTAURANT								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Donate leftover food	60 pounds per month, based on company records	0.36			0.36
23	RESTAURANT								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.03			0.03
24	RESTAURANT								
			Source reduction	Eliminate unnecessary forms	.01 pound per page, CIWMB conversion factor	0.01			0.01
25	RESTAURANT								
			No tonnage identified						0.00
26	RESTAURANT								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
	Total					**6.45**	**5.84**	**0**	**12.28**

Ref. No.	Store name	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	BIG RETAIL							
		Source Recuction	Eliminate paper use	Actual tonnage based on company interview	0.462			0.462
		Source Recuction	Return damaged goods	Actual tonnage based on company interview	11.1			11.1
		Source Recuction	Reuse equipment	Actual tonnage based on company interview	2.0			2
		Source Recuction	Pallet Reuse	Actual tonnage based on company interview	3.8			3.84
		Recycling	Cardboard	Actual tonnage based on company interview		43.2		43.2
2	BIG RETAIL							
		Source Recuction	Return damaged goods	Actual tonnage based on company interview	2.25			2.25
		Source Recuction	Reuse equipment	Actual tonnage based on company interview	0.675			0.675
		Source Recuction	Pallet Reuse	Actual tonnage based on company interview	12			12
		Recycling	Cardboard	Actual tonnage based on company interview		50.16		50.16
		Recycling	mixed paper	Actual tonnage based on company interview		0.84		0.84
3	BIG RETAIL							
		Recycling	Cardboard	Actual tonnage based on company interview		234		234
		Source Recuction	Reuse boxes	Actual tonnage based on company interview	5.28			5.28
4	BIG RETAIL							
		Source Recuction	Pallet Reuse	Actual tonnage based on company interview	312.0			312
		Source Recuction	Reuse packing materials	Actual tonnage based on company interview	2.6			2.6
		Recycling	Cardboard	Actual tonnage based on company interview		366		366
		Recycling	beverage containers	Actual tonnage based on company interview		0.9		0.9
		Recycling	wood	Actual tonnage based on company interview		2.88		2.88
					352.21	697.98	0.00	1050.19

Ref. No.	Business Type	Address	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
1	RETAIL								
			Recycling	Cardboard	2.2 pounds per box, CIWMB conversion factor		2.86		2.86
			Source reduction	Reuse shipping containers	2.2 pounds per box, CIWMB conversion factor	2.64			2.64
2	RETAIL								
			No tonnage identified						0.00
3	RETAIL								
			Less than .01 ton						0.00
4	RETAIL								
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	0.08			0.08
			Source reduction	Donate equipment	Actual tons based on company interview	0.01			0.01
5	RETAIL								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.03			0.03
			Source reduction	Donate cash register	50 pounds per cash register, CIWMB conversion	0.03			0.03
			Source reduction	Reuse polystyrene peanuts	10 pounds peanuts per week, per company interview	0.26			0.26
6	RETAIL								
			No tonnage identified						0.00
7	RETAIL								
			Source reduction	Make fewer copies	1.25 pounds per week, company data	0.03			0.03
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	1.04			1.04
8	RETAIL								
			Source reduction	Store info on disks	.01 pound per page, CIWMB conversion factor	0.02			0.02
9	RETAIL								
			No tonnage identified						0.00
10	RETAIL								
			Recycling	Cardboard	450 pounds per bale, company records		54.90		54.90
			Recycling	Mixed paper	8 pounds shredded paper per 33 gallons, CIWMB		0.09		0.09
			Recycling	Photograhpic film	Actual tonnage based on company records		0.01		0.01
			Recycling	Polystyrene peanuts	6.27 pounds per 33 gallon bag, CIWMB		0.07		0.07
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.07			0.07
			Source reduction	Store info on disks	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Reusable containers	2.2 pounds per box, CIWMB conversion factor	28.60			28.60
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	0.92			0.92
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	52.80			52.80
			Source reduction	Returns damaged goods	Actual tonnage based on company records	7.20			7.20
11	RETAIL								
			Recycling	Aluminum cans	Actual tonnage based on company records		0.10		0.10
			Source reduction	Sell or donate used equipment	Actual tonnage based on company records	0.75			0.75
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	28.80			28.80
			Source reduction	Reusable containers	2.2 pounds per box, CIWMB conversion factor	1.32			1.32
			Source reduction	Damaged goods returned to vendor	Actual tonnage based on company records	0.78			0.78
12	RETAIL								
			Recycling	Cardboard	900 pounds per bale, per company records		75.60		75.60
13	RETAIL								
			Less than .01 ton						0.00
14	RETAIL								
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	19.20			19.20
15	RETAIL								
			Source reduction	Reusable coffee mugs	.0417 pounds per cup, EPC	0.03			0.03
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.03			0.03
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	1.58			1.58
			Source reduction	Reusable containers	2.2 pounds per box, CIWMB conversion factor	1.06			1.06

Ref. No.	Business Type	Address	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction Tons	Recycling Tons	Compost Tons	Total Tons
16	RETAIL								
			Source reduction	Make fewer copies	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.02			0.02
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	0.37			0.37
17	RETAIL								
			Recycling	Cardboard	Actual tonnage based on company interview		5.20		5.20
			Source reduction	Double sided copies	.01 pound per page, CIWMB conversion factor	0.02			0.02
18	RETAIL								
			No tonnage identified						0.00
19	RETAIL								
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.02			0.02
20	RETAIL								
			Source reduction	Post notices on bulletin boards	.01 pound per page, CIWMB conversion factor	0.01			0.01
21	RETAIL								
			Recycling	Other plastic	Actual tonnage based on company records		1.20		1.20
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB conversion	0.02			0.02
			Source reduction	Reusable containers	2.2 pounds per box, CIWMB conversion factor	0.26			0.26
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	0.96			0.96
22	RETAIL								
			Source reduction	Order electronically	.01 pound per page, CIWMB conversion factor	0.03			0.03
			Source reduction	Reusable boxes	2.2 pounds per box, CIWMB conversion factor	2.64			2.64
23	RETAIL								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.03			0.03
24	RETAIL								
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Reuse containers	2.2 pounds per box, CIWMB conversion factor	0.11			0.11
25	RETAIL								
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	1.43			1.43
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	5.20			5.20
			Source reduction	Reusable containers	2.2 pounds per box, CIWMB conversion factor	1.72			1.72
26	RETAIL								
			Less than .01 ton						0.00
27	RETAIL								
			Source reduction	Reusable coffee mugs	.0417 pounds oer cup, EPC	0.05			0.05
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	0.45			0.45
28	RETAIL								
			No tonnage identified						0.00
29	RETAIL								
			Recycling	Cardboard	Actual tonnage based on company records		12.00		12.00
			Source reduction	Order electronically	.01 pound per page, CIWMB conversion factor	0.01			0.01
			Source reduction	Post notices	.01 pound per page, CIWMB conversion factor	0.03			0.03
			Source reduction	Send toner cartridges for refilling	2.5 pounds per toner cartridge, CIWMB	0.05			0.05
			Source reduction	Reusable containers	2.2 pounds per box, CIWMB conversion factor	10.56			10.56
30	RETAIL								
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	0.69			0.69
			Source reduction	Reuse pallets	40 pounds per pallet, CIWMB conversion factor	2.08			2.08
31	RETAIL								
			Source reduction	Reuse boxes	2.2 pounds per box, CIWMB conversion factor	0.11			0.11
32	RETAIL								
			Less than .01 ton						0.00
33	RETAIL								
			No tonnage identified						0.00
	Total					**174.17**	**152.04**	**0**	**326.20**

Residential Waste Prevention Activity Calculations

Extrapolated Tons	Surveyed Tons			Source	
		1 Household Item Donation			
	36580	118.00	Pounds per household	Survey	
		94.2%	Percent of households participating	Survey	
	18.29	17,069	Number of households		
		16,079	Participating households		
931.43	17.23	**948.66**	Tons per year		
		2 Household Garage Sales			
	29450	95.00	Pounds per household	CIWMB	
		9.4%	Percent of households participating	Survey	
	14.725	17,069	Number of households		
		1,604	Participating households		
74.83	1.38	**76.21**	Tons per year		
		3 Shopping Bag Reuse			
	62000	200	Bags per household per year	Survey	
		18%	Percent of households participating	Survey	
	31	17,069	Number of households		
		3,072	Participating households		
32.83	5.58	**38.41**	Tons per year		
		4 Junk Mail Reduction Program			
	3720	12	Pounds per household per year	Survey	
		25%	Percent of households participating	Survey	
	1.86	17,069	Number of households		
		4,267	Participating households		
25.14	0.47	**25.60**	Tons per year		
		5 Washable Dipaer Use			
		260,000	Diapers per year	Survey	
		0.44	Pounds per diaper	Survey	
57.20		**57.20**	Tons per year		
		6 On-Site Composting			
	132912.5	429	Pounds per household	Survey	
		13%	Percent of households participating	Survey	
	66.45625	13,315	Number of households		
		1,758	Participating households		
368.01	8.77	**376.78**	Tons per year		
		7 Grasscycling			
	81375	262.5	Pounds per household (750 sq.ft.; 25'x 30')	CIWMB	
		16.8%	Percent of households participating	Survey	
	40.6875	13,315	Number of households		
		2,237	Participating households		
286.76	6.84	**293.60**	Tons per year		
		1,816.46	**Tons of Residential Source Reduction**		561.57
					76.21
				2,301.82	485.36

City Waste Prevention Activity Calculations

	1 City Employee Paper Use Reduction		
	3.5	pounds per employee per week	EPA
	52	weeks per year	
	182	pounds per employee per year	
	3,000	total employees	Survey
	10%	percent reduction in paper use	Survey
	546,000	total pounds per year	
	273	tons per year purchased	
	27.30	tons per year; 10% reduction	
	2 Public Works Inerts Diversion		
	1712	Cubic yards of inerts	Survey
	2,200	Pounds per cubic yard	CIWMB
	3,766,400	Total pounds	
	1,883	Tons diverted	
	3 Grasscycling at City Parks		
	7.62	Tons per acre	CIWMB
	124	Acres of grasscycling	Survey
944.9	944.9	Tons diverted	
	4 Grasscycling at Cupertino High Schools		
	7.62	Tons per acre	CIWMB
	35	Acres of grasscycling	Survey
266.7	266.7	Tons diverted	
	5 Grasscycling at other Cupertino Schools		
	7.62	Tons per acre	CIWMB
	14	Acres of grasscycling	Survey
106.7	106.7	Tons diverted	
1,318	**1,318**	**Tons of Grasscycling**	
	1,883	**Tons of City Recycling**	
	27	**Tons of City Source Reduction**	
	3,229	**Total City Tons**	