

**Base Year Modification Request Certification****Part 1: Generation Study - No Extrapolation 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, (MS-25)  
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 by calling (916) 341-6199.

<b>Section I: Jurisdiction Information and Certification</b>			
<i>All respondents must complete this section.</i>			
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 Chula Vista		County San Diego	
Authorized Signature 		Title Special Operations Manager	
Type/Print Name of Person Signing Michael Meacham		Date June 16, 2003	Phone ( ) Include Area Code (619) 691-5031
Person Completing This Form (please print or type) Jacy Davis		Title Consultant	
Affiliation:	Solana Center for Environmental Innovation		
Mailing Address	City	State	ZIP Code
137 N. El Camino Real	Encinitas	CA	92024
E-Mail Address	jacy@beresourceful.org		

**Section II: Information for New Generation-Based Study for Existing or New Base Year**

Attach additional sheets if necessary—reference each response to the appropriate cell number (e.g., "4").

Note: New base years must be representative of a jurisdiction's disposal and diversion.

1. Current Board-approved existing base year:	2. Proposed new generation-based study year:
1990	2001

3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:

The proposed generation study is representative of Chula Vista's average annual jurisdiction disposal and diversion. It includes solid waste and recycling tonnage from the City's only franchised waste hauler (Pacific Waste Services), regional processing facilities and reduction of disposal for materials (contaminated soil) that were misrecorded as "buried waste" rather than "nonburied waste." The growth in the city has exceeded that of the county, generation of construction and demolition materials has been consistent with such growth.

**4. Enter diversion rate information below.**

Diversion rate calculated using existing base year	a. 18 %	Diversion rate calculated using new generation-based study	b. 54 %
For existing base year pounds/person/day based on generation	7.38	For new generation based study pounds/person/day based on generation	10.54
Residential generation 53 %	Non-Residential generation 47 %	Residential generation 23% %	Non-Residential generation 77% %
Population existing generation-based study	135,160	Population new generation-based study	183,275

5. If there is an increase from 4a to 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples (e.g., change in jurisdiction's demographics).

Chula Vista has a strong history in recycling, they began implementing their city-wide residential and commercial recycling programs in 1990. Historically their diversion rate clearly exceeded the first level diversion goal of 25%, with an achieved diversion rate of 42% in 1995 and 1996. Since that time the diversion rate has declined steadily. This decline coincides with the strong steady population growth realized in Chula Vista; by 1999 the City exceeded their SRRE growth population projection for 2006. The 2006 SANDAG projection was 167,253; the current 2003 population is 204,000. At this pace Chula Vista is the second fastest growing city in the County of San Diego. See Section II addendum attached.

6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)

The difference in diversion rates is greater than 5% points. Several factors contribute to this: residential and business growth has outpaced the region; residential, commercial and industrial recycling programs have been expanded; proactive outreach/education campaigns have promoted recycling and waste prevention services; an error in reporting contaminated soil as "buried waste" rather than non-buried was discovered; and solid waste from regional recycling processing facilities is being deducted. Further, based on the rapid business growth the city has experienced the City believes that utilizing the Employment Development Department data would much more fairly represent the actual activity of our jurisdiction. As an example, according to the EDD the number of employers in 1991 was 529; whereas in 2001 the EDD reports that there are 2,192. Correspondingly, according to EDD records, the average number of persons employed during those same periods were 4,333 and 31,111 respectively. Using the EDD numbers the Chula Vista diversion rate would be approximately 70%. Use of EDD numbers in a growing city such as Chula Vista would be consistent with such use by other jurisdictions in the County, such as Poway, Vista, San Marcos and Carlsbad.

**Base Year Modification Certification Request – Addendum  
City of Chula Vista  
June 16, 2003**

**Section II.**

5.) New housing starts in Chula Vista are higher than the rest of the County, thereby significantly increasing the disposal of construction and demolition debris. A specific example of growth and building increases pertain to the 1997 annexation of Otay Ranch, approximately 25 square miles of land upon which 12,000 new homes have been built through 2001. An estimated 28,000 additional new homes are projected to be built from 2002 through 2010. With the increase in building, both residentially and commercially, the pounds per person per day increased from 7.38 to 10.54 pounds. To address these differences the City has implemented a variable rate residential disposal program and increased the residential curbside recycling container size from 18 gallons to a 64 or 96 gallon cart. This change resulted in a 100% increase in monthly diversion of curbside recyclables by all households. The City has also increased its promotion of commercial recycling programs by employing an additional Recycling Specialist and is proactively involved in promoting C&D recycling by Co-Chairing a County-wide effort to develop a regional C&D Ordinance.

7. Disposal Tonnage (enter values):	42537	122744	165281
	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 Request and Modification Certification sheet found at [www.ciwm.ca.gov/LGCentral/Forms/rytmrdq.doc](http://www.ciwm.ca.gov/LGCentral/Forms/rytmrdq.doc))

c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at [www.ciwm.ca.gov/LGCentral/Forms/rytmrdq.doc](http://www.ciwm.ca.gov/LGCentral/Forms/rytmrdq.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, agricultural wastes, inert solids [e.g., concrete, asphalt, dirt,] white goods, and scrap metal, please identify those programs/waste types and fill out Section 10. Please mark as Attachment 8 all copies of survey forms.

\*Please provide detailed Non-Residential waste 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 substantiating your claim.

Diversion Activity	Actual tons	Relative Percent to Total Generation	Specific Material Type(s) (List operation w/multiple materials in one box)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at: <a href="http://www.ciwm.ca.gov/LGCentral/Pages/Codes/Reduce.htm">www.ciwm.ca.gov/LGCentral/Pages/Codes/Reduce.htm</a>					
<b>Residential Source Reduction Activities</b>					
Backyard composting					
Grasscycling		0.0%			
<b>Other Residential Source Reduction (list each program separately)</b>					
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
Enter program name		0.0%			
<b>Subtotal, Residential Source Reduction</b>	0	0.0%			
<b>Residential Recycling Activities</b>					
Curbside Recycling	8812	2.4%	Mixed Paper, Newspaper, Cardboard, Aluminum Cans, Tin Cans, Glass Bottles/Jars, #1 & #2 Plastic Bottles/Jars, CRV Plastic Bottles, Metals	Actual tons per franchise hauler receipts and report	Weight tickets at franchise hauler offices
Buyback Centers	2089	0.6%	Aluminum Cans, Glass Bottles/Jars, CRV Plastic Bottles, Metals	California Department of Conservation - Division of Recycling	DOC - DOR records, Sacramento
Drop-off Centers					

Diversion Activity	Actual tons	Relative Percent to Total Generation	Specific Material Type(s) (List operation w/multiple materials in one box)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at <a href="http://www.clwrk.ca.gov/1_G/Control/Plans/Chaos/Reduce.htm">www.clwrk.ca.gov/1_G/Control/Plans/Chaos/Reduce.htm</a>	(A)	(A/Total Generation)			
<b>Other Residential Recycling (list each program separately)</b>					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal, Residential Recycling</b>	<b>10901</b>	<b>3.0%</b>			
<b>Residential Composting Activities</b>					
<b>Green Waste Drop-off</b>					
Curbside Green Waste	15703	4.3%	Grass, Shrub/Tree Trimmings, Christmas Trees	Actual tons per franchise hauler receipts and report	Weight tickets at franchise hauler offices
Christmas Tree Program					
<b>Other Residential Composting (list each program separately)</b>					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal, Residential Composting</b>	<b>15703</b>	<b>4.3%</b>			
<b>Subtotal, Residential Diversion</b>	<b>26604</b>	<b>7.4%</b>			
<b>Non-Residential Source Reduction Activities:</b>					
<b>Non-Residential Waste Audits*</b>	6321	1.8%	See Section 9	See Section 9	See Section 9
<b>Other Non-Residential Source Reduction (list each program separately)</b>					
Grasscycling on City Properties	2090	0.6%	Grasscycling of lawn clippings	275 acres at 7.6 tons per acre per year	Report from City office
Comm1 Pallet Collector	260	0.1%	See Section 9	See Section 9	See Section 9
Enter program name					
Enter program name					
Enter program name					
<b>Subtotal, Non-Residential Source Reduction</b>	<b>8671</b>	<b>2.4%</b>			

Diversion Activity	Actual tons	Relative Percent to Total Generation	Specific Material Type(s) (List operation with multiple materials in one box)	Specific Conversion Factor Used (if any) and Source	Type of Record and Location of Record
Please use the Board's program types. The program type glossary is online at <a href="http://www.cwmb.ca.gov/LGCentral/Paris/Classes/Reduce.htm">www.cwmb.ca.gov/LGCentral/Paris/Classes/Reduce.htm</a>					
<b>Recycling</b>					
<b>Non-Residential Waste Audits*</b>	2533	0.7%	See Section 9	See Section 9	See Section 9
<b>Other Non-Residential Recycling (list each program separately)</b>					
Franchise Hauler Commercial Recycling	4357	1.2%	Newspaper, Mixed Paper, Cardboard, Aluminum Cans, Steel Cans, #1&#2 Plastic Bottles/Jars, CRV Plastic Bottles, Glass Bottles/Jars	Actual tons per franchise hauler receipts and report	Weight tickets at franchise hauler offices
Franchise Hauler Industrial Recycling	5580	1.5%	Metals, Greenwaste, Wood, Concrete	Actual tons per franchise hauler receipts and report	Weight tickets at franchise hauler offices
Commercial Recyclers	3776	1.0%	See Section 9	See Section 9	See Section 9
Enter program name					
Enter program name					
<b>Subtotal Non-Residential Recycling</b>	<b>16246</b>	<b>4.8%</b>			
<b>Non-Residential Composting Activities</b>					
<b>Non-Residential Waste Audits*</b>	1104	0.3%	See Section 9	See Section 9	See Section 9
<b>Other Non-Residential Composting (list each program separately)</b>					
Miscellaneous Wood/Greenery	4644	1.3%	Woodwaste and Greenery - See Section 9	Actual tons per Organic Recycling West	Weight tickets at ORW
Municipal trimmings	849	0.2%	Greenwaste & City Tree Trimming	Actual tons per franchise hauler receipts and report	City/hauler reports
Diversion at Landfill	198	0.1%	Greenwaste & Wood diverted on landfill pass day	Actual tons per franchise hauler receipts and report	City/hauler reports
Franchise hauler commercial YW	2093	0.6%	Greenwaste, Wood	Actual tons per franchise hauler receipts and report	City/hauler reports
Enter program name					
<b>Subtotal Non-Residential Composting</b>	<b>8888</b>	<b>2.5%</b>			
<b>Subtotal Non-Residential Diversion Residential/Non-Residential Diversion Activities</b>	<b>33805</b>	<b>9.4%</b>			
ADC					
Sludge					
Scrap Metal					
Construction and Demolition	131254	38.3%	Concrete, Metals, Wood, Roof Tiles, Plaster	See Attachment 9. Tally of C&D Diversion Facilities and C&D Contractors.	See Attachment 9
Landfill Salvage	4226	1.2%	Appliances/metals items, Concrete	Actual tons per franchise hauler receipts and report	Weight tickets at franchise hauler offices
<b>Subtotal Residential/ Non-Residential Diversion</b>	<b>135480</b>	<b>37.5%</b>			
<b>Total Res/Non-Res Source Reduction Tons</b>	<b>8671</b>	<b>2.4%</b>			
<b>Total Diversion Tons</b>	<b>195890</b>	<b>54.2%</b>			
<b>Total Disposal Tons from Sec.7</b>	<b>165281</b>	<b>45.8%</b>			
<b>Total Generation Tons (Div+Dis)</b>	<b>361170</b>				
<b>Diversion Rate</b>	<b>54%</b>				

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 largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.

(Table will perform all addition calculations).

Type of Non-Residential Generator	Audit Reference Number	Specific/Major Diversion Activities Include Material Type (e.g., paper recycling, grasscycling). (List activities on one line)	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 ___
Manufacturing	1	Metals, Wood, Cardboard, Mixed Paper, Greenwaste, Plastics, Inerts		2538		2538	0.7%	P with Business and Recycler
School District	2	Grasscycling	1610			1610	0.4%	P
Golf Course	3	Grasscycling	912			912	0.3%	P
Golf Course	4	Grasscycling	836			836	0.2%	P
Golf Course	5	Grasscycling	760			760	0.2%	P
Grocery Store	6	Cardboard, Pallets, Food		559		559	0.2%	P with Business and Recycler
Golf Course	7	Grasscycling	456			456	0.1%	P
Manufacturing	8	Metals		420		420	0.1%	P
Homeowners Assn	9	Grasscycling	335			335	0.1%	P
Homeowners Assn	10	Grasscycling	305			305	0.1%	P
<b>Totals</b>			<b>5214</b>	<b>3517</b>		<b>8731</b>	<b>2.4%</b>	

Also provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage for each diversion activity/material type, and applicable conversion factors/sources. Include copies of survey form(s) used.

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).

Manufacturer 1: monthly reports are provided that include tonnages of materials recycled based on weight tickets from recycler or facility.

Grasscycling: For each of the golf courses an interview was conducted with the Golf Course Superintendent to determine the acreage of turf where the clippings were either left to lay or redibursed. For the "Homeowners Association" the landscape contractors were interviewed to determine the acreage maintained by grasscycling. The CIWMB factor of 7.6 tons/acre/year was utilized.

Manufacturer 2: actuals for 2001 not available so current year actual tonnage was utilized. 20 tons per month on average based on weights from SOS metals. According to manager business was up at least 50% in 2001 thereby estimating metals recycling would average 30-40 tons/month. Utilized 35 ton figure over 12 months, equals 420 tons.

Grocery Store: Information based on receipts provided by cardboard hauler, pallet collector and mgr estimate of food donations (milk and bread) to Salvation Army, Mexico and Church.

10. 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 (e.g., "Diversion conducted by city public waste dept.").

Restricted Waste Type	Specific Program Name	Year Started	Tonnage
Inert Solids	Construction Residue Recycling Site	1998	10405
Inert Solids	Inert Materials Recycling/Otay landfill C&D recovery	2001	28000
Inert Solids	Amswede/Amswede C&D recovery	1995	377
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 - and if documentation on the program and waste type has not been approved by the Board - on a separate sheet marked "Attachment 10b", provide the documentation that indicates:

- 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.
- That the jurisdiction is implementing, and will continue to implement, the diversion programs in its source reduction and recycling element.

**Note:** If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.

Instead please provide date of Board approval of previously submitted information.

\_\_\_\_\_ (Date)

If documentation is not available, go to 10d.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b 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 10b 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
Inert Solids	Re-Rock C&D facility	139100	55619	83481
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				

Business Audit Diversion for the City of Chula Vista

Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction	Recycling	Composting	Total Tons
1	Manufacturer	Recycling	Cardboard	Weight Tickets/Reports from Hauler:Resource Mgmt Group		117		117
		Recycling	Mixed Paper	Weight Tickets/Reports from Hauler:Resource Mgmt Group		96		96
		Recycling	Plastics	Weight Tickets/Reports from Haulers: SOS Metals, Levine Drum		20		20
		Recycling	Metals	Weight Tickets/Reports from Haulers:SOS Metals, Levine Drum		834		834
		Composting	Greenwaste	Weight Tickets/Reports from Hauler:Resource Mgmt Group			45	45
		Composting	Wood	Weight Tickets/Reports from Hauler:Resource Mgmt Group			389	389
		Reuse	"Specialty" Mixed	Weight Tickets/Reports from Hauler:Resource Mgmt Group or estimates of surplus equipment/supplies sold through company salvage program	1,038			1,038
				1,038	1,067	434	2,539	
2	School District	Reuse	Grass	9,226,000 square feet = 211.8 acres*7.6 tons/acre/year	1,610			1,610
					1,610			1,610
3	Golf Course	Reuse	Grass	120 acres * 7.6 tons/acre/year (CIWMB)	912			912
					912			912
4	Country Club	Reuse	Grass	110 acres * 7.6 tons/acre/year (CIWMB)	836			836
					836			836
5	Golf Course	Reuse	Grass	100 acres * 7.6 tons/acre/year (CIWMB)	760			760
					760			760
6	Grocery Store	Recycling	Cardboard	Tonnage provided by recycling collector: Recycled Fibers		400		400
		Recycling	Pallets	Tonnage provided by recycling collector: JI-Mex, (300 pallets every 2 weeks. 300 pallets * 40lbs * 26wks)/2,000	156			156
		Reuse	Food	Food given away, estimate provided by manager - milk and bread doanted to Salvation Army, Mexico, Church	3			3
				159	400		559	
7	Country Club	Reuse	Grass	60 acres * 7.6 tons/acre/year CIWMB	456			456
					456			456
8	Manufacturer	Recycling	Metals	Based on acutal tonnage reports, currently averages 20 tons/month. Business was up 50% in 2001, mgr estimates average of 30-40 tons per month; actually used 35 tons per month.		420		420
						-	420	
9	Home Owners Assoc	Composting	Greenwaste	Report from landscaper: Shooters			335	335
							335	335
10	Home Owners Assoc	Reuse	Grass	Landscape contractor maintains 40 acres * 7.6 tons/acre/year	305			335
					305		671	335
11	Hospital	Recycling	Cardboard	Bale weight according to Manuf Rep 850-1,000 lbs. 4 bales/week * 52 * 850lbs = 176,800lbs/2,000 = 88.4 tons		88		88
		Reuse	Pallets	Average of (35 pallets/week * 40lbs * 50 wks) / 2,000 = 35 tons	35			35
		Recycling	Office Paper	Paper is recycled through Shred-It. Average of 18,560 lbs/mo per recyclers reports for 2002-3 -- 2001 level of service was consistent. (18,560lbs * 12mos)/2,000 = 99 tons		99		99
					35	188	-	223

12	Manufacturer	Recycling	Film Plastic	Based on actual tonnage reports, currently averages 1,000 lbs/week * 40 weeks = 40,000. Conservative projection is that business in 2001 was 10% higher; therefore, 40,000 + 10% = 44,000lbs/2,000 = 22 tons			22		22	
		Recycling	Baled Cardboard	Based on actual tonnage reports, currently averages 20,000 lbs/month * 12 months = 240,000lbs + 10% = 264,000lbs/2,000 = 132 tons			132		132	
		Recycling	Loose Cardboard	Based on actual tonnage reports, currently averages 1 Roll-off bin per month @ 1,000 lbs * 40 weeks = 40,000lbs + 10% = 44,000/2,000 = 22			22		22	
		Reuse	Pallets	50 pallets/week * 40weeks * 40lbs = 80,000 + 10% = 88,000/2000 = 44 tons			44		44	
							44	176	-	220
13	Retail	Recycling	Cardboard	Based on reports from recycler, bale weight 697lbs * 344 bales = 239,768lbs/2,000 = 120 tons			120		120	
		Recycling	Hangers	Based on reports from recycler. 120 boxes = 21lbs. 3 shipments * 120 * 21lbs = 7,560/2,000 = 3.78			4		4	
							-	124	-	124
14	Manufacturer	Recycling	Cardboard	50 gaylords every 2 weeks @ 30lbs each. (50*26*30)/2,000 = 19.5 tons			20		20	
		Recycling	Plastic	Based on actual weights. (17,000lbs/mo * 12)/2,000 = 102 tons			102		102	
							-	122	-	122
15	Thrift Store	Recycling	Textiles	1,000 lb bale. Every other month ships 36,000-40,000lbs, used 38,000lbs * 6 months = 228,000lbs. 2001 sales were 20% less, equaling 182,400lbs. Chula Vista percent of whole estimated at 40%, equals 72,960lbs/2,000 = 36.48 tons			36		36	
		Reuse	Hard Goods: Furniture, appliances, etc)	Manager estimates based on trends that "hard goods" donations equals a "double" of textiles tonnage. Since this factor is only based on recycled rather than received textiles number was felt to be very conservative. Therefore, 36.48 * 2 = 72.96 tons			73		73	
							73	36	-	109
16	Thrift Store	Reuse	Textiles, Furniture, Appliances	Based on interview with manager (30 years experience). Used totals for County, broke down to daily totals, correlating to % they believe to represent Chula Vista. Of the total 98 tons received, 57% is saleable and recyclable = 56 tons. (includes 11.1 tons scrap metal, .4 tons of E-Waste)			56		56	
							56	-	-	56
17	Bakery	Reuse	Tortillas	Estimate by owner, 3 individuals currently take away 2,000lbs/week of "spoiled" tortillas for animal feed. Business in 2001 was down, approx 1,500lbs per week * 50 weeks = 75,000lbs/2000 = 37.5 tons			38		38	
							38		38	
<b>TOTALS</b>							<b>6,321</b>	<b>2,633</b>	<b>1,104</b>	<b>9,653</b>

Recyclers Audit Diversion for the City of Chula Vista

Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction	Recycling	Composting	Total Tons
R-1	Community Recycling	Recycling	Cardboard	Reports from Hauler: Community Recycling		1,128		1,128
		Recycling	Plastic	Reports from Hauler: Community Recycling		41		41
		Composting	Organics: Food/Wood	Reports from Hauler: Community Recycling			683	683
		Recycling	Rendering	Reports from Hauler: Community Recycling		104		104
					0	1,271	683	1,954
R-2	Resource Management Group	Recycling	Cardboard	Hauler tonnage report for collection at two COSTCO sites		1,178		1,178
					0	1,178	0	1,178
R-3	Recycled Fibers	Recycling	Cardboard	Actual weights from hauler - Target and Kmart locations		701		701
					0	701	0	701
R-4	Darling International	Recycling	Cooking Oil	Actual tickets from hauler		475		475
					0	475	0	475
R-5	Ji-Mex	Reuse	Pallet	Actual count of pallets @ 40lbs each	260			260
					260	0	0	260
R-6	Allan Company	Recycling	Cardboard	Actual weights from hauler		32		32
		Recycling	Mixed paper	Actual weights from hauler		68		68
					0	100	0	100
R-7	Urban Corps	Recycling	Beverage Containers	Actual weights from hauler		35		35
					0	35	0	35
R-8	San Diego Fibers	Recycling	Cardboard	Actual weights from hauler		18		18
					0	18	0	18
R-9	Organic Recycling West	Composting	Greenwaste	Based on report provided by ORW			1,381	1,381
		Composting	Woodwaste	Based on report provided by ORW			2,580	2,580
					0	0	3,961	3,961
<b>Totals</b>					<b>260</b>	<b>3,776</b>	<b>4,644</b>	<b>8,679</b>

**Construction and Demolition Diversion Facilities for City of Chula Vista**

Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction	Recycling	Composting	Total Tons
CD-1	Re-Rock	Recycling	Concrete	Currently processes 1,000 tons per day 3-4 days (3.5) per week (1,000*3.5*52=182,000 tons annually). Of that, in 2001 owner estimated 107 loads/week at 25 tons/load for 52 weeks (139,100 tons) were received from contractors working in Chula Vista. 139,100/182,000=76.4% is estimated as Chula Vista based. Since facility operated in Chula Vista pre-1990, 76.4% of 1990 tonnage (55,619 tons) is deducted from 2001 tonnage leaving a difference of 83480.8 tons.		83,481		83,481
					0	83,481	0	83,481
CD-2	Resource Management Group / Inert Materials Recycling	Recycling	Concrete	Concrete recycling project co-located at Otay landfill. Based on total tonnage brought to site from recycler's records, it was estimated that 29% of the materials delivered to site were from Chula Vista based projects.		28,000		28,000
					0	28,000	0	28,000
CD-3	Construction Residue Recycling	Recycling	Concrete	Business operates 6 days per week. Owner estimates that five 10-wheelers per day come in at 14 tons/load = 420 tons/week; five bobtails per day come in at 9 tons/load = 270 tons/week. Total is 690 tons/week * 52 weeks = 35,880 tons annually. Projections from landfill recovery project were that 29% of the materials delivered to site were from Chula Vista based projects. Site started in 1998.		10,405		10,405
					0	10,405	0	10,405
CD-4	Amswede/Amswade	Recycling	Metal	Based on 4 months of actual tonnage reported to County in 2002, according to owner business was off 20% for 2001 - tonnage was annualized and reduced by 20%. Of total facility tonnage owner estimates that Chula Vista based projects are 8%.		53		53
		Recycling	Organics	Same			84	84
		Recycling	Concrete	Same		25		25
		Recycling	Sol/Fill	Same		215		215
					0	293	84	377

Totals 0 122,179 84 122,263

Construction and Demolition Contractors Audits for City of Chula Vista

Reference Number	Business Type	Diversion Activity	Material Type	Conversion Factor and Source	Source Reduction	Recycling	Composting	Total Tons
CDC-1	John Smith Earth Works	Recycling	Concrete	4,000 yards of concrete crushed on-site. 1,855 lbs/yard per Tellus.		3,710		3,710
		Recycling	Metals	Same project: four 40-yard bins of rebar estimated at 3 tons/load = 12 tons. 600 feet of I-beams at 225 lbs/foot = 67.5 tons		80		80
		Recycling	Wood	Same project: three flatbed semi-trucks estimated at 30 tons each were transported to Mexico		90		90
					0	3,880	0	3,880
CDC-2	Willcock Contracting	Recycling	Concrete	Estimated of concrete crushed on-site 3,000 tons.		3,000		3,000
		Recycling	Metals	Four 40-yard loads of rebar @ 3 tons/load = 12 tons		12		12
		Recycling	Wood	Twenty flatbed trucks estimated at 10 tons/load = 200 tons		200		200
		Reuse	Fixtures	Two moving vans full of fixtures removed from facility		2		2
					0	3,214	0	3,214
CDC-3	Capacity Construction	Recycling	Wood	Estimated 5-10 tons per day, consistently averaging 2 days per week for 50 weeks per year. used 7 tons*2*50=700 tons		700		700
		Recycling	Plaster/Tile	Estimated 8-15 tons per day, consistently averaging 2 days per week for 50 weeks per year. used 11 tons*2*50=1,100 tons		1,100		1,100
								0
					0	1,800	0	1,800
CDC-4	HVAC	Recycling	Metal	15% of jobs are in Chula Vista. Recycles 1 Roll-off/wk w/ ave 9 tons steel, I-beams, little rebar = 468 tons/year. 30,000 lbs of cast iron/mo = 180 tons/year. 15% of 648 tons = 97.2 tons per year		97		97
					0	97	0	97

Totals 0 8,991 0 8,991