



Evan Blackwell
The Disposable Heroes series, 2005
Various plastics
22 x 10 x 17 inches

Economic Analysis of New Waste Prevention and Recycling Programs

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This paper briefly describes two economic models used to produce the recommended new waste prevention and recycling programs in Seattle's 2011 Solid Waste Plan. The first is the Recycling Potential Assessment (RPA) Model which is a model that forecasts tonnages and financial costs and benefits. The second is Measuring the Environmental Benefits Calculator (MEBCalcTM) model used to calculate the environmental benefits from the same set of programs.

Recycling Potential Assessment (RPA) Model Summary

Seattle Public Utilities uses the Recycling Potential Assessment (RPA) Model to

- forecast waste generation
- calculate estimates of tonnages that can be diverted from landfill due to recycling, waste reduction and composting
- provide financial cost and benefit estimates for each of the scenarios analyzed in the model

The purpose of this section is to give a summary of the design of the RPA and how it works.

Model Definitions

The RPA model actually consists of two separate RPA models: one for the municipal solid waste (MSW) stream and one for the construction and demolition debris (C&D) waste stream. The MSW and C&D RPA models are structured very similarly, so this overview is written generally to apply to both models. There is a slight difference between the two models, since in C&D we have beneficial uses as well as recycling. The differences will be pointed out as the models are described.

The waste streams are defined, not so much by the materials that are included in them but in the method and location of disposal. Waste collected from within Seattle, and taken to transfer stations and transferred into containers for transportation to the MSW landfill in Arlington, Oregon, is considered MSW waste (or "garbage"). The waste collected separately under the C&D collection contract--destined for disposal in a C&D landfill--is considered C&D waste.

On the other hand, recycling tonnages are credited to either the C&D sector or the MSW sector depending on the recycled material. For example, any recycled wood waste is counted towards the C&D recycling rate. Plastic film is counted towards the MSW recycling rate, even though plastic film occurs in both the C&D and MSW waste streams. The material accounting is handled in this fashion because, in a lot of cases, the recycling reports SPU uses to track recycled materials are not specific enough for us to tell where the material would have been disposed (in a C&D vs MSW landfill) had it not been recycled.

Four Modules

Four main modules comprise the RPA model: Waste Generation, Recycling Tonnages, Cost Module and Reporting Module.

Waste Generation Module

The first step in the RPA model is to forecast the amount of waste generation in Seattle, broken down into three sectors for the MSW model (Residential Single Family and Multi-Family, Commercial and Self Haul). The C&D model just has one overall sector. The forecast estimate equations use econometric techniques and include a variety of economic, demographic, price and weather variables.

Each forecasted waste stream is then further broken down into 20 material types, based on the waste stream composition data Seattle regularly collects. The model forecasts waste generation, by sector by material, out 30 years.

Recycling Tonnages Module

The next step is the recycling module, which contains data about existing programs and assumptions about new programs.

Existing recycling and composting programs are modeled based on how much they are currently diverting (the existing recovery rate). Detailed recycling data is collected on a regular basis for programs such as the Seattle's curbside recycling program (which is implemented under a contract with Seattle). Daily "truck level" data is available for total tons collected for each program, and periodic recycling composition data is used to separate the tons collected into the material detail. For other programs, such as most of the commercial recycling (which is collected privately), tons recycled come from an annual report all recyclers in Seattle are required to submit as part of their business license renewal. These reports have annual tons collected by material.

New recycling programs are modeled using judgment as to the ultimate recovery rate a program is projected to achieve, and the "ramp" (or path) the program follows from the time is starts until it reaches a steady recovery rate. The model is set up to run "scenarios," which are groups of programs that are assembled according to some overall themes or scenario descriptions. A base

scenario typically models existing recycling programs (without any new programs). Other scenarios then layer on top of the base existing programs.

For each new program, parameters are developed that include what sector and material the program will address, the year the program starts and the new program's ramp. When a new program is included in a scenario that targets the same material that an existing program does, the new program has available to it what remains after the existing program is attributed its tonnages. For example, we have a curbside organics program that diverts food waste, and if we then want to model a program that makes the food waste mandatory, the tons attributed to the new mandatory program are the additional tons diverted after the existing program tons are calculated.

Financial Costs and Benefits Module

The next step in the model is to calculate program costs and financial benefits. The calculations use the factors in the waste generation and recycling tonnages modules just described.

For **program costs**, each program can be modeled using a variety or types of costs. The intention is to model program costs at a detailed enough level so that as program recovery rates are varied, costs will vary in a meaningful way. Programs can have fixed and/or variable cost components. The variable components can vary by household, employee, or tons. Programs can also have capital costs, and the life of the capital can be set to reflect what makes sense for that program's capital types. Examples of typical program costs are: costs of collection, bin or cart cost, education, and processing costs.

The **financial benefits** of recycling include costs we do not have to incur—which is the cost to have recyclable material handled as garbage and disposed in a landfill. When we recycle, tons of material are diverted from garbage and no longer need collecting, transferring, hauling to the rail head, and landfilling. There are savings at each step of the way and these savings are the direct financial benefits to recycling. These are often described as "avoided costs".

In order to calculate these benefits, the model needs to have, as inputs, the variable part of the cost to collect, transfer, transport and dispose of the MSW or C&D. Not all of the costs of collecting a ton of garbage are saved when the ton is diverted to recycling. Only the part of the costs that vary with tons is saved. For example, the variable part of the residential collection cost is calculated based on SPU's collector contracts. Contractors are reimbursed for collection based on a formula that has fixed and variable components. When tonnages vary, we can estimate the effect on the contractor payment using the formula in the collection contract. (The formulas in the contract were developed to try to reflect the reality of how collection costs are accrued. There are large fixed costs associated with collection, including the trucks and the costs to weekly drive by each household, for example. The variable portion of the costs is small for collection since the truck must pass by the household each week, regardless of the amount of waste that is put out for disposal.)

Similarly, we have transfer station and haul cost models which we use to determine the variable portion of these two functions. Finally, disposal costs are considered to be 100% variable with tons. This is because for MSW we have a long-term contract where we pay a per-ton fee for rail haul and disposal, and the fee does not depend on how many tons are delivered.

The cost model uses the above information in the calculation of the financial benefits of recycling. (A second group of benefits, the environmental benefits of recycling, are handled outside of the RPA model and will be described in the next section.) The result of the cost model is the additional costs of adding the recycling program (which include education, collection, any capital costs, processing, etc), and the benefits (or avoided costs) of not having to collect the material for disposal in a landfill.

Reporting Module

The final module in the RPA model is simply used to develop reports so detailed results of each model run can be presented as needed. Results reported include displaying the tons recycled by year by material and by program. Reports also show the recovery rate for each material by sector, and an overall recycling rate. The C&D model shows a second rate, that we call the "beneficial use" rate. This rate includes tons that are diverted from disposal to be used for energy production or landfill cover. The report tables following this write-up are examples of the reports generated by the reporting module.

Environmental Benefits to Recycling

Beginning with the 2004 Plan Amendment "On the Path to Sustainability" SPU has been estimating a series of external benefits to recycling. This section describes the steps used to model these external benefits. We start by introducing some background on the methodology, followed by more detail on how environmental benefits are quantified. The results of applying the methodology are shown in the 2 charts placed at the end.

Introduction

Handling and disposal of waste causes external environmental costs and benefits. Externalities are impacts on the environment that are not "counted" in the price (cost) of the activity.

For example, using recycled instead of virgin feedstock to manufacture paper, aluminum cans or tin cans creates measureable environmental benefits. Many of these benefits are from reduced energy use in the production process and associated avoided emissions. There are also measureable benefits of diverting organics from landfills. Landfilled organics produce methane, a powerful greenhouse gas. We have been working over the past couple of years to be able to both quantify and monetize these benefits.

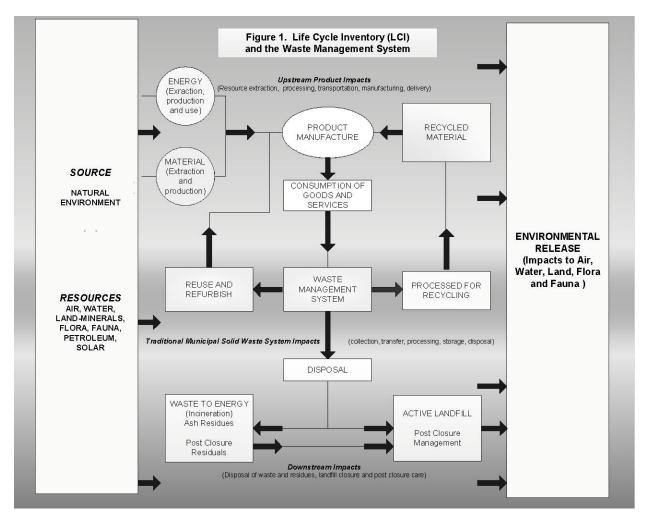
There has been extensive research in the area of quantifying these external benefits over the past 25 years. An important early research initiative was a seminal study done by the Tellus Institute (Tellus Institute, The Council of State Governments, US EPA, and New Jersey Department of Environmental Protection and Energy, CSG/Tellus Packaging Study: Assessing the impacts of production and disposal of packaging and public policy measures to alter its mix, May 1992). This study examined both the upstream effects of using recycled material versus virgin material in the production of new products. It also looked at the downstream effects of additional trucks on the streets, and reduced materials at landfills.

The US EPA has extensive information on their website on this topic (e.g., see http://www.epa.gov/osw/conserve/rrr/recycle.htm). EPA also funded the development of a solid waste planning tool, the MSW Decision Support Tool (DST), which optimizes on cost, recycling percentage or levels of pollution (see http://www.epa.gov/osw/nonhaz/municipal/pubs/ghg/f02024.pdf).

SPU has used the DST tool, and upstream effects information provided in the database that supports the tool, to examine the externalized costs of some of its recycling programs.

SPU now uses the MEBCalcTM tool to estimate and quantify the environmental value of recycling programs. This tool takes into account the environmental costs of collection, processing and hauling activities needed for recycling. These environmental costs are deducted from the environmental benefits of producing products using recycled rather than virgin feedstocks.

The following graphic illustrates material flow and the types of externalities associated with the life cycle of materials.



How External Benefits Are Quantified and Monetized

Going from the tons of a variety of recycled materials to a dollar value of the environmental benefit involves a series of steps. First, recycled/composted tons, by material, are taken from the outputs of the RPA Model. Then a variety of tools and databases (described below) provide information on quantities of pollutants that are not produced when material is recycled or composted instead of being thrown away.

For example, manufacturing a new aluminum can using a recycled can uses less energy--which results in the release of fewer pollutants due to the lower energy requirement. Less pollution

means lower public health and other environmental impacts from producing the aluminum can. Based on the costs that pollution causes for public health and the environment, we then can calculate the cost savings from making the aluminum can out of a recycled can rather than newly mined bauxite and other virgin raw materials.

Large numbers of pollutants are reduced for each of the life cycle environmental impacts (described below) for all of the recycled and composted materials. This is handled by using one pollutant as an index for each of these impacts. The most familiar example is CO2 used as the index for global warming. If methane is one of the pollutants reduced due to recycling or composting, this is expressed in units of CO2. All the other pollutants that contribute to global warming are also expressed in units of CO2, and this allows them to be added together. Hence the term CO2 equivalents. The next step is then to place a value on (i.e., monetize) the reduction in CO2. This step of monetization allows all the life cycle impacts to be summarized in dollars, and added onto the financial costs and benefits of recycling calculated in the RPA model.

The current status of the art of quantifying external environmental benefits provides monetary values on at least 7 different types of environmental impacts. This allows us to represent some of the upstream savings when material is recycled instead of disposed. The next section describes the 7 damages (impacts) we have valued, followed by a discussion of other impact categories and benefits not quantified.

Life Cycle Impact Categories: Short Description & Estimates of Impact Cost

The following descriptions of the 7 impact categories, or indices, are based on Jane Bare, TRACI 2.0: the tool for the reduction and assessment of chemical and other environmental impacts 2.0, *Clean Technologies and Environmental Policy*, 2011 13(5) 687-696. This article provides additional detail on environmental impact categories. The 7 impact categories include

- 1. Global warming potential
- 2. Acidification potential
- 3. Eutrophication potential
- 4. Respiratory Human Health Impact Potential
- 5. Non-Cancer Human Health Impact Potential
- 6. Cancer Human Health Impact Potential
- 7. Ecological toxicity potential

1. Global Warming Potential

This index characterizes greenhouse effect increase due to emissions generated by humankind. Life Cycle Analyses (LCAs) often use a 100-year time horizon to frame the global warming potential of greenhouse gases. For example, carbon dioxide (CO2) from burning fossil fuels to generate energy is the most common source of greenhouse gases. Methane from anaerobic

decomposition of organic material is another large source of greenhouse gases. The index often used for global warming potential from greenhouse gas releases is quantities of CO2 equivalents.

Estimates of the dollar cost of a ton of greenhouse gases, measured as CO2 equivalents, range quite widely. At the low end, an estimate could be based on prices for emissions permits traded under voluntary greenhouse gas emission limitation agreements, which hover around \$1 per ton CO2. A high-end estimate could be based on the \$85 per metric ton cost developed in Nicholas Stern, The Economics of Climate Change: The Stern Review. Cambridge and New York: Cambridge University Press, 2007. There are even higher estimates for the cost of carbon emissions. However, for this evaluation we used \$40 per ton of CO2 emissions.

2. Acidification Potential

This index characterizes the release of acidifying compounds from human sources, principally fossil fuel and biomass combustion, which affect trees, soil, buildings, animals and humans. The main pollutants involved in acidification are sulfur, nitrogen and hydrogen compounds – e.g., sulfur oxides, sulfuric acid, nitrogen oxides, hydrochloric acid, and ammonia.

There are economic benefits of recycling due to reductions in the releases of acidifying compounds. These reductions are due to decreased reliance on virgin materials in manufacturing products. is The index often used for acidification potential is sulfur dioxide (SO2) equivalents.

One impact cost estimate (of releases of acidifying compounds) is provided by the spot market price for SO2 emissions permit trading under the Clean Air Act's cap and trade program. EPA's spot market auctions for emissions permits for the years 2005 through 2010 averaged \$410 per ton SO2. We used this valuation for reductions in releases of acidifying compounds.

3. Eutrophication Potential

This index characterizes the addition of mineral nutrients to soil or water. In both media, adding large quantities of mineral nutrients (such as nitrogen and phosphorous) results in generally undesirable shifts in the number of species in ecosystems, that is, a reduction in ecological diversity. In water, it tends to increase algae growth, which can lead to low oxygen, causing death of species such as fish.

There are economic benefits of recycling associated with the resulting reductions in releases of nutrifying compounds. This decreased release is due to decreased reliance on virgin materials in manufacturing products. For eutrophication potential, the index often used is quantities of nitrogen (N) equivalents.

Our estimate of the impact cost of releases of nutrifying compounds is based on EPA's costeffectiveness analysis for the NPDES regulation on effluent discharges from concentrated animal feeding operations. That analysis estimated that costs up to \$4 per ton of nitrogen removed from wastewater effluents were economically advantageous. (Economic Analysis of the Final Revisions to the National Pollutant Discharge Elimination System Regulation and the Effluent

Guidelines for Concentrated Animal Feeding Operations, EPA-812-R-03-002, December 2002, p. E-9.)

4. Respiratory Human Health Impact Potential

Criteria air pollutants are solid and liquid particles commonly found in the air. These include coarse particles known to aggravate respiratory conditions such as asthma, and fine particles that can lead to more serious respiratory symptoms and disease. The particular criteria air pollutants that cause these human health effects are nitrogen oxides, sulfur oxides, and particulates.

We denominated this impact category in PM2.5 equivalents (particulate matter no larger than 2.5 microns). A mid-range estimate of the human health costs of PM2.5 emissions is \$10,000 per ton, as discussed in Eastern Research Group, *Draft Report: Cost Benefit Analysis for Six "Pure" Methods for Managing Leftover Latex Paint - Data, Assumptions and Methods*, prepared for the Paint Product Stewardship Initiative, 2006.

5. Non-Cancer Human Health Impact Potential:

Under the Life Cycle Initiative of the United Nations Environment Program (UNEP)/Society of Environmental Toxicology and Chemistry (SETAC), various international multimedia model developers created a global consensus model—USEtox—to address an expanded list of substances which might have impacts on human health cancers and non-cancers, as well as on ecotoxicity. The USEtox model adopted many of the best features of these developers' models, and yielded human health cancer and non-cancer toxicity potentials, and freshwater ecotoxicity potentials, for over 3,000 substances including organic and inorganic substances. EPA uses these potentials in its TRACI 2.0 software (*Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts*).

The economic benefits of recycling include reductions in releases of compounds toxic to humans. These toxic reductions are due to decreased reliance on virgin materials in manufacturing products. Tons of toluene is used as the human toxicity potential index.

As discussed in Jeffrey Morris and Jennifer Bagby, Measuring Environmental Value for Natural Lawn and Garden Care Practices. *International Journal of Life Cycle Assessment*, 2008, 13(3) 226-234, a mid-range estimate of \$118 per ton of toluene equivalents is a reasonable estimate to monetize non-cancer human health impacts caused by substances such as mercury, toluene and acrolein.

6. Cancer Human Health Impact Potential:

A mid-range estimate of \$3,030 per ton of benzene equivalent releases to air is used to monetize cancer human health impacts caused by emissions of substances such as formaldehyde, benzene and mercury.

7. Ecological Toxicity Potential:

EPA, in its TRACI 2.0 software, also provides toxicity equivalency potentials that measure the relative potential for harm to terrestrial and aquatic ecosystems from chemicals released into the environment. The estimated cost to ecosystems of chemical releases is \$3,280 per ton of 2,4-D herbicide equivalents released to waterways, as discussed in Morris and Bagby (2008). This may be a very conservative cost estimate based on the citation by Eastern Research Group (2006) of remediation costs for 2,4-D removal of \$368,000 per ton.

Impact Categories Not Yet Quantified, Material Types Not Yet Evaluated, And **Externalized Costs Underestimated**

Currently, economic benefits estimates for SPU recycling programs do not include any benefit estimates for several materials such as gypsum wallboard, household batteries, carpet and paint. LCA research is currently underway so that these materials can be included in future calculations of recycling's environmental benefits.

Environmental impact and resource depletion impacts include the following categories that are not presently included in our quantification of benefits. This is due to the absence of emissions data for the specific pollutants tracked under some of these categories, the lack of quantitative measures to relate emissions to impacts, and/or the absence of well-researched monetization estimates:

- 1. Fossil Fuel Depletion Potential
- 2. Habitat Alteration Potential
- 3. Smog Formation Potential
- 4. Ozone depletion Potential
- 5. Indoor Air Quality
- 6. Water Intake

Estimates of damage costs may underestimate the actual costs, to future generations, of current releases of pollutants and depletion of resources. This seems a particularly acute problem for ecosystem impacts, given our currently limited understanding of long run impacts from

- accelerated species extinctions and decreases in biodiversity, and
- associated decreases in various aspects of ecosystems' ability to, among other things, cycle nutrients, clean our air and clean our water.

Future costs from cumulative impacts of global warming are also difficult to predict.

Finally, estimates of human health costs from toxic and carcinogenic releases do not presently appear to account adequately for impacts (cumulative and interactive) of many of the chemical releases to the environment. There may be as many as 75,000 to 100,000 chemical compounds used in industrial processes and commerce.

To put this into perspective, our seven impact categories quantify releases to air and water for less than a thousand substances. The MSW Decision Support Tool (DST) developed under sponsorship of EPA provides full life cycle quantification for releases of just ten air pollutants and seventeen water pollutants. The DST database provides upstream quantification of releases for recycled-versus virgin-content manufacturing (including the extraction and refining stages) for a number of other substances. But even there, the number of tracked substances totals well under 100.

Other Benefits Not Quantified: Existence Value of Recycling

Waste disposal reduction (which lowers the need for landfills), and the conservation of limited resources, are two public goods provided by recycling programs. Within the context of present market mechanisms, the economic value of these public goods is unlikely to be reflected in market prices--and therefore likely to escape benefit-cost assessments of recycling. Consumers who choose to participate in recycling programs may not see the public good benefits from their own recycling (since their contribution is relatively small compared to the total); however, they do obtain benefits from everybody else's recycling efforts. This is a type of non-use (sometimes called existence) value of recycling programs. Likewise, consumers who choose not to participate in recycling programs also enjoy the benefits of these public goods.

Analysis Results for Seattle's Solid Waste Plan Waste Reduction and Recycling Recommendations

The following two charts illustrate the magnitude of the additional benefits from recycling MSW and C&D materials, for both past years and planned future recycling through 2030. These benefits are calculated by first starting with the tons recycled/composted from the RPA model for the recommended scenarios. Then using the techniques described above and embodied in MEBCalcTM, the benefits are quantified across the life cycle impact categories using an indexed pollutant for each category. Then a monetary value is placed on each of the indexed pollutants to allow these different life cycle impact categories to be expressed in dollar terms so they can be added together.

For MSW, Chart 1 shows estimated environmental benefits for actual recycling from 1997 through 2010. For C&D, Chart 2 shows estimated environmental benefits for actual C&D material recycling for 2007 through 2010. Reductions in climate change and human health impacts account for most of the environmental value of MSW recycling. This is a result of diverting materials from disposal to recycling. Most of the environmental value for C&D recycling comes from reductions in human health and ecosystem toxicity impacts, as a result of diverting C&D materials from disposal. For the years 2007 through 2010, and a few years following 2010, reductions in climate change impacts also provide a substantial portion of the environmental benefits for C&D recycling.

Chart 1 Environmental Value (\$millions) of Recycled MSW Tons. 1997-2030

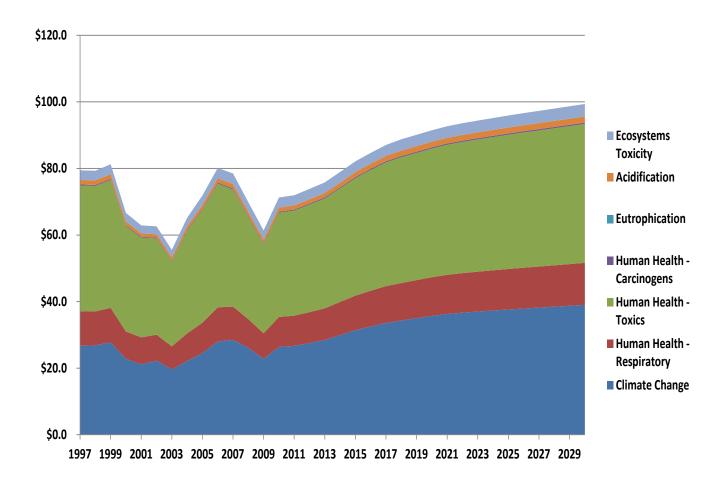


Table I Environmental Value (\$millions) of Recycled MSW Tons*

Year	Climate Change	Human Health - Respiratory	Human Health - Toxics	Human Health - Carcinogens	Eutrophication	Acidification	Ecosystems Toxicity	Total Environmental Value
2010	26.4	9.0	31.3	0.3	0.0	1.2	3.0	71.5
2020	35.7	11.6	38.7	0.4	0.0	1.7	3.4	92.9
2030	39.0	12.6	41.7	0.4	0.0	1.9	3.8	101.0

^{*}Monetized Value of Specific Environmental Impacts Reductions

Chart 2 Environmental Value (\$millions) of Recycled C&D Tons, 2007-2030

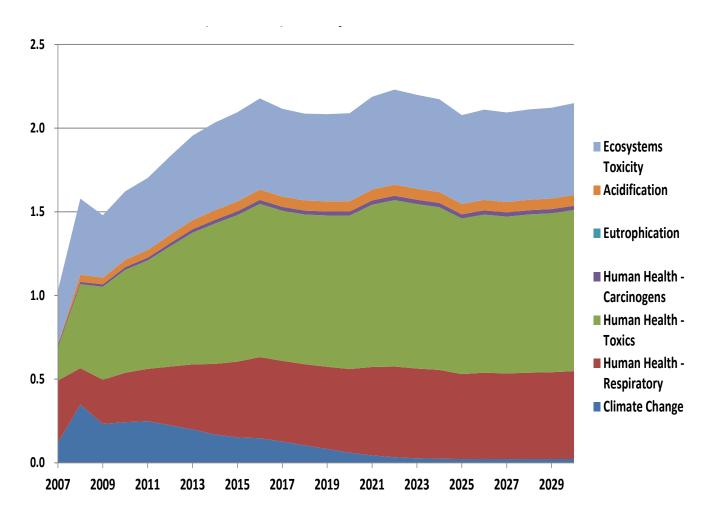


Table 2 Environmental Value (\$millions) of Recycled C&D tons*

			、	•				
Year	Climate Change	Human Health - Respiratory	Human Health - Toxics	Human Health - Carcinogens	Eutrophication	Acidification	Ecosystems Toxicity	Total Environmental Value
2010	0.243	0.295	0.615	0.016	0.000	0.043	0.410	1.623
2020	0.060	0.500	0.918	0.024	0.000	0.062	0.526	2.090
2030	0.023	0.525	0.963	0.025	0.000	0.064	0.550	2.150

^{*}Monetized Value of Specific Environmental Impacts Reductions

Summary - Program Tons Per Year Scenario 1, Status Quo

			101131 CI	Order ->	2	3	4	5
	Recycle	Total	Total	Total	Curb/Apt	BY YW In	BY FW In	Grasscycl
Year	Rate	Material	Diposed	Recycled	Rec	City	City	е
		-	-	-	2	3	4	5
1997	44.4%	816,174	453,787	362,386	67,509	6,779	16,470	5,119
1998	44.2%	820,212	457,598	362,613	70,279	6,680	15,887	6,038
1999 2000	44.0% 40.0%	852,299 793,825	477,433 476,131	374,866 317,693	73,478 72,864	4,002 4,002	15,590 873	10,660 10,660
2001	39.3%	782,894	475,270	307,623	72,382	4,002	873	10,660
2002	39.7%	768,422	462,996	305,426	72,543	4,002	873	10,660
2003	38.2%	741,656	458,010	283,646	73,780	4,002	873	10,660
2004	41.2%	780,061	458,405	321,656	76,860	4,800	2,400	9,900
2005	44.2%	789,740	440,876	348,864	81,139	4,600	2,100	9,600
2006	47.6%	836,373	438,380	397,993	84,531	4,600	2,100	9,600
2007	48.3% 50.0%	848,125 789,607	438,845 394,607	409,280 395,000	86,621 81,888	4,600 4,600	2,100 2,100	9,600 9,600
2009	51.1%	719,423	351,688	367,735	76,584	2,600	1,100	7,100
2010	50.9%	780,664	383,438	397,226	78,554	2,655	1,123	7,251
2011	51.2%	783,186	382,112	401,074	78,487	2,640	1,117	7,211
2011	52.1%	789,299	378,194	411,105	78,592			7,211
						2,628	1,112	
2013	52.9%	791,832	372,560	419,271	78,614	2,612	1,105	7,134
2014	53.6%	794,323	368,427	425,896	78,534	2,597	1,099	7,092
2015	54.0%	795,698	366,081	429,617	78,380	2,582	1,093	7,053
2016	54.2%	798,068	365,894	432,174	78,427	2,575	1,090	7,034
2017	54.3%	802,464	367,094	435,370	79,225	2,596	1,098	7,091
2018	54.2%	804,837	368,556	436,282	79,100	2,583	1,093	7,055
2019	54.1%	807,071	370,133	436,938	78,880	2,568	1,087	7,015
2020	54.1%	810,694	372,307	438,387	78,753	2,556	1,082	6,983
2021	54.0%	816,837	375,451	441,386	79,374	2,568	1,087	7,017
2022	54.0%	822,953	378,636	444,317	79,999	2,581	1,092	7,051
2023	53.9%	829,180	381,876	447,305	80,671	2,595	1,098	7,089
2024	53.9%	835,530	385,174	450,355	81,363	2,609	1,104	7,127
2025	53.9%	842,027	388,547	453,480	82,074	2,624	1,110	7,168
2026	53.8%	848,581	391,952	456,628	82,782	2,638	1,116	7,207
2027	53.8%	855,143	395,363	459,780	83,494	2,652	1,122	7,246
2028	53.7%	861,830	398,800	463,030	84,236	2,667	1,129	7,287
2029	53.7%	868,628	402,275	466,353	85,004	2,683	1,135	7,330
2030	53.6%	875,647	405,864	469,783	85,825	2,700	1,143	7,377

4/1/11 5:00 PM

	6	7	9	10	11	12	13	14	15
							Foodwar		
							е		MF
	BY YW	BY FW	Curb/Apt	Clean	Drop	Com Priv	Rec/Com		Univer
Year	Not City	Not City	Org	Green	Sites	Rec	р	ABC Ban	Org Serv
1997	7,400	7 2,520	43,130	21 14,137	23 5,000	30 194,323	35	- 22	13
1998	7,700	2,823	40,546	13,034	5,376	194,251	-	-	
1999	8,000	3,127	39,737	13,692	6,612	199,968	-	-	
2000	8,000	3,127	34,037	14,032	7,109	162,989	-	-	-
2001	8,000	3,127	36,990	15,034	7,103	149,453	-	-	
2002	8,000	3,127	34,503	14,353	8,340	149,025	-	-	
2003	8,000 5,000	3,127 1,800	33,923 38,485	14,156 14,907	8,170 8,163	126,956 159,341	-	-	
2005	4,800	1,600	42,603	13,925	9,232	179,265	_	_	
2006	4,800	1,600	51,482	14,277	9,745	215,258	-	-	-
2007	4,800	1,600	54,573	14,247	11,246	219,894	-	-	-
2008	4,800	1,600	56,364	11,893	8,662	213,493	-	-	
2009	3,500	1,700	74,230	10,149	6,179	184,593	-	-	
2010	3,575	1,736	76,624	11,351	6,907	205,610	1,840	-	
2011	3,554	1,726	77,214	11,571	7,033	206,360	4,161	-	
2012	3,538	1,718	78,462	11,925	7,229	208,209	7,793	1,075	1,647
2013	3,517	1,708	79,800	12,190	7,341	208,764	11,418	2,044	3,024
2014	3,496	1,698	80,962	12,414	7,373	209,507	13,795	3,043	4,285
2015	3,477	1,688	82,021	12,583	7,312	209,874	14,941	3,716	4,896
2016	3,468	1,684	83,062	12,742	7,241	210,326	15,427	4,070	5,027
2017	3,496	1,697	84,518	12,824	7,182	210,741	15,628	4,223	5,051
2018	3,478	1,688	84,526	12,992	7,223	211,433	15,737	4,327	5,046
2019	3,459	1,679	84,252	13,145	7,287	212,301	15,818	4,397	5,052
2020	3,443	1,671	83,989	13,295	7,362	213,756	15,967	4,454	5,077
2021	3,460	1,679	84,488	13,443	7,441	215,111	16,055	4,507	5,156
2022	3,476	1,687	84,974	13,602	7,528	216,391	16,137	4,561	5,238
2023	3,495	1,696	85,501	13,761	7,615	217,631	16,214	4,614	5,324
2024	3,514	1,706	86,043	13,921	7,704	218,891	16,293	4,668	5,414
2025	3,534	1,715	86,601	14,081	7,792	220,181	16,373	4,722	5,505
2026	3,553	1,725	87,150	14,241	7,881	221,505	16,456	4,776	5,598
2027	3,572	1,734	87,699	14,400	7,969	222,829	16,541	4,829	5,692
2028	3,593	1,744	88,276	14,554	8,054	224,191	16,631	4,880	5,789
2029	3,614	1,754	88,874	14,705	8,137	225,576	16,722	4,931	5,888
2030	3,637	1,765	89,524	14,861	8,224	226,940	16,811	4,984	5,993

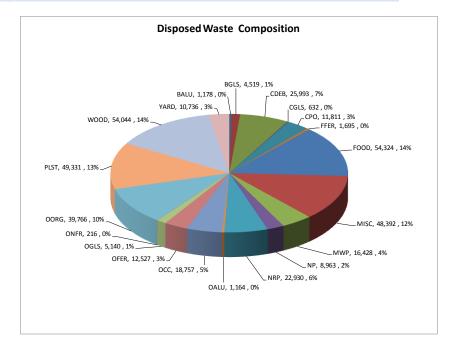
Summary - Program Sector Materials Diversion by Program Status Quo Year 2025 All MSW Sectors

		Total	Total	Total	Percent	Curb/Apt	BY YW In		Grasscycl	
Material MSW		Disposed	Recycled	Generated	Recycled	Rec	City	In City		Not City
	•	1			. , - ,	2	3	4	5	6
Aluminum Beverage	BALU	1,178	1,854	3,033	61.1%	965	-	-	-	-
Beverage Glass	BGLS	4,519	18,537	23,056	80.4%	15,229	-	-	-	-
Construction Debris	CDEB	25,993	4,722	30,715	15.4%	-	-	-	-	-
Container Glass	CGLS	632	2,981	3,613	82.5%	2,981	-	-	-	-
Computer Office Paper	CPO	11,811	16,023	27,834	57.6%	-	-	-	-	-
Food Cans	FFER	1,695	1,857	3,552	52.3%	1,082	-	-	-	-
Food	FOOD	54,324	81,510	135,834	60.0%	-	-	1,110	-	-
Miscellaneous	MISC	48,392	30,397	78,789	38.6%	-	-	-	-	-
Mixed Scrap Paper	MWP	16,428	53,718	70,147	76.6%	28,044	-	-	-	-
Newspaper	NP	8,963	40,095	49,058	81.7%	15,792	-	-	-	-
Other Paper	NRP	22,930	12,860	35,790	35.9%	-	-	-	-	-
Other Aluminum	OALU	1,164	-	1,164	0.0%	-	-	-	-	-
Corrugated Kraft	OCC	18,757	66,462	85,219	78.0%	13,453	-	-	-	-
Other Ferrous	OFER	12,527	12,620	25,147	50.2%	630	-	-	-	-
Other Glass	OGLS	5,140	971	6,110	15.9%	-	-	-	-	-
Other NonFerrous	ONFR	216	-	216	0.0%	-	-	-	-	-
Other Organics	OORG	39,766	-	39,766	0.0%	-	-	-	-	-
Plastics	PLST	49,331	9,087	58,419	15.6%	3,899	-	-	-	-
Wood	WOOD	54,044	245	54,289	0.5%	-	-	-	-	-
Yard	YARD	10,736	99,540	110,276	90.3%	-	2,624	-	7,168	3,534
Total	Grand To	388,547	453,480	842,027	53.9%	82,074	2,624	1,110	7,168	3,534

1000	Grana i	. 330,347	433,400	542,027	33.370
		(in tons per y			
		Total	Total	Total	Percent
		Disposed	Recycled	Generated	Recycled
	Year	1	2	. 3	(2/3)
	1997	453,787	362,386	816,174	44.4%
	1998	457,598	362,613	820,212	44.2%
	1999	477,433	374,866	852,299	44.0%
	2000	476,131	317,693	793,825	40.0%
	2001	475,270	307,623	782,894	39.3%
	2002	462,996	305,426	768,422	39.7%
	2003	458,010	283,646	741,656	38.2%
	2004	458,405	321,656	780,061	41.2%
	2005	440,876	348,864	789,740	44.2%
	2006	438,380	397,993	836,373	47.6%
	2007	438,845	409,280	848,125	48.3%
	2008	394,607	395,000	789,607	50.0%
	2009	351,688	367,735	719,423	51.1%
	2010	383,438	397,226	780,664	50.9%
	2011	382,112	401,074	783,186	51.2%
	2012	378,194	411,105	789,299	52.1%
	2013	372,560	419,271	791,832	52.9%
	2014	368,427	425,896	794,323	53.6%
	2015	366,081	429,617	795,698	54.0%
	2016	365,894	432,174	798,068	54.2%
	2017	367,094	435,370	802,464	54.3%
	2018	368,556	436,282	804,837	54.2%
	2019	370,133	436,938	807,071	54.1%
	2020	372,307	438,387	810,694	54.1%
	2021	375,451	441,386	816,837	54.0%
	2022	378,636	444,317	822,953	54.0%
	2023	381,876	447,305	829,180	53.9%
	2024	385,174	450,355	835,530	53.9%
	2025	388,547	453,480	842,027	53.9%
	2026	391,952	456,628	848,581	53.8%
	2027	395,363	459,780	855,143	53.8%
	2028	398,800	463,030	861,830	53.7%
	2029	402,275	466,353	868,628	53.7%
	2030	405,864	469,783	875,647	53.6%

Material MSW		BY FW Not City	Curb/Apt Org	MF Univer Org Serv	Clean Green	ABC Ban	Drop Sites	Com Priv Rec	Foodware Rec/Comp
		7	8	13	21	22	23	30	35
Aluminum Beverage	BALU	-	-	-	-	-	4	885	-
Beverage Glass	BGLS	-	-	-	-	-	537	2,771	-
Construction Debris	CDEB	-	-	-	-	4,722	-	-	-
Container Glass	CGLS	-	-	-	-	-	-	-	-
Computer Office Paper	CPO	-	-	-	-	-	-	16,023	-
Food Cans	FFER	-	-	-	-	-	-	775	-
Food	FOOD	1,715	31,632	4,499	-	-	-	35,055	7,498
Miscellaneous	MISC	-	-	-	-	-	63	30,334	-
Mixed Scrap Paper	MWP	-	-	-	-	-	477	25,197	-
Newspaper	NP	-	-	-	-	-	385	23,919	-
Other Paper	NRP	-	3,735	1,006	-	-	-	-	8,119
Other Aluminum	OALU	-	-	-	-	-	-	-	-
Corrugated Kraft	OCC	-	-	-	-	-	1,006	52,004	-
Other Ferrous	OFER	-	-	-	-	-	5,048	6,942	-
Other Glass	OGLS	-	-	-	-	-	-	971	-
Other NonFerrous	ONFR	-	-	-	-	-	-	-	-
Other Organics	OORG	-	-	-	-	-	-	-	-
Plastics	PLST	-	-	-	-	-	27	4,407	755
Wood	WOOD	-	-	-	-	-	245	-	-
Yard	YARD	-	51,235	-	14,081	-	-	20,899	-
Total	Grand To	1,715	86,601	5,505	14,081	4,722	7,792	220,181	16,373





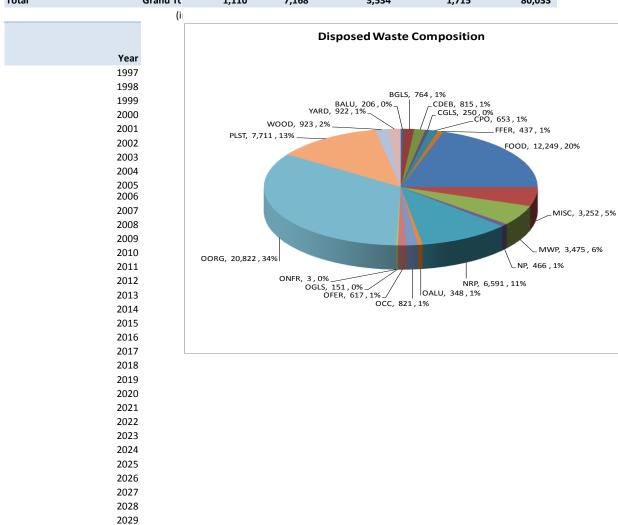
Summary - Program Sector Materials Diversion by Program Status Quo Year 2025 Single Family Sector

		tatas Quo	1 Cui 202	-5 Single i	arring see		
		Total	Total	Total	Percent		
Material MSW		Disposed	Recycled	Generated	Recycled	Curb/Apt Rec	BY YW In City
	Row Lab	1	2	3	(2/3)	2	3
Aluminum Beverage	BALU	206	742	948	78.2%	742	-
Beverage Glass	BGLS	764	10,575	11,339	93.3%	10,575	-
Construction Debris	CDEB	815	-	815	0.0%	-	-
Container Glass	CGLS	250	2,070	2,319	89.2%	2,070	-
Computer Office Paper	CPO	653	-	653	0.0%	-	-
Food Cans	FFER	437	835	1,272	65.7%	835	-
Food	FOOD	12,249	30,291	42,540	71.2%	-	-
Miscellaneous	MISC	3,252	-	3,252	0.0%	-	-
Mixed Scrap Paper	MWP	3,475	21,030	24,505	85.8%	21,030	-
Newspaper	NP	466	11,923	12,388	96.2%	11,923	-
Other Paper	NRP	6,591	2,825	9,416	30.0%	-	-
Other Aluminum	OALU	348	-	348	0.0%	-	-
Corrugated Kraft	occ	821	8,790	9,611	91.5%	8,790	-
Other Ferrous	OFER	617	390	1,006	38.7%	390	-
Other Glass	OGLS	151	-	151	0.0%	-	-
Other NonFerrous	ONFR	3	-	3	0.0%	-	-
Other Organics	OORG	20,822	-	20,822	0.0%	-	-
Plastics	PLST	7,711	2,970	10,681	27.8%	2,970	-
Wood	WOOD	923	-	923	0.0%	-	-
Yard	YARD	922	63,067	63,989	98.6%		2,624
Total	Grand To	61,474	155,508	216,982	71.7%	59,325	2,624

Total	Grand Tc	61,474	155,508	216,982	71.7%	59,325	2,624
	(in to	ons per year)				
		Total	Total	Total	Percent		
		Disposed	Recycled	Generated	Recycled		
Y	ear	1	2	3	(2/3)		
19	997	88,783	137,555	226,337	60.8%		
19	998	87,560	137,686	225,247	61.1%		
19	999	88,631	141,956	230,586	61.6%		
20	000	87,499	120,969	208,468	58.0%		
20	001	91,072	120,910	211,982	57.0%		
	002	87,834	118,640	206,474	57.5%		
	003	87,426	118,322	205,748	57.5%		
	004	86,029	123,103	209,132	58.9%		
	005 006	80,479 78,078	128,197 138,810	208,676 216,889	61.4% 64.0%		
20	007	77,494	142,634	220,127	64.8%		
20	800	73,961	139,928	213,889	65.4%		
20	009	67,229	147,786	215,015	68.7%		
20	010	67,893	151,706	219,599	69.1%		
20	011	66,550	151,809	218,360	69.5%		
20	012	64,757	152,556	217,314	70.2%		
20	013	62,911	153,124	216,035	70.9%		
20	014	61,597	153,167	214,764	71.3%		
20	015	60,803	152,762	213,565	71.5%		
20	016	60,449	152,520	212,970	71.6%		
20	017	60,858	153,802	214,661	71.6%		
20	018	60,529	153,063	213,592	71.7%		
20	019	60,172	152,194	212,366	71.7%		
	020	59,893	151,501	211,394	71.7%		
	021	60,184	152,241	212,424	71.7%		
	022	60,474	152,977	213,451	71.7%		
	023	60,796	153,794	214,590	71.7%		
	024	61,130	154,637	215,766	71.7%		
	025	61,474	155,508	216,982	71.7%		
	026	61,811	156,360	218,171	71.7%		
	027	62,147	157,210	219,357	71.7%		
	028	62,501	158,105	220,606	71.7%		
	029	62,869	159,037	221,906	71.7%		
20	030	63,272	160,056	223,328	71.7%		

Appendix D: Economic Analysis of New Wste Prevention and Recycling Programs

Material MSW		BY FW In City	Grasscycle	BY YW Not City	BY FW Not City	Curb/Apt Org
Waterial Wisw	Row Lab	4	5	6	7	8
Aluminum Beverage	BALU	-	-	-	-	-
Beverage Glass	BGLS	-	-	-	-	-
Construction Debris	CDEB	-	_	-	-	-
Container Glass	CGLS	-	_	-	-	-
Computer Office Paper	CPO	-	_	-	-	-
Food Cans	FFER	-	-	-	-	-
Food	FOOD	1,110	-	-	1,715	27,466
Miscellaneous	MISC	-	-	-	-	-
Mixed Scrap Paper	MWP	-	-	-	-	-
Newspaper	NP	-	-	-	-	-
Other Paper	NRP	-	-	-	-	2,825
Other Aluminum	OALU	-	-	-	-	-
Corrugated Kraft	OCC	-	-	-	-	-
Other Ferrous	OFER	-	-	-	-	-
Other Glass	OGLS	-	-	-	-	-
Other NonFerrous	ONFR	-	-	-	-	-
Other Organics	OORG	-	-	-	-	-
Plastics	PLST	-	-	-	-	-
Wood	WOOD	-	-	-	-	-
Yard	YARD	-	7,168	3,534	-	49,743
Total	Grand To	1,110	7,168	3,534	1,715	80,033



2030

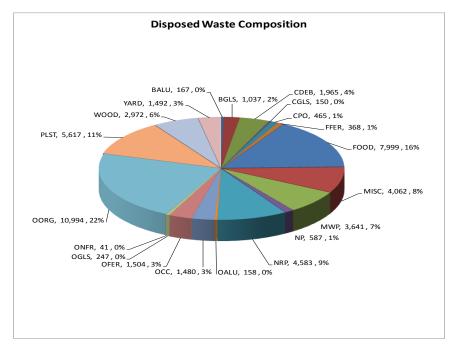
Summary - Program Sector Materials Diversion by Program Status Quo Year 2025 Multi Family Sector

	To	otal	Total	Total	Percent		
Material MSW	D	isposed	Recycled	Generated	Recycled	Curb/Apt Red	Curb/Apt Org
	Row Lat	1	. 2	3	(2/3)	2	2 8
Aluminum Beverage	BALU	167	224	391	57.2%	224	-
Beverage Glass	BGLS	1,037	4,655	5,692	81.8%	4,655	-
Construction Debris	CDEB	1,965	-	1,965	0.0%	-	-
Container Glass	CGLS	150	911	1,061	85.8%	911	-
Computer Office Paper	CPO	465	-	465	0.0%	-	-
Food Cans	FFER	368	246	615	40.1%	246	-
Food	FOOD	7,999	8,665	16,664	52.0%	-	4,166
Miscellaneous	MISC	4,062	-	4,062	0.0%	-	-
Mixed Scrap Paper	MWP	3,641	7,014	10,655	65.8%	7,014	-
Newspaper	NP	587	3,869	4,456	86.8%	3,869	-
Other Paper	NRP	4,583	1,916	6,499	29.5%	-	910
Other Aluminum	OALU	158	-	158	0.0%	-	-
Corrugated Kraft	OCC	1,480	4,662	6,143	75.9%	4,662	-
Other Ferrous	OFER	1,504	240	1,744	13.8%	240	-
Other Glass	OGLS	247	-	247	0.0%	-	-
Other NonFerrous	ONFR	41	-	41	0.0%	-	-
Other Organics	OORG	10,994	-	10,994	0.0%	-	-
Plastics	PLST	5,617	928	6,545	14.2%	928	-
Wood	WOOD	2,972	-	2,972	0.0%	-	-
Yard	YARD	1,492	1,492	2,985	50.0%		1,492
Total	Grand T	49,530	34,823	84,353	41.3%	22,750	6,568

	Total Disposed	Total Recycled	Total Generated	Percent Recycled
Year	Disposed 1	•		•
1997	59,189	11,371	70,560	16.1%
1997	58,374	12,266	70,560	17.4%
1999	59,087	12,639	70,040	17.4%
2000	58,333	12,595	70,927	17.8%
2000	53,487	15,124	68,611	22.0%
2002	55,076	15,068	70,144	21.5%
2003	56,106	16,043	70,144	22.2%
2004	56,498	16,142	72,640	22.2%
2005	54,080	18,245	72,325	25.2%
2006	55,643	19,903	75,545	26.3%
2007	55,759	21,261	77,020	27.6%
2008	53,199	21,024	74,223	28.3%
2009	51,497	19,028	70,524	27.0%
2010	52,955	19,813	72,767	27.2%
2011	52,950	20,140	73,090	27.6%
2012	51,153	22,317	73,469	30.4%
2013	49,370	24,391	73,761	33.1%
2014	47,450	26,596	74,046	35.9%
2015	45,919	28,429	74,347	38.2%
2016	45,138	29,846	74,985	39.8%
2017	45,205	30,969	76,174	40.7%
2018	45,267	31,506	76,773	41.0%
2019	45,397	31,796	77,193	41.2%
2020	45,653	32,052	77,705	41.2%
2021	46,375	32,588	78,963	41.3%
2022	47,118	33,121	80,238	41.3%
2023	47,900	33,675	81,575	41.3%
2024	48,704	34,242	82,946	41.3%
2025	49,530	34,823	84,353	41.3%
2026	50,363	35,409	85,771	41.3%
2027	51,207	36,002	87,209	41.3%
2028	52,079	36,615	88,695	41.3%
2029	52,977	37,247	90,223	41.3%
2030	53,918	37,908	91,826	41.3%

Material MSW		MF Univer Org Serv
	Row Lat	13
Aluminum Beverage	BALU	-
Beverage Glass	BGLS	-
Construction Debris	CDEB	-
Container Glass	CGLS	-
Computer Office Paper	CPO	-
Food Cans	FFER	-
Food	FOOD	4,499
Miscellaneous	MISC	-
Mixed Scrap Paper	MWP	-
Newspaper	NP	-
Other Paper	NRP	1,006
Other Aluminum	OALU	-
Corrugated Kraft	OCC	-
Other Ferrous	OFER	-
Other Glass	OGLS	-
Other NonFerrous	ONFR	-
Other Organics	OORG	-
Plastics	PLST	-
Wood	WOOD	-
Yard	YARD	-
Total	Grand T	5,505





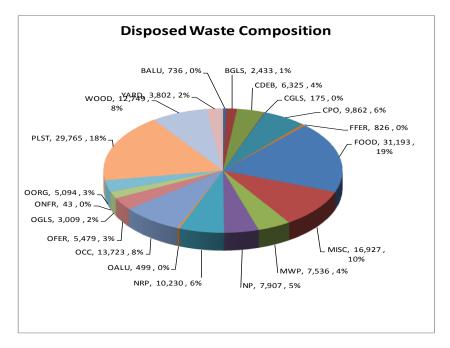
Summary - Program Sector Materials Diversion by Program Status Quo Year 2025 Commercial Sector

		Total	Total	Total	Percent		Foodware
Material MSW		Disposed	Recycled	Generated	Recycled	Com Priv Rec	Rec/Comp
	Row Lab	1	2	3	(2/3)	30	35
Aluminum Beverage	BALU	736	885	1,620	54.6%	885	-
Beverage Glass	BGLS	2,433	2,771	5,204	53.2%	2,771	-
Construction Debris	CDEB	6,325	-	6,325	0.0%	-	-
Container Glass	CGLS	175	-	175	0.0%	-	-
Computer Office Paper	CPO	9,862	16,023	25,886	61.9%	16,023	-
Food Cans	FFER	826	775	1,601	48.4%	775	-
Food	FOOD	31,193	42,553	73,746	57.7%	35,055	7,498
Miscellaneous	MISC	16,927	30,334	47,260	64.2%	30,334	-
Mixed Scrap Paper	MWP	7,536	25,197	32,733	77.0%	25,197	-
Newspaper	NP	7,907	23,919	31,825	75.2%	23,919	-
Other Paper	NRP	10,230	8,119	18,349	44.2%	-	8,119
Other Aluminum	OALU	499	-	499	0.0%	-	-
Corrugated Kraft	occ	13,723	52,004	65,727	79.1%	52,004	-
Other Ferrous	OFER	5,479	6,942	12,421	55.9%	6,942	-
Other Glass	OGLS	3,009	971	3,980	24.4%	971	-
Other NonFerrous	ONFR	43	-	43	0.0%	-	-
Other Organics	OORG	5,094	-	5,094	0.0%	-	-
Plastics	PLST	29,765	5,162	34,927	14.8%	4,407	755
Wood	WOOD	12,749	-	12,749	0.0%	-	-
Yard	YARD	3,802	20,899	24,701	84.6%	20,899	-
Total	Grand To	168,312	236,554	404,866	58.4%	220,181	16,373

1998 213,646 194,251 407,896 4 1999 225,348 199,968 425,316 4 2000 228,417 162,989 391,405 4 2001 228,405 149,453 377,858 3 2002 217,195 149,025 366,220 4 2003 213,247 126,956 340,202 3 2004 216,112 159,341 375,453 4 2005 205,819 179,265 385,083 4 2006 201,231 215,258 416,489 5 2007 198,493 219,894 418,387 5 2008 176,774 213,493 390,267 5	8.2% 7.6% 7.6% 1.6% 9.6% 7.3% 2.4% 6.6% 61.7%
Year 1 2 3 (2/ 1997 208,670 194,323 402,994 4 1998 213,646 194,251 407,896 4 1999 225,348 199,968 425,316 4 2000 228,417 162,989 391,405 4 2001 228,405 149,453 377,858 3 2002 217,195 149,025 366,220 4 2003 213,247 126,956 340,202 3 2004 216,112 159,341 375,453 4 2005 205,819 179,265 385,083 4 2006 201,231 215,258 416,489 5 2007 198,493 219,894 418,387 5 2008 176,774 213,493 390,267 5	43) 8.2% 7.6% 7.0% 1.6% 9.6% 7.3% 2.4% 6.6% 61.7% 62.6%
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2001 228,405 149,453 377,858 3 2002 217,195 149,025 366,220 4 2003 213,247 126,956 340,202 3 2004 216,112 159,341 375,453 4 2005 205,819 179,265 385,083 4 2006 201,231 215,258 416,489 5 2007 198,493 219,894 418,387 5 2008 176,774 213,493 390,267 5	9.6% 0.7% 7.3% 2.4% 6.6% 61.7% 62.6%
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2007 198,493 219,894 418,387 5 2008 176,774 213,493 390,267 5	2.6%
2008 176,774 213,493 390,267 5	
2000 151 200 104 502 225 002 5	4.7%
	4.9%
	4.8%
	5.4%
	6.3%
	7.3%
	7.9%
2015 161,600 224,815 386,415 5	8.2%
	8.3%
2017 161,556 226,369 387,925 5	8.4%
2018 161,985 227,170 389,155 5	8.4%
2019 162,600 228,119 390,718 5	8.4%
2020 163,633 229,723 393,356 5	8.4%
2021 164,609 231,166 395,775 5	8.4%
	8.4%
2023 166,430 233,845 400,275 5	8.4%
2024 167,354 235,184 402,538 5	8.4%
	8.4%
	8.4%
2027 170,303 239,371 409,674 5	8.4%
2028 171,321 240,822 412,143 5	8.4%
2029 172,361 242,297 414,658 5	8.4%
2030 173,392 243,750 417,142 5	8.4%

Row Lab
BALU
BGLS
CDEB
CGLS
CPO
FFER
FOOD
MISC
MWP
NP
NRP
OALU
OCC
OFER
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PLST
WOOD
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Summary - Program Sector Materials Diversion by Program Status Quo Year 2025 Self Haul Sector

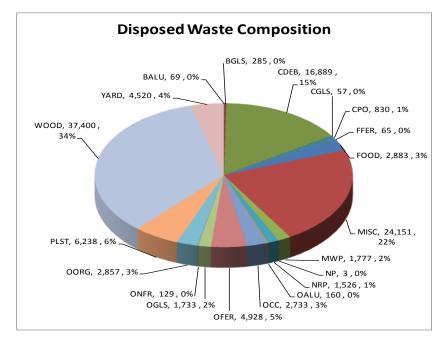
	To	tal	Total	Total	Percent		Drop	ABC
Material MSW	Dis	posed	Recycled	Generated	Recycled	Clean Green	Sites	Ban
	Row Lab	1	2	3	(2/3)	21	23	22
Aluminum Beverage	BALU	69	4	73	5.9%	-	4	-
Beverage Glass	BGLS	285	537	822	65.3%	-	537	-
Construction Debris	CDEB	16,889	4,722	21,611	21.8%	-	-	4,722
Container Glass	CGLS	57	-	57	0.0%	-	-	-
Computer Office Paper	CPO	830	-	830	0.0%	-	-	-
Food Cans	FFER	65	-	65	0.0%	-	-	-
Food	FOOD	2,883	-	2,883	0.0%	-	-	-
Miscellaneous	MISC	24,151	63	24,215	0.3%	-	63	-
Mixed Scrap Paper	MWP	1,777	477	2,253	21.2%	-	477	-
Newspaper	NP	3	385	388	99.3%	-	385	-
Other Paper	NRP	1,526	-	1,526	0.0%	-	-	-
Other Aluminum	OALU	160	-	160	0.0%	-	-	-
Corrugated Kraft	OCC	2,733	1,006	3,739	26.9%	-	1,006	-
Other Ferrous	OFER	4,928	5,048	9,976	50.6%	-	5,048	-
Other Glass	OGLS	1,733	-	1,733	0.0%	-	-	-
Other NonFerrous	ONFR	129	-	129	0.0%	-	-	-
Other Organics	OORG	2,857	-	2,857	0.0%	-	-	-
Plastics	PLST	6,238	27	6,265	0.4%	-	27	-
Wood	WOOD	37,400	245	37,644	0.6%	-	245	-
Yard	YARD	4,520	14,081	18,601	75.7%	14,081	-	-
Total	Grand Tc	109,231	26,595	135,826	19.6%	14,081	7,792	4,722

(in tons per year	1	(in	tons	per	year
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	Takal	T-4-1	T-4-1	D
	Total	Total	Total	Percent
	Disposed	Recycled	Generated	Recycled
Year	1			(2/3)
1997	97,146	19,137	116,283	16.5%
1998	98,019	18,410	116,429	15.8%
1999	104,367	20,304	124,671	16.3%
2000	101,883	21,141	123,024	17.2%
2001	102,305	22,137	124,442	17.8%
2002	102,891	22,693	125,584	18.1%
2003	101,232	22,325	123,557	18.1%
2004	99,766	23,070	122,836	18.8%
2005 2006	100,499 103,428	23,157 24,022	123,656 127,450	18.7% 18.8%
2007	107,098	25,492	132,591	19.2%
2008	90,673	20,556	111,229	18.5%
2009	81,565	16,328	97,893	16.7%
2010	91,226	18,257	109,484	16.7%
2011	93,001	18,604	111,605	16.7%
2012	94,797	20,230	115,027	17.6%
2013	96,002	21,574	117,576	18.3%
2014	96,914	22,831	119,745	19.1%
2015	97,759	23,611	121,371	19.5%
2016	98,857	24,054	122,911	19.6%
2017	99,475	24,229	123,704	19.6%
2018	100,774	24,542	125,317	19.6%
2019	101,965	24,829	126,794	19.6%
2020	103,128	25,110	128,239	19.6%
2021	104,283	25,391	129,674	19.6%
2022	105,514	25,690	131,204	19.6%
2023	106,749	25,991	132,740	19.6%
2024	107,986	26,292	134,279	19.6%
2025	109,231	26,595	135,826	19.6%
2026	110,473	26,898	137,370	19.6%
2027	111,706	27,198	138,904	19.6%
2028	112,899	27,488	140,387	19.6%
2029	114,068	27,773	141,841	19.6%
2030	115,282	28,069	143,351	19.6%

Material MSW	
	Row Lab
Aluminum Beverage	BALU
Beverage Glass	BGLS
Construction Debris	CDEB
Container Glass	CGLS
Computer Office Paper	CPO
Food Cans	FFER
Food	FOOD
Miscellaneous	MISC
Mixed Scrap Paper	MWP
Newspaper	NP
Other Paper	NRP
Other Aluminum	OALU
Corrugated Kraft	OCC
Other Ferrous	OFER
Other Glass	OGLS
Other NonFerrous	ONFR
Other Organics	OORG
Plastics	PLST
Wood	WOOD
Yard	YARD
Total	Grand To





Summary of Recycling Program Benefits and Costs Status Quo Newest Programs

All Programs in Scenario

Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$17,279,271	\$116,013	\$262,341	\$773,665	\$1,241,656	\$1,616,495
Program Cost	\$15,393,862	\$431,561	\$807,500	\$1,100,735	\$1,090,861	\$1,366,545
Net Benefits	\$1,885,409	(\$315,548)	(\$545,159)	(\$327,070)	\$150,795	\$249,950
Tons avoided through recycling	470,280	1,840	4,161	10,516	16,485	21,123
4/1/11 5:00 PM	(All costs in 2010 dolla	rs)				

13	MF	Univer	Org .	Serv
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Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$6,239,071	\$ -	\$ -	\$ 228,037	\$ 418,673	\$ 593,199
Program Cost	\$3,389,494	\$ -	\$ 200,000	\$ 212,001	\$ 213,632	\$ 299,351
Net Benefits	\$2,849,577	\$ -	\$ (200,000)	\$ 16,036	\$ 205,041	\$ 293,848
Tons avoided through recycling	94,700	-	-	1,647	3,024	4,285

PV per ton \$30

22 ABC Ban

Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$1,871,710	\$ -	\$ -	\$ 54,257	\$ 103,107	\$ 153,534
Program Cost	\$814,148	\$ -	\$ 10,000	\$ 31,509	\$ 50,875	\$ 70,866
Net Benefits	\$1,057,561	\$ -	\$ (10,000)	\$ 22,748	\$ 52,232	\$ 82,668
Tons avoided through recycling	78,822	-	-	1,075	2,044	3,043
PV per ton	\$13					

35 Foodware Rec/Com

Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$9,168,490	\$ 116,013	\$ 262,341	\$ 491,371	\$ 719,876	\$ 869,762
Program Cost	\$11,190,220	\$ 431,561	\$ 597,500	\$ 857,225	\$ 826,354	\$ 996,328
Net Benefits	(\$2,021,729)	\$ (315,548)	\$ (335,159)	\$ (365,854)	\$ (106,478)	\$ (126,566)
Tons avoided through recycling	296,758	1,840	4,161	7,793	11,418	13,795
PV per ton	(\$7)					

All Programs in Scenario

Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$1,807,319	\$1,873,985	\$1,897,780	\$1,909,129	\$1,918,579	\$1,934,296
Program Cost	\$1,503,495	\$1,554,277	\$1,568,364	\$1,577,861	\$1,585,448	\$1,598,937
Net Benefits	\$303,825	\$319,708	\$329,416	\$331,268	\$333,131	\$335,359
Tons avoided through recycling	23,553	24,524	24,903	25,110	25,267	25,498
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13 MF Univer Org Serv

Year		2015	2016	2017	2018	2019	2020
Program Benefits	\$	677,821	\$ 695,942	\$ 699,378	\$ 698,591	\$ 699,429	\$ 702,868
Program Cost	\$	340,913	\$ 349,813	\$ 351,501	\$ 351,114	\$ 351,526	\$ 353,215
Net Benefits	\$	336,908	\$ 346,129	\$ 347,877	\$ 347,476	\$ 347,903	\$ 349,653
Tana anaidad thuanah na malina		4.000	F 027	F 0F1	F 04C	F 0F2	F 077
Tons avoided through recycling		4,896	5,027	5,051	5,046	5,052	5,077
PV per tor	1						

22 ABC Ban

Year		2015	2016	2017	2018	2019	2020
Program Benefits	\$	187,493	\$ 205,347	\$ 213,059	\$ 218,318	\$ 221,829	\$ 224,709
Program Cost	\$	84,328	\$ 91,406	\$ 89,463	\$ 91,548	\$ 92,940	\$ 94,082
Net Benefits	\$	103,165	\$ 113,941	\$ 123,595	\$ 126,770	\$ 128,889	\$ 130,627
Tons avoided through recycling		3,716	4,070	4,223	4,327	4,397	4,454
PV per to	n						

35 Foodware Rec/Com

Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$ 942,005	\$ 972,696	\$ 985,344	\$ 992,220	\$ 997,320	\$ 1,006,719
Program Cost	\$ 1,078,253	\$ 1,113,057	\$ 1,127,400	\$ 1,135,198	\$ 1,140,982	\$ 1,151,640
Net Benefits	\$ (136,248)	\$ (140,361)	\$ (142,056)	\$ (142,978)	\$ (143,661)	\$ (144,921)
Tons avoided through recycling	14,941	15,427	15,628	15,737	15,818	15,967

PV per ton

ΛII	Programs	in	Sconario	
AII	Programs	ın	Scenario	ì

•						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$1,953,405	\$1,972,659	\$1,992,267	\$2,012,292	\$2,032,766	\$2,053,537
Program Cost	\$1,661,639	\$1,624,161	\$1,636,672	\$1,649,437	\$1,662,484	\$1,675,805
Net Benefits	\$291,766	\$348,498	\$355,595	\$362,855	\$370,282	\$377,732
Tons avoided through recycling	25,717	25,935	26,153	26,375	26,600	26,830
4/1/11 5·00 PM						

13 MF Univer Org Serv

13 IVII OIIIVEI OIG SEIV							
Year		2021	2022	2023	2024	2025	2026
Program Benefits	\$	713,784	\$ 725,135	\$ 737,150	\$ 749,515	\$ 762,220	\$ 775,030
Program Cost	\$	408,576	\$ 364,152	\$ 370,053	\$ 376,126	\$ 382,366	\$ 388,657
Net Benefits	\$	305,207	\$ 360,983	\$ 367,097	\$ 373,389	\$ 379,854	\$ 386,372
Tons avoided through recycling		5,156	5,238	5,324	5,414	5,505	5,598
PV per tor	1						

22 ABC Ban

EE /IBC Buil							
Year		2021	2022	2023	2024	2025	2026
Program Benefits	\$	227,354	\$ 230,086	\$ 232,798	\$ 235,503	\$ 238,219	\$ 240,928
Program Cost	\$	95,131	\$ 96,213	\$ 97,289	\$ 98,361	\$ 99,438	\$ 100,512
Net Benefits	\$	132,224	\$ 133,872	\$ 135,509	\$ 137,142	\$ 138,782	\$ 140,417
Tons avoided through recycling		4,507	4,561	4,614	4,668	4,722	4,776
PV per to	n						

35 Foodware Rec/Com

Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$ 1,012,267	\$ 1,017,439	\$ 1,022,319	\$ 1,027,274	\$ 1,032,327	\$ 1,037,579
Program Cost	\$ 1,157,932	\$ 1,163,796	\$ 1,169,331	\$ 1,174,950	\$ 1,180,681	\$ 1,186,636
Net Benefits	\$ (145,665)	\$ (146,358)	\$ (147,012)	\$ (147,676)	\$ (148,353)	\$ (149,057)
Tons avoided through recycling	16,055	16,137	16,214	16,293	16,373	16,456

PV per ton

All Programs in Scenario

7 iii 1 Togramo in Goomano				
Year	2027	2028	2029	2030
Program Benefits	\$2,074,575	\$2,096,221	\$2,118,328	\$2,141,066
Program Cost	\$1,689,327	\$1,703,326	\$1,717,633	\$1,732,156
Net Benefits	\$385,248	\$392,895	\$400,694	\$408,910
Tons avoided through recycling	27,062	27,300	27,541	27,787
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13 MF Univer Org Serv

13 IVII OIIIVET OIG SETV					
Year		2027	2028	2029	2030
Program Benefits	\$	788,021	\$ 801,443	\$ 815,257	\$ 829,741
Program Cost	\$	395,038	\$ 401,630	\$ 408,415	\$ 415,529
Net Benefits	\$	392,983	\$ 399,813	\$ 406,842	\$ 414,212
Tons avoided through recycling		5,692	5,789	5,888	5,993
PV per to	า				

22 ABC Ban

Year		2027	2028	2029	2030
Program Benefits	\$	243,618	\$ 246,220	\$ 248,771	\$ 251,418
Program Cost	\$	101,578	\$ 102,610	\$ 103,621	\$ 104,670
Net Benefits	\$	142,040	\$ 143,611	\$ 145,150	\$ 146,748
Tons avoided through recycling		4,829	4,880	4,931	4,984
PV per ton	1				

35 Foodware Rec/Com

33 Toodivare need com				
Year	2027	2028	2029	2030
Program Benefits	\$ 1,042,936	\$ 1,048,558	\$ 1,054,300	\$ 1,059,908
Program Cost	\$ 1,192,711	\$ 1,199,086	\$ 1,205,597	\$ 1,211,957
Net Benefits	\$ (149,775)	\$ (150,528)	\$ (151,298)	\$ (152,049)
	40 - 44	40.004	46	40.044
Tons avoided through recycling	16,541	16,631	16,722	16,811

PV per ton

Summary - Program Tons Per Year Scenario 31, Recommended

				Order ->	15	1	2	3	4	5
	Recycle	Total	Total	Total	Curb/	BY YW	BY FW	Grass-	BY YW	BY FW
Year	Rate	Material	Diposed	Recycled	Apt Rec	In City	In City	cycle	Not City	Not City
400=		-	-	-	2	3	4	5	6	7
1997	44.4%	816,174	453,787	362,386	67,509	6,779	16,470	5,119	7,400	2,520
1998 1999	44.2% 44.0%	820,212 852,299	457,598 477,433	362,613 374,866	70,279 73,478	6,680 4,002	15,887 15,590	6,038 10,660	7,700 8,000	2,823 3,127
2000	40.0%	793,825	476,131	317,693	72,864	4,002	873	10,660	8,000	3,127
2001	39.3%	782,894	475,270	307,623	72,382	4,002	873	10,660	8,000	3,127
2002	39.7%	768,422	462,996	305,426	72,543	4,002	873	10,660	8,000	3,127
2003	38.2%	741,656	458,010	283,646	73,780	4,002	873	10,660	8,000	3,127
2004	41.2%	780,061	458,405	321,656	76,860	4,800	2,400	9,900	5,000	1,800
2005	44.2%	789,740	440,876	348,864	81,139	4,600	2,100	9,600	4,800	1,600
2006	47.6%	836,373	438,380	397,993	84,531	4,600	2,100	9,600	4,800	1,600
2007	48.3%	848,125	438,845	409,280	86,621	4,600	2,100	9,600	4,800	1,600
2008	50.0% 51.1%	789,607 719,423	394,607 351,688	395,000 367,735	81,888 76,584	4,600 2,600	2,100 1,100	9,600 7,100	4,800 3,500	1,600 1,700
2010	50.9%	780,664	383,438	397,226	78,554	2,655	1,123	7,251	3,575	1,736
2011	51.2%	783,186	382,112	401,074	78,487	2,640	1,117	7,211	3,554	1,726
2012	52.2%	789,299	377,271	412,028	78,285	2,628	1,112	7,176	3,538	1,718
2013	54.1%	791,832	363,453	428,379	77,923	2,612	1,105	7,134	3,517	1,708
2014	56.9%	794,323	342,118	452,205	77,247	2,597	1,099	7,092	3,496	1,698
2015	60.0%	795,698	318,222	477,476	76,491	2,582	1,093	7,053	3,477	1,688
2016	62.5%	798,068	299,551	498,517	76,135	2,575	1,090	7,034	3,468	1,684
2017	64.7%	802,464	283,490	518,974	76,708	2,596	1,098	7,091	3,496	1,697
2018	65.6%	804,837	277,168	527,669	76,507	2,583	1,093	7,055	3,478	1,688
2019	67.3%	807,071	264,284	542,787	76,266	2,568	1,087	7,015	3,459	1,679
2020	68.7%	810,694	253,741	556,953	76,136	2,556	1,082	6,983	3,443	1,671
2021	69.6%	816,837	248,245	568,592	76,738	2,568	1,087	7,017	3,460	1,679
2022	70.1%	822,953	246,242	576,711	77,347	2,581	1,092	7,051	3,476	1,687
2023	70.4%	829,180	245,651	583,529	78,002	2,595	1,098	7,089	3,495	1,696
2024	70.6%	835,530	245,254	590,276	78,677	2,609	1,104	7,127	3,514	1,706
2025	70.9%	842,027	245,233	596,795	79,372	2,624	1,110	7,168	3,534	1,715
2026	71.0%	848,581	246,070	602,511	80,063	2,638	1,116	7,207	3,553	1,725
2027	71.0%	855,143	247,654	607,489	80,758	2,652	1,122	7,246	3,572	1,734
2028	71.0%	861,830	249,647	612,183	81,483	2,667	1,129	7,287	3,593	1,744
2029	71.0%	868,628	251,839	616,789	82,232	2,683	1,135	7,330	3,614	1,754
2030	71.0%	875,647	254,180	621,467	83,034	2,700	1,143	7,377	3,637	1,765

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Page		17	22	25	27	28	20	33	42	30	9
National Nationa	,										
Vear Apt Org Green Apt Org Sites organ Rec Comp Univer Org Green Org Serv Enforce Enforce Out Out Description 1997 43,130 14,137 5,000 194,323 - <th></th> <th></th> <th></th> <th></th> <th></th> <th>Food-</th> <th></th> <th></th> <th></th> <th>Enhance</th> <th></th>						Food-				Enhance	
Name						ware	MF	Incr Res		Com	Phone &
R		Curb/	Clean	Drop	Com Priv	Rec/	Univer	Ban		Paper Ban	Junk Opt
1997 43,130 14,137 5,000 194,223 - <th>Year</th> <th>Apt Org</th> <th>Green</th> <th>Sites</th> <th>Rec</th> <th>Comp</th> <th>Org Serv</th> <th>Enforce</th> <th>Carpet</th> <th>Enforce</th> <th>Out</th>	Year	Apt Org	Green	Sites	Rec	Comp	Org Serv	Enforce	Carpet	Enforce	Out
1998 40,546 13,034 5,376 194,251 -						35	13	19	36	38	44
1999 39,737 13,692 6,612 199,968 - - - - - - - - -						-	-	-	-	-	-
2000 34,037 14,032 7,109 162,989 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>						-	-	-	-	-	-
2001 36,990 15,034 7,103 149,653 - <td></td>											
2002 34,503 14,353 8,340 149,025 - <td></td>											
2003 33,923 14,156 8,170 126,956 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>						-	-	-	-	-	-
2005 42,603 13,925 9,232 179,265 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>						-	-	-	-	-	-
2006 51,482 14,277 9,745 215,258 - <td>2004</td> <td></td> <td></td> <td></td> <td>159,341</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	2004				159,341	-	-	-	-	-	-
2007 54,573 14,247 11,246 219,894 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>						-	-	-	-	-	-
2008 56,364 11,893 8,662 213,493 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>						-	-	-	-	-	-
2009 74,230 10,149 6,179 184,593 - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td>						-	-	-	-	-	
2010 76,624 11,351 6,907 205,610 1,840 -					· · · · · · · · · · · · · · · · · · ·						
2011 77,214 11,571 7,033 206,360 4,161 -						1.840	-	_	_	_	_
2012 78,462 11,925 7,229 208,209 7,793 1,647 1,052 93 790 371 2013 79,800 12,190 7,341 208,764 11,418 3,024 2,325 237 1,993 834 2014 80,962 12,414 7,373 209,507 13,795 4,285 4,235 543 4,511 1,552 2015 82,021 12,583 7,309 209,800 14,941 4,896 6,086 1,021 8,403 2,281 2016 83,062 12,742 7,235 210,186 15,427 5,027 7,272 1,509 12,311 2,770 2017 84,518 12,824 7,173 210,536 15,628 5,051 7,911 1,830 14,860 3,041 2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td>							_				_
2013 79,800 12,190 7,341 208,764 11,418 3,024 2,325 237 1,993 834 2014 80,962 12,414 7,373 209,507 13,795 4,285 4,235 543 4,511 1,552 2015 82,021 12,583 7,309 209,800 14,941 4,896 6,086 1,021 8,403 2,281 2016 83,062 12,742 7,235 210,186 15,427 5,027 7,272 1,509 12,311 2,770 2017 84,518 12,824 7,173 210,536 15,628 5,051 7,911 1,830 14,860 3,041 2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350							1 647	1 052	93	790	371
2014 80,962 12,414 7,373 209,507 13,795 4,285 4,235 543 4,511 1,552 2015 82,021 12,583 7,309 209,800 14,941 4,896 6,086 1,021 8,403 2,281 2016 83,062 12,742 7,235 210,186 15,427 5,027 7,272 1,509 12,311 2,770 2017 84,518 12,824 7,173 210,536 15,628 5,051 7,911 1,830 14,860 3,041 2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,283 <td></td>											
2015 82,021 12,583 7,309 209,800 14,941 4,896 6,086 1,021 8,403 2,281 2016 83,062 12,742 7,235 210,186 15,427 5,027 7,272 1,509 12,311 2,770 2017 84,518 12,824 7,173 210,536 15,628 5,051 7,911 1,830 14,860 3,041 2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 <											
2016 83,062 12,742 7,235 210,186 15,427 5,027 7,272 1,509 12,311 2,770 2017 84,518 12,824 7,173 210,536 15,628 5,051 7,911 1,830 14,860 3,041 2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,244											
2017 84,518 12,824 7,173 210,536 15,628 5,051 7,911 1,830 14,860 3,041 2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244											
2018 84,526 12,992 7,213 211,185 15,737 5,046 8,141 1,356 16,121 3,132 2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266											
2019 84,252 13,145 7,276 212,031 15,818 5,052 8,219 1,415 16,686 3,157 2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286											
2020 83,989 13,295 7,350 213,477 15,967 5,077 8,253 1,447 16,992 3,160 2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307											
2021 84,488 13,443 7,429 214,826 16,055 5,156 8,346 1,470 17,157 3,183 2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329	2019	84,252	13,145	7,276	212,031	15,818	5,052		1,415	16,686	3,157
2022 84,974 13,602 7,515 216,103 16,137 5,238 8,432 1,490 17,275 3,203 2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2020	83,989	13,295	7,350	213,477	15,967	5,077	8,253	1,447	16,992	3,160
2023 85,501 13,761 7,603 217,340 16,214 5,324 8,521 1,508 17,374 3,224 2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2021	84,488	13,443	7,429	214,826	16,055	5,156	8,346	1,470	17,157	3,183
2024 86,043 13,921 7,691 218,598 16,293 5,414 8,611 1,526 17,467 3,244 2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2022	84,974	13,602	7,515	216,103	16,137	5,238	8,432	1,490	17,275	3,203
2025 86,601 14,081 7,779 219,885 16,373 5,505 8,703 1,543 17,562 3,266 2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2023	85,501	13,761	7,603	217,340	16,214	5,324	8,521	1,508	17,374	3,224
2026 87,150 14,241 7,868 221,207 16,456 5,598 8,795 1,561 17,659 3,286 2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2024	86,043	13,921	7,691	218,598	16,293	5,414	8,611	1,526	17,467	3,244
2027 87,699 14,400 7,955 222,528 16,541 5,692 8,888 1,578 17,756 3,307 2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2025	86,601	14,081	7,779	219,885	16,373	5,505	8,703	1,543	17,562	3,266
2028 88,276 14,554 8,040 223,887 16,631 5,789 8,984 1,595 17,857 3,329 2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2026	87,150	14,241	7,868	221,207	16,456	5,598	8,795	1,561	17,659	3,286
2029 88,874 14,705 8,124 225,269 16,722 5,888 9,084 1,612 17,960 3,351	2027	87,699	14,400	7,955	222,528	16,541	5,692	8,888	1,578	17,756	3,307
	2028	88,276	14,554	8,040	223,887	16,631	5,789	8,984	1,595	17,857	3,329
2030 89,524 14,861 8,210 226,630 16,811 5,993 9,190 1,629 18,060 3,376	2029	88,874	14,705	8,124	225,269	16,722	5,888	9,084	1,612	17,960	3,351
	2030	89,524	14,861	8,210	226,630	16,811	5,993	9,190	1,629	18,060	3,376

	23	52	44	45	38	41	46	21	6	32
		_	_,							
		Ban Asphalt	Floor	Fuhana	Restore Educa-	Educa-	Dlast	CF 0***	Davisa	Futond
Voor	ABC Ban	Shingles	Sort 50% C&D	Enhanc Com Org	tion	tion Audits	Plast Film Ban	SF Org Ban	Reuse Bag Res	Extend Com Ban
Teal	22	26	29	37	41	43	50	18	20	39
1997	-	-	-	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	-	-
1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-
2001	-	-	-				-		-	-
2002	-	-	-	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-	-	-
2009	-									
2010	_	_	_	_	_	_	_	_	_	
2011	_	_	_		_	_		_	_	-
2012	-	_	_	_	_	_	_	-	_	_
2013	1,401	646	2,216	935	519	400	336	-	-	-
2014	2,642	693	4,935	2,020	1,141	907	618	1,881	10	733
2015	3,903	628	8,961	3,670	2,044	1,682	892	4,114	22	1,655
2016	4,748	542	12,715	-	2,870	2,396	1,053	7,545	43	3,084
2017	5,159	486	15,069	-	3,371	2,852	1,115	11,073	67	4,520
2018	4,278	463	16,319	-	3,615	3,091	95	13,254	85	5,466
2019	4,378	457	16,937	-	3,729	3,209	97	14,244	95	5,938
2020	4,447	458	17,293	-	3,790	3,276	98	14,614	100	6,170
2021	4,504	461	17,548	-	3,839	3,325	99	14,853	102	6,284
2022	4,560	466	17,778	-	3,882	3,368	101	14,987	104	6,352
2023	4,614	471	17,995	-	3,923	3,409	102	15,091	105	6,402
2024	4,668	476	18,206	-	3,963	3,449	103	15,182	106	6,448
2025	4,722	482	18,417	-	4,003	3,489	104	15,271	107	6,492
2026	4,776	487	18,627	-	4,044	3,529	105	15,356	108	6,537
2027	4,829	493	18,835	-	4,084	3,568	107	15,440	109	6,582
2028	4,880	498	19,036	-	4,124	3,606	108	15,528	110	6,628
2029	4,931	503	19,234	-	4,164	3,644	109	15,619	111	6,675
2030	4,984	508	19,438	-	4,205	3,682	110	15,720	113	6,723

	53	31	18	13	10	49	29	26	55	50
-	- 33	- 31	10	- 15	10	,,,			- 33	30
				Latex						
	Ban		Plast	Paint	Divert	Textile		Pre		Pet
	Clean	MF Org	Bag Ban	Prod	Reuse-	Market	Ban Com	Scale	Com	Waste &
Year	Wood	Ban	Res	Stew	ables	Dev	Org	Recycle	C&D Ban	Diapers
	45	14	16	42	52	12	32	51	46	15
1997	-	-	-	-	-	-	-	-	-	-
1998 1999	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-		<u>-</u>	-	
2001	-	-	-	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-	-	-	-
2004	-	-		-	-	-	-	-		
2006	-	-	-	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	-	-
2010	-	-	-	-	-	-	-	-	-	-
2011	-	-	-	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-
2014	4,219	-	-	-	-	-	-	-	-	-
2015	7,536	255	155	209	26	-	-	-	-	
2016	10,570	589	288	390	48	87	1,234	786	-	-
2017	12,377	1,277	425	575	71	222	3,093	1,164	-	-
2018	6,666	2,333	512	696	87	512	6,984	1,424	3,935	-
2019	6,870	3,395	552	756	95	997	13,017	1,560	7,339	-
2020	6,996	4,101	569	784	99	1,563	19,180	1,627	10,752	159
2021	7,092	4,500	581	801	102	2,032	23,244	1,665	13,041	418
2022	7,183	4,712	589	812	103	2,311	25,266	1,692	14,193	1,049
2023	7,269	4,844	595	822	105	2,454	26,168	1,714	14,727	2,376
2024	7,354	4,946	602	831	106	2,527	26,587	1,735	15,000	4,442
2025	7,439	5,038	608	841	107	2,572	26,812	1,755	15,177	6,537
2026	7,524	5,125	614	851	108	2,605	26,967	1,775	15,319	7,929
2027	7,608	5,212	620	860	110	2,635	27,089	1,795	15,448	8,633
2028	7,689	5,302	626	870	111	2,664	27,212	1,815	15,568	8,963
2029	7,769	5,393	633	881	112	2,693	27,323	1,833	15,691	9,132
2030	7,852	5,489	640	892	113	2,724	27,421	1,853	15,819	9,243

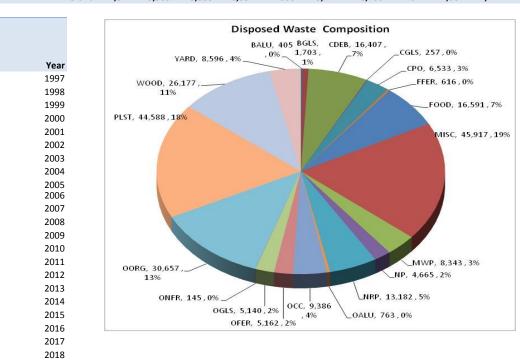
Summary - Program Sector Materials Diversion by Program Recommended Year 2025 All MSW Sectors

na - t - ul - l naciar		Total	Total	Total		Curb/Apt			Grasscy	BY YW		Curb/Apt
Material MSW		Disposed 1	Recycled 2	Generated 3	Recycled (2/3)	Rec 2	City 3	In City 4	cie 5	Not City 6	Not City	Org
Aluminum Beverage	BALU	405	2,628	3,033	86.6%	965	-	-	-	-	-	-
Beverage Glass	BGLS	1,703	21,354	23,056	92.6%	15,229	-	-	-	-	-	-
Construction Debris	CDEB	16,407	14,308	30,715	46.6%	-	-	-	-	-	-	-
Container Glass	CGLS	257	3,356	3,613	92.9%	2,981	-	-	-	-	-	-
Computer Office Paper	CPO	6,533	21,301	27,834	76.5%	-	-	-	-	-	-	-
Food Cans	FFER	616	2,936	3,552	82.7%	1,082	-	-	-	-	-	-
Food	FOOD	16,591	119,243	135,834	87.8%	-	-	1,110	-	-	1,715	31,632
Miscellaneous	MISC	45,917	32,872	78,789	41.7%	-	-	-	-	-	-	-
Mixed Scrap Paper	MWP	8,343	61,803	70,147	88.1%	25,367	-	-	-	-	-	-
Newspaper	NP	4,665	44,393	49,058	90.5%	15,792	-	-	-	-	-	-
Other Paper	NRP	13,182	22,608	35,790	63.2%	-	-	-	-	-	-	3,735
Other Aluminum	OALU	763	401	1,164	34.5%	-	-	-	-	-	-	-
Corrugated Kraft	OCC	9,386	75,833	85,219	89.0%	13,453	-	-	-	-	-	-
Other Ferrous	OFER	5,162	19,985	25,147	79.5%	630	-	-	-	-	-	-
Other Glass	OGLS	5,140	971	6,110	15.9%	-	-	-	-	-	-	-
Other NonFerrous	ONFR	145	71	216	33.0%	-	-	-	-	-	-	-
Other Organics	OORG	30,657	9,109	39,766	22.9%	-	-	-	-	-	-	-
Plastics	PLST	44,588	13,831	58,419	23.7%	3,874	-	-	-	-	-	-
Wood	WOOD	26,177	28,112	54,289	51.8%	-	-	-	-	-	-	-
Yard	YARD	8,596	101,680	110,276	92.2%	-	2,624	-	7,168	3,534	-	51,235
Total	Grand 1	245,233	596,795	842,027	70.9%	79,372	2,624	1,110	7,168	3,534	1,715	86,601

(in tons per year)

	Total	Total	Total	Percent
	Disposed	Recycled	Generated	•
Year	1			(2/3)
1997	453,787	362,386	816,174	44.4%
1998	457,598	362,613	820,212	44.2%
1999	477,433	374,866	852,299	44.0%
2000	476,131	317,693	793,825	40.0%
2001	475,270	307,623	782,894	39.3%
2002	462,996	305,426	768,422	39.7%
2003	458,010	283,646	741,656	38.2%
2004	458,405	321,656	780,061	41.2%
2005	440,876	348,864	789,740	44.2%
2006	438,380	397,993	836,373	47.6%
2007	438,845	409,280	848,125	48.3%
2008	394,607	395,000	789,607	50.0%
2009	351,688	367,735	719,423	51.1%
2010	383,438	397,226	780,664	50.9%
2011	382,112	401,074	783,186	51.2%
2012	377,271	412,028	789,299	52.2%
2013	363,453	428,379	791,832	54.1%
2014	342,118	452,205	794,323	56.9%
2015	318,222	477,476	795,698	60.0%
2016	299,551	498,517	798,068	62.5%
2017	283,490	518,974	802,464	64.7%
2018	277,168	527,669	804,837	65.6%
2019	264,284	542,787	807,071	67.3%
2020	253,741	556,953	810,694	68.7%
2021	248,245	568,592	816,837	69.6%
2022	246,242	576,711	822,953	70.1%
2023	245,651	583,529	829,180	70.4%
2024	245,254	590,276	835,530	70.6%
2025	245,233	596,795	842,027	70.9%
2026	246,070	602,511	848,581	71.0%
2027	247,654	607,489	855,143	71.0%
2028	249,647	612,183	861,830	71.0%
2029	251,839	616,789	868,628	71.0%
2030	254,180	621,467	875,647	71.0%

		Textile Market	MF Univer Org	ME Org	Pet Waste &	Plast Bag Ban	SF Org	Incr Res Ban	Reuse	Clean	ABC	Drop
Material MSW		Dev	Serv	Ban	Diapers	Res	Ban		Bag Res	Green	Ban	Sites
		12	13	14	15	16	18	19	20	21	22	23
Aluminum Beverage	BALU	-	-	-	-	-	-	202	-	-	-	4
Beverage Glass	BGLS	-	-	-	-	-	-	925	-	-	-	537
Construction Debris	CDEB	-	-	-	-	-	-	-	-	-	4,722	-
Container Glass	CGLS	-	-	-	-	-	-	223	-	-	-	-
Computer Office Paper	CPO	-	-	-	-	-	-	558	-	-	-	-
Food Cans	FFER	-	-	-	-	-	-	434	-	-	-	-
Food	FOOD	-	4,499	3,916	-	-	11,053	-	-	-	-	-
Miscellaneous	MISC	-	-	-	-	-	-	-	-	-	-	63
Mixed Scrap Paper	MWP	-	-	-	-	-	-	3,452	-	-	-	477
Newspaper	NP	-	-	-	-	-	-	545	-	-	-	385
Other Paper	NRP	-	1,006	1,122	-	-	4,218	-	-	-	-	-
Other Aluminum	OALU	-	-	-	-	-	-	-	-	-	-	-
Corrugated Kraft	OCC	-	-	-	-	-	-	1,147	-	-	-	1,006
Other Ferrous	OFER	-	-	-	-	-	-	-	-	-	-	5,036
Other Glass	OGLS	-	-	-	-	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	-	-	-	-	-	-	-	-	-	-
Other Organics	OORG	2,572	-	-	6,537	-	-	-	-	-	-	-
Plastics	PLST	-	-	-	-	608	-	-	107	-	-	27
Wood	WOOD	-	-	-	-	-	-	-	-	-	-	244
Yard	YARD	-	-	-	-	-	-	1,217	-	14,081	-	-
Total	Grand 1	2,572	5,505	5,038	6,537	608	15,271	8,703	107	14,081	4,722	7,779



Material MSW		Ban Asphalt Shingles	Floor Sort 50% C&D	Com Priv Rec		Foodware Rec/Comp	Carpet	Enhanc Com Org	Enhance Com Paper Ban Enforce	Extend Com Ban	Restore Education
		26	29	30	32	35	36	37	38	39	41
Aluminum Beverage	BALU	-	-	885	-	-	-	-	-	539	17
Beverage Glass	BGLS	-	-	2,771	-	-	-	-	-	1,781	46
Construction Debris	CDEB	482	7,167	-	-	-	-	-	-	-	-
Container Glass	CGLS	-	-	-	-	-	-	-	-	128	11
Computer Office Paper	CPO	-	-	16,023	-	-	-	-	4,438	-	52
Food Cans	FFER	-	-	775	-	-	-	-	-	604	26
Food	FOOD	-	-	35,055	22,404	7,498	-	-	-	-	-
Miscellaneous	MISC	-	-	30,038	-	-	1,543	-	-	-	-
Mixed Scrap Paper	MWP	-	-	25,197	-	-	-	-	3,391	-	185
Newspaper	NP	-	-	23,919	-	-	-	-	3,558	-	194
Other Paper	NRP	-	-	-	4,408	8,119	-	-	-	-	-
Other Aluminum	OALU	-	-	-	-	-	-	-	-	365	27
Corrugated Kraft	OCC	-	750	52,004	-	-	-	-	6,175	-	438
Other Ferrous	OFER	-	1,533	6,942	-	-	-	-	-	-	466
Other Glass	OGLS	-	-	971	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	42	-	-	-	-	-	-	-	-
Other Organics	OORG	-	-	-	-	-	-	-	-	-	-
Plastics	PLST	-	-	4,407	-	755	-	-	-	3,075	-
Wood	WOOD	-	8,925	-	-	-	-	-	-	-	2,160
Yard	YARD	-	-	20,899	-	-	-	-	-	-	381
Total	Grand 1	482	18,417	219,885	26,812	16,373	1,543	-	17,562	6,492	4,003

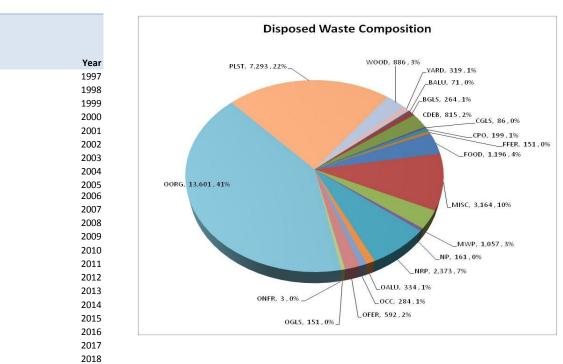
		Latex		Phone &	Ban		Plast		Divert
			Educatio	Junk Opt	Clean	Com C&D		Pre Scale R	
Material MSW		Prod Stew	n Audits	Out	Wood	Ban	Ban	Recycle	les
		42	43	44	45	46	50	51	52
Aluminum Beverage	BALU	-	4	-	-	-	-	12	-
Beverage Glass	BGLS	-	14	-	-	-	-	50	-
Construction Debris	CDEB	-	665	-	-	1,272	-	-	-
Container Glass	CGLS	-	3	-	-	-	-	10	-
Computer Office Paper	CPO	-	139	91	-	-	-	-	-
Food Cans	FFER	-	3	-	-	-	-	11	-
Food	FOOD	-	360	-	-	-	-	-	-
Miscellaneous	MISC	841	-	-	-	351	-	-	35
Mixed Scrap Paper	MWP	-	248	3,175	-	-	-	311	-
Newspaper	NP	-	-	-	-	-	-	0	-
Other Paper	NRP	-	-	-	-	-	-	-	-
Other Aluminum	OALU	-	10	-	-	-	-	-	-
Corrugated Kraft	OCC	-	382	-	-	-	-	478	-
Other Ferrous	OFER	-	246	-	-	4,248	-	860	25
Other Glass	OGLS	-	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	7	-	-	-	-	23	-
Other Organics	OORG	-	-	-	-	-	-	-	-
Plastics	PLST	-	36	-	-	839	104	-	-
Wood	WOOD	-	829	-	7,439	8,467	-	-	47
Yard	YARD	-	542	-	-	-	-	-	-
Total	Grand	1 841	3,489	3,266	7,439	15,177	104	1,755	107

Summary - Program Sector Materials Diversion by Program Recommended Year 2025 Single Family Sector

		Total	Total	Total	Percent	Curh/Ant	RV VW/ In	BY FW In G	Fracecycl	BY YW	BY FW
Material MSW		Disposed	Recycled	Generated	Recycled	Rec	City	City	e	Not City	Not City
		. 1	2	3	(2/3)	2	3	4	5	6	7
Aluminum Beverage	BALU	71	877	948	92.5%	742	-	-	-	-	-
Beverage Glass	BGLS	264	11,075	11,339	97.7%	10,575	-	-	-	-	-
Construction Debris	CDEB	815	-	815	0.0%	-	-	-	-	-	-
Container Glass	CGLS	86	2,233	2,319	96.3%	2,070	-	-	-	-	-
Computer Office Paper	CPO	199	455	653	69.6%	-	-	-	-	-	-
Food Cans	FFER	151	1,121	1,272	88.1%	835	-	-	-	-	-
Food	FOOD	1,196	41,345	42,540	97.2%	-	-	1,110	-	-	1,715
Miscellaneous	MISC	3,164	88	3,252	2.7%	-	-	-	-	-	-
Mixed Scrap Paper	MWP	1,057	23,448	24,505	95.7%	18,507	-	-	-	-	-
Newspaper	NP	161	12,227	12,388	98.7%	11,923	-	-	-	-	-
Other Paper	NRP	2,373	7,042	9,416	74.8%	-	-	-	-	-	-
Other Aluminum	OALU	334	14	348	4.0%	-	-	-	-	-	-
Corrugated Kraft	OCC	284	9,328	9,611	97.0%	8,790	-	-	-	-	-
Other Ferrous	OFER	592	414	1,006	41.2%	390	-	-	-	-	-
Other Glass	OGLS	151	-	151	0.0%	-	-	-	-	-	-
Other NonFerrous	ONFR	3	-	3	0.0%	-	-	-	-	-	-
Other Organics	OORG	13,601	7,221	20,822	34.7%	-	-	-	-	-	-
Plastics	PLST	7,293	3,388	10,681	31.7%	2,951	-	-	-	-	-
Wood	WOOD	886	37	923	4.0%	-	-	-	-	-	-
Yard	YARD	319	63,671	63,989	99.5%	-	2,624	-	7,168	3,534	-
Total	Grand	32,999	183,983	216,982	84.8%	56,782	2,624	1,110	7,168	3,534	1,715

	(in tons per	year)	,	
		, ,		
	Total	Total	Total	Percent
	Disposed	Recycled	Generated	Recycled
Year	1	2	3	(2/3)
1997	88,783	137,555	226,337	60.8%
1998	87,560	137,686	225,247	61.1%
1999	88,631	141,956	230,586	61.6%
2000	87,499	120,969	208,468	58.0%
2001	91,072	120,910	211,982	57.0%
2002	87,834	118,640	206,474	57.5%
2003	87,426	118,322	205,748	57.5%
2004	86,029	123,103	209,132	58.9%
2005	80,479	128,197	208,676	61.4%
2006	78,078	138,810	216,889	64.0%
2007	77,494	142,634	220,127	64.8%
2008	73,961	139,928	213,889	65.4%
2009	67,229	147,786	215,015	68.7%
2010	67,893	151,706	219,599	69.1%
2011	66,550	151,809	218,360	69.5%
2012	64,092	153,222	217,314	70.5%
2013	61,391	154,644	216,035	71.6%
2014	56,935	157,829	214,764	73.5%
2015	52,567	160,998	213,565	75.4%
2016	47,829	165,141	212,970	77.5%
2017	44,073	170,588	214,661	79.5%
2018	41,145	172,447	213,592	80.7%
2019	39,404	172,962	212,366	81.4%
2020	38,275	173,119	211,394	81.9%
2021	37,834	174,590	212,424	82.2%
2022	37,290	176,161	213,451	82.5%
2023	36,258	178,332	214,590	83.1%
2024	34,627	181,139	215,766	84.0%
2025	32,999	183,983	216,982	84.8%
2026	31,995	186,176	218,171	85.3%
2027	31,598	187,758	219,357	85.6%
2028	31,543	189,063	220,606	85.7%
2029	31,638	190,268	221,906	85.7%
2030	31,806	191,521	223,328	85.8%

		Curb/Apt	Textile Market	Pet Waste &	Plast Bag Ban	SF Org	Incr Res Ban	Reuse I	Restore Educatio	Phone & Junk Opt	Latex Paint
Material MSW		Org	Dev		Res	Ban	Enforce	Bag Res	n	Out	Prod
		8	12	15	16	18	19	20	41	44	42
Aluminum Beverage	BALU	-	-	-	-	-	132	-	3	-	-
Beverage Glass	BGLS	-	-	-	-	-	489	-	11	-	-
Construction Debris	CDEB	-	-	-	-	-	-	-	-	-	-
Container Glass	CGLS	-	-	-	-	-	160	-	4	-	-
Computer Office Paper	CPO	-	-	-	-	-	368	-	8	78	-
Food Cans	FFER	-	-	-	-	-	279	-	6	-	-
Food	FOOD	27,466	-	-	-	11,053	-	-	-	-	-
Miscellaneous	MISC	-	-	-	-	-	-	-	-	-	88
Mixed Scrap Paper	MWP	-	-	-	-	-	1,957	-	44	2,941	-
Newspaper	NP	-	-	-	-	-	298	-	7	-	-
Other Paper	NRP	2,825	-	-	-	4,218	-	-	-	-	-
Other Aluminum	OALU	-	-	-	-	-	-	-	14	-	-
Corrugated Kraft	OCC	-	-	-	-	-	525	-	12	-	-
Other Ferrous	OFER	-	-	-	-	-	-	-	25	-	-
Other Glass	OGLS	-	-	-	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	-	-	-	-	-	-	-	-	-
Other Organics	OORG	-	1,480	5,741	-	-	-	-	-	-	-
Plastics	PLST	-	-	-	368	-	-	69	-	-	-
Wood	WOOD	-	-	-	-	-	-	-	37	-	-
Yard	YARD	49,743	-	-	-	-	590	-	13	-	-
Total	Grand	80,033	1,480	5,741	368	15,271	4,799	69	183	3,019	88



Summary - Program Sector Materials Diversion by Program Recommended Year 2025 Multi Family Sector

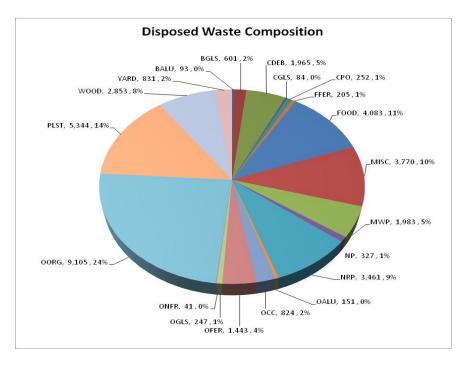
Material MSW		Total Disposed	Total Recycled	Total Generated	Percent Recycled	Curb/Apt Rec	Curb/Apt Org	Market Dev	Waste & Diapers	Bag Ban Res
Widterial Wisvv	Row Lal	•	•			2	8	12	15	16
Aluminum Beverage	BALU	93	298	391	76.2%	224	-	-	-	-
Beverage Glass	BGLS	601	5,090	5,692	89.4%	4,655	-	-	-	-
Construction Debris	CDEB	1,965	-	1,965	0.0%	-	-	-	-	-
Container Glass	CGLS	84	978	1,061	92.1%	911	-	-	-	-
Computer Office Paper	CPO	252	213	465	45.8%	-	-	-	-	-
Food Cans	FFER	205	409	615	66.6%	246	-	-	-	-
Food	FOOD	4,083	12,581	16,664	75.5%	-	4,166	-	-	-
Miscellaneous	MISC	3,770	292	4,062	7.2%	-	-	-	-	-
Mixed Scrap Paper	MWP	1,983	8,672	10,655	81.4%	6,860	-	-	-	-
Newspaper	NP	327	4,129	4,456	92.7%	3,869	-	-	-	-
Other Paper	NRP	3,461	3,038	6,499	46.7%	-	910	-	-	-
Other Aluminum	OALU	151	6	158	4.0%	-	-	-	-	-
Corrugated Kraft	OCC	824	5,318	6,143	86.6%	4,662	-	-	-	-
Other Ferrous	OFER	1,443	300	1,744	17.2%	240	-	-	-	-
Other Glass	OGLS	247	-	247	0.0%	-	-	-	-	-
Other NonFerrous	ONFR	41	-	41	0.0%	-	-	-	-	-
Other Organics	OORG	9,105	1,888	10,994	17.2%	-	-	1,092	796	-
Plastics	PLST	5,344	1,201	6,545	18.4%	923	-	-	-	240
Wood	WOOD	2,853	119	2,972	4.0%	-	-	-	-	-
Yard	YARD	831	2,154	2,985	72.2%	-	1,492		-	-
Total	Grand T	37,665	46,688	84,353	55.3%	22,590	6,568	1,092	796	240

	Total	Total	Total	Percent
	Disposed	Recycled	Generated	Recycled
Year	1	. 2	. 3	(2/3)
1997	59,189	11,371	70,560	16.1%
1998	58,374	12,266	70,640	17.4%
1999	59,087	12,639	71,726	17.6%
2000	58,333	12,595	70,927	17.8%
2001	53,487	15,124	68,611	22.0%
2002	55,076	15,068	70,144	21.5%
2003	56,106	16,043	72,149	22.2%
2004	56,498	16,142	72,640	22.2%
2005	54,080	18,245	72,325	25.2%
2006	55,643	19,903	75,545	26.3%
2007	55,759	21,261	77,020	27.6%
2008	53,199	21,024	74,223	28.3%
2009	51,497	19,028	70,524	27.0%
2010	52,955	19,813	72,767	27.2%
2011	52,950	20,140	73,090	27.6%
2012	50,703	22,766	73,469	31.0%
2013	48,330	25,431	73,761	34.5%
2014	45,536	28,509	74,046	38.5%
2015	42,736	31,612	74,347	42.5%
2016	40,879	34,106	74,985	45.5%
2017	39,760	36,414	76,174	47.8%
2018	38,460	38,313	76,773	49.9%
2019	37,266	39,926	77,193	51.7%
2020	36,497	41,208	77,705	53.0%
2021	36,457	42,506	78,963	53.8%
2022	36,664	43,574	80,238	54.3%
2023	36,983	44,592	81,575	54.7%
2024	37,304	45,642	82,946	55.0%
2025	37,665	46,688	84,353	55.3%
2026	38,125	47,646	85,771	55.6%
2027	38,681	48,529	87,209	55.6%
2028	39,305	49,390	88,695	55.7%
2029	39,969	50,255	90,223	55.7%
	33,303	30,233	30,223	33.770
2030	40,674	51,153	91,826	55.7%

Appendix D: Economic Analysis of New Wste Prevention and Recycling Programs

		Ban	Reuse	Univer	MF Org E		•	Paint
Material MSW		Enforce	Bag Res	Org Serv	Ban	n	Out	Prod
	Row Lat	19	20	13	14	41	44	42
Aluminum Beverage	BALU	70	-	-	-	4	-	-
Beverage Glass	BGLS	436	-	-	-	-	-	-
Construction Debris	CDEB	-	-	-	-	-	-	-
Container Glass	CGLS	63	-	-	-	3	-	-
Computer Office Paper	CPO	190	-	-	-	11	12	-
Food Cans	FFER	155	-	-	-	9	-	-
Food	FOOD	-	-	4,499	3,916	-	-	-
Miscellaneous	MISC	-	-	-	-	-	-	292
Mixed Scrap Paper	MWP	1,495	-	-	-	83	234	-
Newspaper	NP	247	-	-	-	14	-	-
Other Paper	NRP	-	-	1,006	1,122	-	-	-
Other Aluminum	OALU	-	-	-	-	6	-	-
Corrugated Kraft	OCC	622	-	-	-	34	-	-
Other Ferrous	OFER	-	-	-	-	60	-	-
Other Glass	OGLS	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	-	-	-	-	-	-
Other Organics	OORG	-	-	-	-	-	-	-
Plastics	PLST	-	38	-	-	-	-	-
Wood	WOOD	-	-	-	-	119	-	-
Yard	YARD	627	-	-	-	35	-	-
Total	Grand T	3,905	38	5,505	5,038	377	247	292



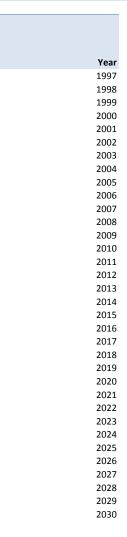


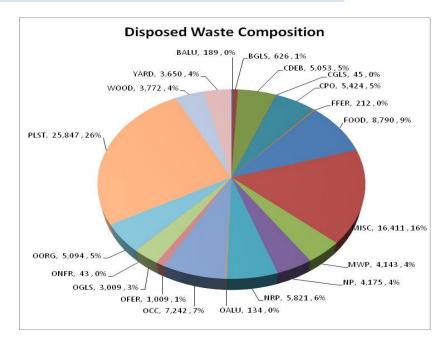
Summary - Program Sector Materials Diversion by Program Recommended Year 2025 Commercial Sector

Backer in Lacous		Total	Total	Total	Percent	Com Priv		Foodware	C1	Enhanc
Material MSW		Disposed 1	Recycled 2	Generated 3	Recycled (2/3)	Rec 30	Org 32	Rec/Comp 35	Carpet 36	Org 37
Aluminum Beverage	BALU	189	1,431	1,620	88.3%	885	-	-	-	-
Beverage Glass	BGLS	626	4,578	5,204	88.0%	2,771	-	-	-	-
Construction Debris	CDEB	5,053	1,272	6,325	20.1%	-	-	-	-	-
Container Glass	CGLS	45	130	175	74.3%	-	-	-	-	-
Computer Office Paper	CPO	5,424	20,461	25,886	79.0%	16,023	-	-	-	-
Food Cans	FFER	212	1,388	1,601	86.7%	775	-	-	-	-
Food	FOOD	8,790	64,957	73,746	88.1%	35,055	22,404	7,498	-	-
Miscellaneous	MISC	16,411	30,850	47,260	65.3%	30,038	-	-	-	-
Mixed Scrap Paper	MWP	4,143	28,590	32,733	87.3%	25,197	-	-	-	-
Newspaper	NP	4,175	27,651	31,825	86.9%	23,919	-	-	-	-
Other Paper	NRP	5,821	12,528	18,349	68.3%	-	4,408	8,119	-	-
Other Aluminum	OALU	134	365	499	73.2%	-	-	-	-	-
Corrugated Kraft	occ	7,242	58,484	65,727	89.0%	52,004	-	-	-	-
Other Ferrous	OFER	1,009	11,412	12,421	91.9%	6,942	-	-	-	-
Other Glass	OGLS	3,009	971	3,980	24.4%	971	-	-	-	-
Other NonFerrous	ONFR	43	0	43	0.0%	-	-	-	-	-
Other Organics	OORG	5,094	-	5,094	0.0%	-	-	-	-	-
Plastics	PLST	25,847	9,080	34,927	26.0%	4,407	-	755	-	-
Wood	WOOD	3,772	8,977	12,749	70.4%	-	-	-	-	-
Yard	YARD	3,650	21,052	24,701	85.2%	20,899	-	-	-	-
Total		100,690	304,177	404,866	75.1%	219,885	26,812	16,373	-	-

TOLAI			100,030	304,177	404,000	/3.1/0
		(in tons per y	ear)		
		1	Гotal	Total	Total	Percent
			Disposed	Recycled	Generated	Recycled
	Year		1	2	3	(2/3)
	1997		208,670	194,323	402,994	48.2%
	1998		213,646	194,251	407,896	47.6%
	1999		225,348	199,968	425,316	47.0%
	2000		228,417	162,989	391,405	41.6%
	2001		228,405	149,453	377,858	39.6%
	2002		217,195	149,025	366,220	40.7%
	2003		213,247	126,956	340,202	37.3%
	2004		216,112	159,341	375,453	42.4%
	2005		205,819	179,265	385,083	46.6%
	2006		201,231	215,258	416,489	51.7%
	2007		198,493	219,894	418,387	52.6%
	2008		176,774	213,493	390,267	54.7%
	2009		151,398	184,593	335,992	54.9%
	2010		171,363	207,450	378,813	54.8%
	2011		169,610	210,521	380,131	55.4%
	2012		166,665	216,824	383,489	56.5%
	2013		160,445	224,014	384,460	58.3%
	2014		151,526	234,242	385,769	60.7%
	2015		141,536	244,879	386,415	63.4%
	2016		136,103	251,099	387,203	64.8%
	2017		128,921	259,003	387,925	66.8%
	2018		128,020	261,135	389,155	67.1%
	2019		118,120	272,598	390,718	69.8%
	2020		109,019	284,337	393,356	72.3%
	2021		103,348	292,427	395,775	73.9%
	2022		100,897	297,162	398,060	74.7%
	2023		100,201	300,074	400,275	75.0%
	2024		100,283	302,255	402,538	75.1%
	2025		100,690	304,177	404,866	75.1%
	2026		101,232	306,036	407,268	75.1%
	2027		101,824	307,849	409,674	75.1%
	2028		102,442	309,701	412,143	75.1%
	2029		103,084	311,574	414,658	75.1%
	2030		103,730	313,412	417,142	75.1%
			•			

		Com Paper				Educati		Latex Paint	
Material MSW		Ban Enforce	Extend Com Ban	Restore Education	Film Ban	on Audits	ABC Ban	Stew	an Clean Wood
		38	39	41	50	43	22	42	45
Aluminum Beverage	BALU	-	539	8	-	0	-	-	-
Beverage Glass	BGLS	-	1,781	26	-	0	-	-	-
Construction Debris	CDEB	-	-	-	-	-	-	-	-
Container Glass	CGLS	-	128	2	-	0	-	-	-
Computer Office Paper	CPO	4,438	-	-	-	-	-	-	-
Food Cans	FFER	-	604	9	-	0	-	-	-
Food	FOOD	-	-	-	-	-	-	-	-
Miscellaneous	MISC	-	-	-	-	-	-	461	-
Mixed Scrap Paper	MWP	3,391	-	-	-	2	-	-	-
Newspaper	NP	3,558	-	174	-	-	-	-	-
Other Paper	NRP	-	-	-	-	-	-	-	-
Other Aluminum	OALU	-	365	-	-	0	-	-	-
Corrugated Kraft	OCC	6,175	-	302	-	4	-	-	-
Other Ferrous	OFER	-	-	219	-	3	-	-	-
Other Glass	OGLS	-	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	-	-	-	0	-	-	-
Other Organics	OORG	-	-	-	-	-	-	-	-
Plastics	PLST	-	3,075	-	-	5	-	-	-
Wood	WOOD	-	-	510	-	-	-	-	-
Yard	YARD	-	-	152	-	-	-	-	-
Total		17,562	6,492	1,402	-	14	-	461	-



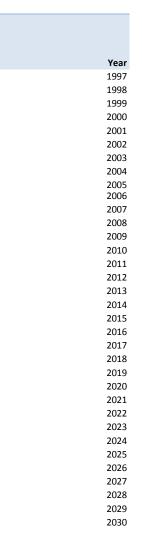


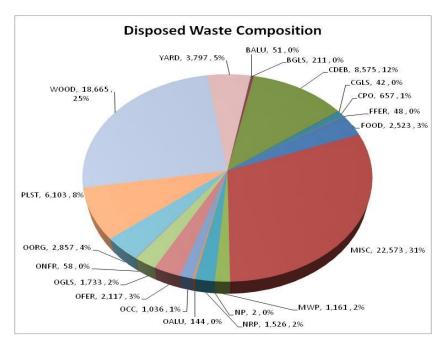
Summary - Program Sector Materials Diversion by Program Recommended Year 2025 Self Haul Sector

		Total	Total	Total	Percent		Drop		Ban Asphalt	Floor Sort
Material MSW		Disposed	Recycled	Generated	Recycled	Clean Green	Sites	Carpet	Shingles	50% C&D
		1	2	3	(2/3)	21	23	36	26	29
Aluminum Beverage	BALU	51	22	73	30.1%	-	4	-	-	-
Beverage Glass	BGLS	211	610	822	74.3%	-	537	-	-	-
Construction Debris	CDEB	8,575	13,036	21,611	60.3%	-	-	-	482	7,167
Container Glass	CGLS	42	15	57	25.7%	-	-	-	-	-
Computer Office Paper	CPO	657	173	830	20.8%	-	-	-	-	-
Food Cans	FFER	48	17	65	25.7%	-	-	-	-	-
Food	FOOD	2,523	360	2,883	12.5%	-	-	-	-	-
Miscellaneous	MISC	22,573	1,642	24,215	6.8%	-	63	1,543	-	-
Mixed Scrap Paper	MWP	1,161	1,093	2,253	48.5%	-	477	-	-	-
Newspaper	NP	2	386	388	99.4%	-	385	-	-	-
Other Paper	NRP	1,526	-	1,526	0.0%	-	-	-	-	-
Other Aluminum	OALU	144	16	160	10.0%	-	-	-	-	-
Corrugated Kraft	OCC	1,036	2,703	3,739	72.3%	-	1,006	-	-	750
Other Ferrous	OFER	2,117	7,859	9,976	78.8%	-	5,036	-	-	1,533
Other Glass	OGLS	1,733	-	1,733	0.0%	-	-	-	-	-
Other NonFerrous	ONFR	58	71	129	55.1%	-	-	-	-	42
Other Organics	OORG	2,857	-	2,857	0.0%	-	-	-	-	-
Plastics	PLST	6,103	162	6,265	2.6%	-	27	-	-	-
Wood	WOOD	18,665	18,979	37,644	50.4%	-	244	-	-	8,925
Yard	YARD	3,797	14,804	18,601	79.6%	14,081	-	-	-	-
Total		73,879	61,947	135,826	#N/A	14,081	7,779	1,543	482	18,417

 	,	0=,0		,,,,
	(in tons pe	r year)		
	Total	Total	Total	Percent
	Disposed	Recycled	Generated	Recycled
Year	1	2	3	(2/3)
1997	97,146	19,137	116,283	16.5%
1998	98,019	18,410	116,429	15.8%
1999	104,367	20,304	124,671	16.3%
2000	101,883	21,141	123,024	17.2%
2001	102,305	22,137	124,442	17.8%
2002	102,891	22,693	125,584	18.1%
2003	101,232	22,325	123,557	18.1%
2004	99,766	23,070	122,836	18.8%
2005	100,499	23,157	123,656	18.7%
2006	103,428	24,022	127,450	18.8%
2007	107,098	25,492	132,591	19.2%
2008	90,673	20,556	111,229	18.5%
2009	81,565	16,328	97,893	16.7%
2010	91,226	18,257	109,484	16.7%
2011	93,001	18,604	111,605	16.7%
2012	95,811	19,216	115,027	16.7%
2013	93,287	24,290	117,576	20.7%
2014	88,120	31,624	119,745	26.4%
2015	81,383	39,988	121,371	32.9%
2016	74,740	48,171	122,911	39.2%
2017	70,736	52,968	123,704	42.8%
2018	69,543	55,774	125,317	44.5%
2019	69,493	57,300	126,794	45.2%
2020	69,949	58,290	128,239	45.5%
2021	70,605	59,069	129,674	45.6%
2022	71,391	59,813	131,204	45.6%
2023	72,209	60,531	132,740	45.6%
2024	73,039	61,239	134,279	45.6%
2025	73,879	61,947	135,826	45.6%
2026	74,718	62,653	137,370	45.6%
2027	75,551	63,352	138,904	45.6%
2028	76,358	64,029	140,387	45.6%
2029	77,149	64,692	141,841	45.6%
2030	77,970	65,381	143,351	45.6%

Material MSW		Restore Education 41	Plast Film Ban 50	Pre Scale Recycle 51	Education Audits 43	Divert Reusea bles 52	ABC Ban	Ban Clean Wood 45
Aluminum Beverage	BALU	2	-	12	3	-	-	-
Beverage Glass	BGLS	9	-	50	14	-	_	-
Construction Debris	CDEB	-	-	-	665	-	4,722	-
Container Glass	CGLS	2	-	10	3	-	-	-
Computer Office Paper	CPO	33	-	-	139	-	-	-
Food Cans	FFER	2	-	11	3	-	-	-
Food	FOOD	-	-	-	360	-	-	-
Miscellaneous	MISC	-	-	-	-	35	-	-
Mixed Scrap Paper	MWP	59	-	311	246	-	-	-
Newspaper	NP	0	-	0	-	-	-	-
Other Paper	NRP	-	-	-	-	-	-	-
Other Aluminum	OALU	6	-	-	10	-	-	-
Corrugated Kraft	OCC	90	-	478	379	-	-	-
Other Ferrous	OFER	162	-	860	243	25	-	-
Other Glass	OGLS	-	-	-	-	-	-	-
Other NonFerrous	ONFR	-	-	23	7	-	-	-
Other Organics	OORG	-	-	-	-	-	-	-
Plastics	PLST	-	104	-	31	-	-	-
Wood	WOOD	1,494	-	-	829	47	-	7,439
Yard	YARD	181	-	-	542	-	-	-
Total		2,041	104	1,755	3,476	107	4,722	7,439





Summary of Recycling Program Benefits and Costs Scenario 31, Recommended

All Programs in Scenario							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$93,144,347	\$116,013	\$262,341	\$972,064	\$2,126,512	\$3,988,811	\$6,018,053
Program Cost	\$74,041,214	\$431,561	\$1,194,000	\$1,910,605	\$2,798,128	\$3,973,167	\$5,016,887
Net Benefits	\$19,103,133	(\$315,548)	(\$931,659)	(\$938,540)	(\$671,616)	\$15,644	\$1,001,166
Tons avoided through recycling	2,492,448	1,840	4,161	11,746	26,284	48,719	73,379
1/13/2012	(All costs in 2010 of	dollars)					
12 Textile Market Dev							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$1,594,928	\$0	\$0	\$0	\$0	\$0	\$0
Program Cost	\$287,692	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$75,000
Net Benefits	\$1,307,236	\$0	\$0	\$0	\$0	\$0	(\$75,000
Tons avoided through recycling	28,596	-	-	-	-	-	(475)555
PV per ton	\$46						
. v per ton	7.0						
13 MF Univer Org Serv							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$6,239,071	\$0	\$0	\$228,037	\$418,673	\$593,199	\$677,821
Program Cost	\$3,389,494	\$0	\$200,000	\$212,001	\$213,632	\$299,351	\$340,913
Net Benefits	\$2,849,577	\$0	(\$200,000)	\$16,036	\$205,041	\$293,848	\$336,908
Tons avoided through recycling	94,700	-	-	1,647	3,024	4,285	4,896
PV per ton	\$30						
14 MF Org Ban							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$3,599,830	\$0	\$0	\$0	\$0	\$0	\$35,281
Program Cost	\$1,981,153	\$0	\$0	\$0	\$0	\$135,000	\$97,328
Net Benefits	\$1,618,677	\$0	\$0	\$0	\$0	(\$135,000)	(\$62,047
Tons avoided through recycling	62,510	-	-	-	-	(\$255)555)	255
PV per ton	\$26						
. v per ton	7-0						
15 Pet Waste & Diapers							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$2,938,090	\$0	\$0	\$0	\$0	\$0	\$0
Program Cost	\$3,534,864	\$0	\$0	\$0	\$0	\$0	\$0
Net Benefits	(\$596,774)	\$0	\$0	\$0	\$0	\$0	\$0
Tons avoided through recycling	58,881	-	-	-	-	-	-
PV per ton	(\$10)						
16 Plast Bag Ban Res							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$520,976	\$0	\$0	\$0	\$0	\$0	\$21,465
Program Cost	(\$733,543)	\$0	\$0	\$0	\$0	\$0	(\$100,000
Net Benefits	\$1,254,519	\$0	\$0	\$0	\$0	\$0	\$121,465
Tons avoided through recycling	8,609	-	-	-	-	-	155
PV per ton	\$146						
·							
18 SF Org Ban							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$13,414,355	\$0	\$0	\$0	\$0	\$260,454	\$569,524
Program Cost	\$11,470,744	\$0	\$0	\$0	\$90,000	\$241,043	\$483,344
Net Benefits	\$1,943,612	\$0	\$0	\$0	(\$90,000)	\$19,411	\$86,179
Tons avoided through recycling	219,771	-	-	-	-	1,881	4,114
PV per ton	\$9						
19 Incr Res Ban Enforce							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$9,051,551	\$0	\$0	\$145,663	\$321,920	\$586,320	\$842,646
Program Cost	\$3,277,034	\$0	\$50,000	\$108,064	\$158,998	\$235,380	\$309,372
Net Benefits	\$5,774,517	\$0	(\$50,000)	\$37,599	\$162,921	\$350,940	\$533,274
Tons avoided through recycling	141,049	-	(,, = =,===)	1,052	2,325	4,235	6,086
PV per ton	\$41			,	,	,	,
·	Ŧ ·-						
20 Reuse Bag Res							
Year	Present Value	2010	2011	2012	2013	2014	201
5 5 f::	\$90,348	\$0	\$0	\$0	\$0	\$1,346	\$3,082
Program Benefits					40	¢2E 000	COL OUG
Program Cost	\$200,307	\$0	\$0	\$0	\$0	\$25,000	\$25,000
Program Cost Net Benefits	(\$109,959)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$23,654)	(\$21,918
Program Cost							\$25,000 (\$21,918 22

All Programs in Scenario Year	2016	2017	2018	2019	2020	2021
Program Benefits						
· ·	\$7,732,125	\$9,291,304	\$10,108,935	\$11,240,107	\$12,200,744	\$12,880,873
Program Cost	\$5,630,296	\$6,374,595	\$7,275,358	\$8,620,722	\$9,035,307	\$9,714,416
Net Benefits	\$2,101,830	\$2,916,709	\$2,833,577	\$2,619,385	\$3,165,437	\$3,166,457
Tons avoided through recycling	93,306	111,237	119,349	134,011	146,972	155,856
1/13/2012						
12 Textile Market Dev						
Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$11,995	\$30,741	\$70,891	\$137,975	\$216,397	\$281,276
Program Cost	\$100,000	\$60,000	\$35,000	\$25,000	\$25,000	\$25,000
Net Benefits	(\$88,005)	(\$29,259)	\$35,891	\$112,975	\$191,397	\$256,276
Tons avoided through recycling	87	222	512	997	1,563	2,032
PV per ton						
12 ME Univer Ora Semi						
13 MF Univer Org Serv	2016	2017	2018	2019	2020	202
Year Drogram Bonofits	\$695,942	\$699,378	\$698,591	\$699,429	\$702,868	\$713,784
Program Benefits					\$353,215	
Program Cost Net Benefits	\$349,813	\$351,501	\$351,114	\$351,526		\$408,576 \$305,207
	\$346,129	\$347,877	\$347,476	\$347,903	\$349,653	
Tons avoided through recycling PV per ton	5,027	5,051	5,046	5,052	5,077	5,156
PV per ton						
14 MF Org Ban						
Year	2016	2017	2018	2019	2020	202
Program Benefits	\$81,480	\$176,832	\$323,021	\$469,985	\$567,753	\$623,040
Program Cost	\$48,019	\$94,851	\$166,653	\$238,834	\$286,853	\$314,007
Net Benefits	\$33,461	\$81,981	\$156,369	\$231,151	\$280,900	\$309,032
Tons avoided through recycling	589	1,277	2,333	3,395	4,101	4,500
PV per ton						
15 Pot Masta P Diamors						
15 Pet Waste & Diapers Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$0	\$0	\$0	\$0	\$22,076	\$57,821
Program Cost	\$0 \$0	\$0 \$0	\$0 \$0	\$345,000	\$39,679	\$117,145
Net Benefits	\$0 \$0	\$0 \$0	\$0 \$0		(\$17,603)	
Tons avoided through recycling	\$ 0	\$ 0	\$ 0	(\$345,000)	(\$17,603)	(\$59,324 418
PV per ton	-	-	-	-	159	410
r v per ton						
16 Plast Bag Ban Res						
Year	2016	2017	2018	2019	2020	202
Program Benefits	\$39,909	\$58,899	\$70,870	\$76,481	\$78,797	\$80,427
Program Cost	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000)	(\$100,000
Net Benefits		6450.000	\$170,870	\$176,481		
inet beliefits	\$139,909	\$158,899	\$170,670		\$178,797	\$180,427
Tons avoided through recycling	\$139,909 288	\$158,899 425	5170,870 512	552	\$178,797 569	
Tons avoided through recycling PV per ton						
Tons avoided through recycling PV per ton 18 SF Org Ban	288	425	512	552	569	581
Tons avoided through recycling PV per ton 18 SF Org Ban Year	288	425 2017	2018	552 2019	2020	581
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits	2016 \$1,044,600	2017 \$1,533,082	2018 \$1,835,049	2019 \$1,972,062	2020 \$2,023,274	202 \$2,056,354
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost	2016 \$1,044,600 \$886,533	2017 \$1,533,082 \$1,301,099	\$1,835,049 \$1,557,373	2019 \$1,972,062 \$1,673,653	\$2,023,274 \$1,717,116	202 \$2,056,354 \$1,745,190
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits	2016 \$1,044,600 \$886,533 \$158,067	2017 \$1,533,082 \$1,301,099 \$231,983	\$1,835,049 \$1,557,373 \$277,676	\$1,972,062 \$1,673,653 \$298,409	\$2,023,274 \$1,717,116 \$306,158	202 \$2,056,354 \$1,745,190 \$311,164
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	2016 \$1,044,600 \$886,533	2017 \$1,533,082 \$1,301,099	\$1,835,049 \$1,557,373	2019 \$1,972,062 \$1,673,653	\$2,023,274 \$1,717,116	202 \$2,056,354 \$1,745,190 \$311,164
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	2016 \$1,044,600 \$886,533 \$158,067	2017 \$1,533,082 \$1,301,099 \$231,983	\$1,835,049 \$1,557,373 \$277,676	\$1,972,062 \$1,673,653 \$298,409	\$2,023,274 \$1,717,116 \$306,158	202 \$2,056,354 \$1,745,190 \$311,164
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce	2016 \$1,044,600 \$886,533 \$158,067 7,545	2017 \$1,533,082 \$1,301,099 \$231,983 11,073	2018 \$1,835,049 \$1,557,373 \$277,676 13,254	2019 \$1,972,062 \$1,673,653 \$298,409 14,244	\$2020 \$2,023,274 \$1,717,116 \$306,158 14,614	\$202 \$2,056,354 \$1,745,190 \$311,164 14,853
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year	2016 \$1,044,600 \$886,533 \$158,067 7,545	2017 \$1,533,082 \$1,301,099 \$231,983 11,073	2018 \$1,835,049 \$1,557,373 \$277,676 13,254	2019 \$1,972,062 \$1,673,653 \$298,409 14,244	2020 \$2,023,274 \$1,717,116 \$306,158 14,614	\$202 \$2,056,354 \$1,745,190 \$311,164 14,853
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668	\$202: \$2,056,354 \$1,745,190 \$311,164 14,853 202: \$1,155,518
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519	202 \$2,056,354 \$1,745,190 \$311,164 14,853 202 \$1,155,518 \$399,110
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149	\$2,056,354 \$1,745,190 \$311,164 14,853 202 \$1,155,518 \$399,110 \$756,407
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519	\$2,056,354 \$1,745,190 \$311,164 14,853 202 \$1,155,518 \$399,110 \$756,407
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149	\$2,056,354 \$1,745,190 \$311,164 14,853 202 \$1,155,518 \$399,110 \$756,407
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Pv per ton	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149	\$2,056,354 \$1,745,190 \$311,164 14,853 202 \$1,155,518 \$399,110 \$756,407
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 20 Reuse Bag Res	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149	\$2,056,354 \$1,745,190 \$311,164 14,853 \$1,155,518 \$399,110 \$756,407 8,346
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits One avoided through recycling PV per ton 20 Reuse Bag Res Year	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101 7,272	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090 7,911	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826 8,141	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661 8,219	2020 \$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149 8,253	202 \$2,056,354 \$1,745,190 \$311,164 14,853 202 \$1,155,518 \$399,110 \$756,407 8,346
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 20 Reuse Bag Res Year Program Benefits	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101 7,272	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090 7,911 2017 \$9,292	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826 8,141 2018 \$11,797	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661 8,219 \$13,166	\$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149 8,253	\$202: \$2,056,354 \$1,745,190 \$311,164 14,853 202: \$1,155,518 \$399,110 \$756,407 8,346
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 20 Reuse Bag Res Year Program Benefits Program Benefits	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101 7,272 2016 \$5,948 \$25,000	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090 7,911 2017 \$9,292 \$25,000	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826 8,141 2018 \$11,797 \$25,000	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661 8,219 \$13,166 \$25,000	\$2020 \$2,023,274 \$1,717,116 \$306,158 14,614 \$1,142,668 \$395,519 \$747,149 8,253 \$13,777 \$25,000	\$202: \$2,056,354 \$1,745,190 \$311,164 14,853 \$1,155,518 \$399,110 \$756,407 8,346 \$14,149 \$25,000
Tons avoided through recycling PV per ton 18 SF Org Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 19 Incr Res Ban Enforce Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 20 Reuse Bag Res Year Program Benefits	2016 \$1,044,600 \$886,533 \$158,067 7,545 2016 \$1,006,795 \$356,693 \$650,101 7,272	2017 \$1,533,082 \$1,301,099 \$231,983 11,073 2017 \$1,095,267 \$382,177 \$713,090 7,911 2017 \$9,292	2018 \$1,835,049 \$1,557,373 \$277,676 13,254 2018 \$1,127,063 \$391,237 \$735,826 8,141 2018 \$11,797	2019 \$1,972,062 \$1,673,653 \$298,409 14,244 2019 \$1,137,923 \$394,262 \$743,661 8,219 \$13,166	\$2,023,274 \$1,717,116 \$306,158 14,614 2020 \$1,142,668 \$395,519 \$747,149 8,253	\$180,427 581 2023 \$2,056,354 \$1,745,190 \$311,164 14,853 2023 \$1,155,518 \$399,110 \$756,407 8,346 2021 \$14,149 \$25,000 (\$10,851 102

\$13,333,450 \$10,114,484 \$3,218,966 161,282	\$13,734,561 \$10,498,902 \$3,235,658 165,350	\$14,175,003 \$10,880,129 \$3,294,874 169,287	\$14,596,232 \$11,278,861 \$3,317,371 172,926	\$14,911,114 \$11,490,449 \$3,420,666 175,743	\$15,127,302 \$11,767,100 \$3,360,203 177,821
\$10,114,484 \$3,218,966 161,282	\$10,498,902 \$3,235,658 165,350	\$10,880,129 \$3,294,874	\$11,278,861 \$3,317,371	\$11,490,449 \$3,420,666	\$11,767,100 \$3,360,203
\$3,218,966 161,282 2022	\$3,235,658 165,350	\$3,294,874	\$3,317,371	\$3,420,666	\$3,360,203
161,282	165,350				
2022		109,287	172,320	173,743	177,021
Ac	2023	2024	2025	2026	2027
\$319,996	\$339,693	\$349,856	\$356,078	\$360,719	\$364,793
\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
\$294,996	\$314,693	\$324,856	\$331,078	\$335,719	\$339,793
2,311	2,454	2,527	2,572	2,605	2,635
2022	2023	2024	2025	2026	202
		-			\$788,021
					\$395,038
					\$392,983
					5,692
2,230	2,324	2,121		2,330	3,032
		-			202
					\$721,648
					\$362,439
					\$359,209
4,712	4,844	4,946	5,038	5,125	5,212
2022	2023	2024	2025	2026	2027
					\$1,195,242
					\$1,343,601
					(\$148,359
1,049	2,376	4,442	6,537	7,929	8,633
,	,	•	•	,	,
					2027
. ,	, .			. ,	\$85,838
***	***			** *	(\$100,000)
					\$185,838
589	595	602	608	614	620
2022	2023	2024	2025	2026	2027
\$2,075,009	\$2,089,326	\$2,101,983	\$2,114,270	\$2,126,024	\$2,137,634
\$1,761,023	\$1,793,173	\$1,783,915	\$1,794,343	\$1,804,318	\$1,814,171
\$313,987	\$296,153	\$318,068	\$319,928	\$321,706	\$323,463
14,987	15,091	15,182	15,271	15,356	15,440
2022	2022	2026	2025	2026	2021
					\$1 220 FF2
					\$1,230,553
		. ,			\$420,004
					\$810,549 8,888
0,432	0,521	0,011	6,703	0,/95	8,888
					200
2022	2023	2024	2025	2026	202
2022 \$14,369	2023 \$14,538	2024 \$14,690	2025 \$14,837	2026 \$14,980	
					\$15,123 \$25,000
\$14,369	\$14,538	\$14,690	\$14,837	\$14,980	\$15,123
	2022 \$725,135 \$364,152 \$360,983 5,238 2022 \$652,310 \$328,384 \$323,927 4,712 2022 \$145,244 \$172,381 (\$27,138) 1,049 2022 \$81,507 (\$100,000) \$181,507 589 2022 \$2,075,009 \$1,761,023 \$313,987	2022 2023 \$7725,135 \$737,150 \$364,152 \$370,053 \$360,983 \$367,097 5,238 5,324 2022 2023 \$652,310 \$670,669 \$328,384 \$337,401 \$323,927 \$333,269 4,712 4,844 2022 2023 \$145,244 \$328,919 \$172,381 \$377,643 (\$27,138) (\$48,724) 1,049 2,376 2022 2023 \$81,507 \$82,426 (\$100,000) \$181,507 \$182,426 \$95 595 2022 2023 \$2,075,009 \$2,089,326 \$1,761,023 \$1,793,173 \$313,987 \$296,153 14,987 15,091 2022 2023 \$1,167,440 \$1,179,721 \$402,431 \$405,853 \$765,009 \$773,868	2022 2023 2024 \$725,135 \$737,150 \$749,515 \$364,152 \$370,053 \$376,126 \$360,983 \$367,097 \$373,389 5,238 5,324 5,414 2022 2023 2024 \$652,310 \$670,669 \$684,788 \$328,384 \$337,401 \$384,335 \$323,927 \$333,269 \$300,453 4,712 4,844 4,946 2022 2023 2024 \$145,244 \$328,919 \$614,978 \$172,381 \$377,643 \$697,123 \$27,138 \$48,724 \$82,145 1,049 2,376 4,442 2022 2023 2024 \$81,507 \$82,426 \$83,289 \$589 595 602 2022 2023 2024 \$2,075,009 \$2,089,326 \$2,101,983 \$1,761,023 \$1,793,173 \$1,783,915 \$313,987 \$296,153 \$318,068 <	2022 2023 2024 2025 \$725,135 \$737,150 \$749,515 \$762,220 \$364,152 \$370,053 \$376,126 \$382,366 \$360,983 \$367,097 \$373,389 \$379,854 5,238 5,324 5,414 5,505 2022 2023 2024 2025 \$652,310 \$670,669 \$684,788 \$697,475 \$328,384 \$337,401 \$384,335 \$350,566 \$323,927 \$333,269 \$300,453 \$346,909 4,712 4,844 4,946 5,038 2022 2023 2024 2025 \$145,244 \$328,919 \$614,978 \$905,070 \$172,381 \$377,643 \$697,123 \$1,020,801 (\$27,138) (\$48,724) (\$82,145) (\$115,731) 1,049 2,376 4,442 6,537 2022 2023 2024 2025 \$81,507 \$82,426 \$83,289 \$84,147 \$10,0000 (\$1	2022 2023 2024 2025 2026 \$725,135 \$737,150 \$749,515 \$762,220 \$775,030 \$364,152 \$370,053 \$376,126 \$382,366 \$388,657 \$360,983 \$367,097 \$373,389 \$379,854 \$386,372 5,238 5,324 5,414 5,505 5,598 2022 2023 2024 2025 2026 \$652,310 \$670,669 \$684,788 \$697,475 \$709,602 \$328,384 \$337,401 \$384,335 \$350,566 \$356,522 \$323,927 \$333,269 \$300,453 \$346,909 \$353,079 4,712 4,844 4,946 5,038 5,125 \$145,244 \$328,919 \$614,978 \$905,070 \$1,097,753 \$172,381 \$377,643 \$697,123 \$1,020,801 \$1,235,419 \$27,138 \$548,724 \$(82,145) \$(\$115,731) \$(\$137,666) \$81,507 \$82,426 \$83,289 \$84,147 \$84,991

Year		2028	2029	203
P	Program Benefits	\$15,292,710	\$15,437,208	\$15,577,702
	Program Cost	\$11,785,818	\$11,899,828	\$11,979,021
	Net Benefits	\$3,506,892	\$3,537,380	\$3,598,681
Tons avoided thro	ough recycling	179,523	181,068	182,586
1/13/2012				
13 Taratila 84 anda	- 4 D			
12 Textile Marke	et Dev	2028	2029	202
/ear	rogram Donofits			203
r	Program Benefits	\$368,789	\$372,828	\$377,085
	Program Cost Net Benefits	\$25,000 \$343.789	\$25,000	\$25,000
Tone avoided thre		\$343,789 2,664	\$347,828	\$352,085 2,72 4
Tons avoided thro		2,004	2,693	2,724
	PV per ton			
13 MF Univer Or	g Serv			
/ear		2028	2029	203
P	Program Benefits	\$801,443	\$815,257	\$829,741
	Program Cost	\$401,630	\$408,415	\$415,529
	Net Benefits	\$399,813	\$406,842	\$414,212
Tons avoided thro	ough recycling	5,789	5,888	5,993
	PV per ton			
14 ME C D				
14 MF Org Ban		2020	2020	303
/ear	rogram Danafit	2028	2029	203
٢	Program Benefits	\$733,996 \$368,504	\$746,669	\$759,942
	Program Cost		\$374,728	\$381,247
Fama avaidad Abri	Net Benefits	\$365,492	\$371,941	\$378,695
Tons avoided thro		5,302	5,393	5,489
	PV per ton			
15 Pet Waste & I	Diapers			
/ear		2028	2029	203
P	Program Benefits	\$1,240,905	\$1,264,347	\$1,279,678
	Program Cost	\$1,393,871	\$1,439,312	\$1,435,686
	Net Benefits	(\$152,965)	(\$174,965)	(\$156,007
Tons avoided thro	ough rocusting			
	ough recycling	8,963	9,132	9,243
	PV per ton	8,963	9,132	9,243
	PV per ton	8,963	9,132	9,243
16 Plast Bag Bar	PV per ton			Í
16 Plast Bag Ban Year	PV per ton	2028	2029	203
16 Plast Bag Ban Year	PV per ton n Res Program Benefits	2028 \$86,718	2029 \$87,625	203 \$88,593
16 Plast Bag Ban Year	PV per ton n Res Program Benefits Program Cost	\$86,718 (\$100,000)	\$87,625 (\$100,000)	203 \$88,593 (\$100,000
16 Plast Bag Ban Year F	PV per ton n Res Program Benefits Program Cost Net Benefits	\$86,718 (\$100,000) \$186,718	\$87,625 (\$100,000) \$187,625	203 \$88,591 (\$100,000 \$188,592
16 Plast Bag Ban Year F	PV per ton n Res Program Benefits Program Cost Net Benefits ough recycling	\$86,718 (\$100,000)	\$87,625 (\$100,000)	203 \$88,591 (\$100,000 \$188,592
1 <i>6 Plast Bag Ban</i> Year F	PV per ton n Res Program Benefits Program Cost Net Benefits	\$86,718 (\$100,000) \$186,718	\$87,625 (\$100,000) \$187,625	203 \$88,591 (\$100,000 \$188,592
1.6 Plast Bag Bar Year F	PV per ton n Res Program Benefits Program Cost Net Benefits ough recycling	\$86,718 (\$100,000) \$186,718	\$87,625 (\$100,000) \$187,625	203 \$88,591 (\$100,000 \$188,592
16 Plast Bag Bar Year F Fons avoided thro 18 SF Org Ban	PV per ton n Res Program Benefits Program Cost Net Benefits ough recycling	\$86,718 (\$100,000) \$186,718	\$87,625 (\$100,000) \$187,625	203 \$88,593 (\$100,000 \$188,593 640
1.6 Plast Bag Bar Year Fons avoided thro 1.8 SF Org Ban Year	PV per ton n Res Program Benefits Program Cost Net Benefits ough recycling	\$86,718 (\$100,000) \$186,718 626	\$87,625 (\$100,000) \$187,625	203 \$88,591 (\$100,000 \$188,591 640
16 Plast Bag Bar Year Fons avoided thro 18 SF Org Ban Year	PV per ton Program Benefits Program Cost Net Benefits ough recycling PV per ton	2028 \$86,718 (\$100,000) \$186,718 626	\$87,625 (\$100,000) \$187,625 633	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368
1.6 Plast Bag Bar Year Fons avoided thro 1.8 SF Org Ban Year	Program Benefits Program Cost Net Benefits ough recycling PV per ton Program Benefits	2028 \$86,718 (\$100,000) \$186,718 626	\$87,625 (\$100,000) \$187,625 633	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044
16 Plast Bag Ban Year F Fons avoided thro 18 SF Org Ban Year F	Program Benefits Program Cost Net Benefits ough recycling PV per ton Program Benefits Program Cost Net Benefits	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324
16 Plast Bag Bar Year Fons avoided thro 18 SF Org Ban Year	Program Benefits Program Cost Net Benefits ough recycling PV per ton Program Benefits Program Cost Net Benefits	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324
fear Fons avoided thro 18 SF Org Ban Year Fons avoided thro	PV per ton Program Benefits Program Cost Net Benefits Dugh recycling PV per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Dugh recycling PV per ton	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324
fear Fons avoided thro 18 SF Org Ban Year Fons avoided thro 19 Incr Res Ban 1	PV per ton Program Benefits Program Cost Net Benefits Dugh recycling PV per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Dugh recycling PV per ton	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528	2029 \$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619	203 \$88,592 (\$100,000 \$188,592 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720
fear Fons avoided thro 18 SF Org Ban Year Fons avoided thro 19 Incr Res Ban B	PV per ton Program Benefits Program Cost Net Benefits Dugh recycling PV per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Dugh recycling PV per ton Enforce	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528	2029 \$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720
fear Fons avoided thro 18 SF Org Ban Year Fons avoided thro 19 Incr Res Ban B	Program Benefits Program Benefits Program Cost Net Benefits Description Program Benefits Program Cost Net Benefits Program Cost Net Benefits Description Program Cost Net Benefits Description Program Benefits Program Benefits	\$2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720
lear Fons avoided thro (ear Fons avoided thro (ear Fons avoided thro (ear Fons avoided thro 19 Incr Res Ban B	PV per ton Program Benefits Program Cost Net Benefits Program Cost Net Program Cost Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost	\$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits PV per ton Enforce Program Benefits Program Cost Net Benefits Program Cost Net Benefits	\$86,718 \$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131 \$828,174
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits	\$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131 \$828,174
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits PV per ton Enforce Program Benefits Program Cost Net Benefits Program Cost Net Benefits	\$86,718 \$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131 \$828,174
fear Fons avoided thro 18 SF Org Ban Fear Fons avoided thro 19 Incr Res Ban B Fear Fons avoided thro Fons avoided thro Fons avoided thro Fons avoided thro	PV per ton Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost Net Benefits Pv per ton	\$86,718 \$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124	203 \$88,592 (\$100,000 \$188,592 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,132 \$828,174
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost Net Benefits Pv per ton	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181 8,984	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124 9,084	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131 \$828,174 9,190
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost Net Benefits Pv per ton Enforce	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181 8,984	2029 \$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124 9,084	203 \$88,592 (\$100,000 \$188,592 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,132 \$828,174 9,190
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Pv per ton Program Benefits Program Benefits	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181 8,984 2028 \$15,271	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124 9,084	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131 \$828,174 9,190
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits Pv per ton Enforce Program Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Cost	\$86,718 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181 8,984 2028 \$15,271 \$25,000	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124 9,084 2029 \$15,425 \$25,000	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 \$444,131 \$828,174 9,190 203 \$15,588 \$25,000
Tons avoided through the second secon	PV per ton Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits	2028 \$86,718 (\$100,000) \$186,718 626 2028 \$2,149,829 \$1,824,521 \$325,308 15,528 2028 \$1,243,900 \$423,718 \$820,181 8,984 2028 \$15,271	\$87,625 (\$100,000) \$187,625 633 2029 \$2,162,505 \$1,835,278 \$327,226 15,619 2029 \$1,257,678 \$427,554 \$830,124 9,084	203 \$88,591 (\$100,000 \$188,591 640 203 \$2,176,368 \$1,847,044 \$329,324 15,720 203 \$1,272,305 \$444,131 \$828,174 9,190 203 \$15,588 \$25,000 (\$9,412 113

22 ABC Ban	D	2012	2011		20.5		
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$2,308,287	\$0	\$0	\$0	\$88,349	\$166,598	\$246,094
Program Cost	\$831,746	\$0	\$0	\$10,000	\$48,025	\$72,846	\$98,063
Net Benefits	\$1,476,541	\$0	\$0	(\$10,000)	\$40,324	\$93,751	\$148,031
Tons avoided through recycling	78,424	-	-	-	1,401	2,642	3,903
PV per ton	\$19						
·	•						
26 Ban Asphalt Shingles							
Year	Present Value	2010	2011	2012	2013	2014	2019
Program Benefits	\$230,189	\$0	\$0	\$0	\$32,575	\$34,977	\$31,684
Program Cost	\$201,298	\$0	\$0	\$0	\$26,142	\$27,333	\$25,701
Net Benefits	\$28,892	\$0	\$0	\$0	\$6,433	\$7,645	\$5,983
Tons avoided through recycling	9,218	_	_	-	646	693	628
PV per ton	\$3						
. v per ton	7-						
29 Floor Sort 50% C&D							
Year	Present Value	2010	2011	2012	2013	2014	2015
Program Benefits	\$6,355,579	\$0	\$0	\$0	\$111,795	\$248,965	\$452,080
Program Cost	\$13,152,521	\$0	\$0	\$100,000	\$332,516	\$590,815	\$973,290
Net Benefits	(\$6,796,942)	\$0	\$0	(\$100,000)	(\$220,721)	(\$341,849)	(\$521,210
		-	- -	(\$100,000)			
Tons avoided through recycling	279,558	-	•	•	2,216	4,935	8,961
PV per ton	(\$24)						
32 Ban Com Org							
Year Year	Present Value	2010	2011	2012	2013	2014	2015
	\$7,910,477	\$0	\$0	\$0	\$0	\$0	\$0
Program Benefits		•				•	
Program Cost	\$9,563,565	\$0	\$0	\$0	\$0	\$0	\$165,000
Net Benefits	(\$1,653,087)	\$0	\$0	\$0	\$0	\$0	(\$165,000
Tons avoided through recycling	307,598	-	-	-	-	-	-
PV per ton	(\$5)						
25 5 1 5 /0							
35 Foodware Rec/Comp							
Year	Present Value	2010	2011	2012	2013	2014	2015
Program Benefits	\$9,168,490	\$116,013	\$262,341	\$491,371	\$719,876	\$869,762	\$942,005
Program Cost	\$11,190,220	\$431,561	\$597,500	\$857,225	\$826,354	\$996,328	\$1,078,253
Net Benefits	(\$2,021,729)	(\$315,548)	(\$335,159)	(\$365,854)	(\$106,478)	(\$126,566)	(\$136,248)
Tons avoided through recycling	296,758	1,840	4,161	7,793	11,418	13,795	14,941
PV per ton	(\$7)						
•							
36 Carpet							
Year	Present Value	2010	2011	2012	2013	2014	2015
Program Benefits	\$726,189	\$0	\$0	\$5,845	\$14,937	\$34,218	\$64,362
							4
Program Cost	\$125,119	\$0	\$0	\$50,000	\$50,000	\$50,000	\$10,000
Program Cost Net Benefits	\$125,119 \$601,070	\$0 \$0					
Net Benefits	\$601,070		\$0 \$0 -	(\$44,155)	(\$35,063)	(\$15,782)	\$54,362
Net Benefits Tons avoided through recycling	\$601,070 24,962	\$0	\$0				\$54,362
Net Benefits	\$601,070	\$0	\$0	(\$44,155)	(\$35,063)	(\$15,782)	\$54,362
Net Benefits Tons avoided through recycling	\$601,070 24,962	\$0	\$0	(\$44,155)	(\$35,063)	(\$15,782)	\$54,362
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org	\$601,070 24,962	\$0	\$0	(\$44,155)	(\$35,063)	(\$15,782)	\$54,362 1,021
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org	\$601,070 24,962 \$24 Present Value	\$0 - 2010	\$0 - 2011	(\$44,155) 93 2012	(\$35,063) 237 2013	(\$15,782) 543 2014	\$54,362 1,021 2015
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits	\$601,070 24,962 \$24 Present Value \$277,278	\$0 - 2010 \$0	\$0 - 2011 \$0	(\$44,155) 93 2012 \$0	(\$35,063) 237 2013 \$58,981	(\$15,782) 543 2014 \$127,345	\$54,362 1,021 2015 \$231,411
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601	\$0 - 2010 \$0 \$0	\$0 - 2011 \$0 \$0	(\$44,155) 93 2012 \$0 \$95,000	(\$35,063) 237 2013 \$58,981 \$149,605	\$127,345 \$180,805	\$54,362 1,021 2015 \$231,411 \$296,324
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323)	\$0 - 2010 \$0 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 \$0	(\$44,155) 93 2012 \$0	(\$35,063) 237 2013 \$58,981 \$149,605 (\$90,624)	\$127,345 \$180,805 \$53,461	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625	\$0 - 2010 \$0 \$0	\$0 - 2011 \$0 \$0	(\$44,155) 93 2012 \$0 \$95,000	(\$35,063) 237 2013 \$58,981 \$149,605	\$127,345 \$180,805	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323)	\$0 - 2010 \$0 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 \$0	(\$44,155) 93 2012 \$0 \$95,000	(\$35,063) 237 2013 \$58,981 \$149,605 (\$90,624)	\$127,345 \$180,805 \$53,461	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32)	\$0 - 2010 \$0 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 \$0	(\$44,155) 93 2012 \$0 \$95,000	(\$35,063) 237 2013 \$58,981 \$149,605 (\$90,624)	\$127,345 \$180,805 \$53,461	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32)	\$0 - 2010 \$0 \$0 \$0 -	\$0 - - 2011 \$0 \$0 \$0 -	(\$44,155) 93 2012 \$0 \$95,000 (\$95,000)	2013 \$58,981 \$149,605 (\$90,624) 935	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913 3,670
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) Ce	\$0 - 2010 \$0 \$0 \$0 -	\$0 - - 2011 \$0 \$0 \$0 -	(\$44,155) 93 2012 \$0 \$95,000 (\$95,000) -	2013 \$58,981 \$149,605 (\$90,624) 935	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913) 3,670
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922	\$0 - 2010 \$0 \$0 \$0 \$0 -	\$0 - 2011 \$0 \$0 \$0 \$0 -	(\$44,155) 93 2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913) 3,670 2015 \$529,783
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133)	\$0 - 2010 \$0 \$0 \$0 \$0 - 2010 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 - 2011 \$0 \$62,500	\$44,155) 93 2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468	\$127,345 \$180,805 \$53,461 \$2014 \$284,447 \$27,044	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913) 3,670 2015 \$529,783 (\$9,144)
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056	\$0 - 2010 \$0 \$0 \$0 \$0 -	\$0 - 2011 \$0 \$0 \$0 \$0 -	2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649 (\$11,812)	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913) 3,670 2015 \$529,783 (\$9,144) \$538,927
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793	\$0 - 2010 \$0 \$0 \$0 \$0 - 2010 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 - 2011 \$0 \$62,500	\$44,155) 93 2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468	\$127,345 \$180,805 \$53,461 \$2014 \$284,447 \$27,044	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913) 3,670 2015 \$529,783 (\$9,144) \$538,927
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056	\$0 - 2010 \$0 \$0 \$0 \$0 - 2010 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 - 2011 \$0 \$62,500	2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649 (\$11,812)	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403	\$54,362 1,021 2015 \$231,411 \$296,324 (\$64,913) 3,670 2015 \$529,783 (\$9,144) \$538,927
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793	\$0 - 2010 \$0 \$0 \$0 \$0 - 2010 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 - 2011 \$0 \$62,500	2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649 (\$11,812)	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403	\$54,362 1,021 2019 \$231,411 \$296,324 (\$64,913 3,670 2019 \$529,783 (\$9,144 \$538,927
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793 \$30	\$0 - 2010 \$0 \$0 \$0 - 2010 \$0 \$0 \$0 -	\$0 - 2011 \$0 \$0 \$0 - 2011 \$0 \$62,500 (\$62,500)	\$44,155) 93 2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649 (\$11,812) 790	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169 1,993	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403 4,511	\$54,362 1,021 \$231,411 \$296,324 (\$64,913 3,670 2015 \$529,783 (\$9,144 \$538,927 8,403
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793 \$30 Present Value	\$0 - 2010 \$0 \$0 \$0 - 2010 \$0 \$0 \$0	\$0 - 2011 \$0 \$0 \$0 \$0 - 2011 \$0 \$62,500 (\$62,500) -	\$44,155) 93 2012 \$0 \$95,000 (\$95,000) - 2012 \$49,837 \$61,649 (\$11,812) 790	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169 1,993	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403 4,511	\$54,362 1,021 \$231,411 \$296,324 (\$64,913 3,670 2015 \$529,783 (\$9,144 \$538,927 8,403
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year Program Benefits	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793 \$30 Present Value \$2,568,181	\$0 - 2010 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 - 2011 \$0 \$0 \$0 \$0 - 2011 \$0 \$62,500 (\$62,500) -	\$44,155) 93 2012 \$0 \$95,000 \$95,000) - 2012 \$49,837 \$61,649 (\$11,812) 790 2012 \$0	(\$35,063) 237 2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169 1,993 2013 \$0	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403 4,511 2014 \$46,190	\$54,362 1,021 \$231,411 \$296,324 (\$64,913 3,670 \$529,783 (\$9,144 \$538,927 8,403
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year Program Benefits Program Cost	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793 \$30 Present Value \$2,568,181 \$58,214	\$0 - 2010 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 - 2010 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 - 2011 \$0 \$0 \$0 \$0 - 2011 \$0 \$62,500 (\$62,500) - 2011 \$0 \$0	\$012 \$0\$95,000 \$95,000 \$95,000 \$95,000 \$95,000 \$10,000 \$10,000 \$11,812 \$11,812 \$10,000	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169 1,993 2013 \$0 \$0	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403 4,511 2014 \$46,190 \$133,187	\$54,362 1,021 \$231,411 \$296,324 (\$64,913) 3,670 \$529,783 (\$9,144) \$538,927 8,403 \$104,365 \$74,606
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year Program Benefits	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793 \$30 Present Value \$2,568,181	\$0 - 2010 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 - 2011 \$0 \$0 \$0 \$0 - 2011 \$0 \$62,500 (\$62,500) -	\$44,155) 93 2012 \$0 \$95,000 \$95,000) - 2012 \$49,837 \$61,649 (\$11,812) 790 2012 \$0	(\$35,063) 237 2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169 1,993 2013 \$0	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403 4,511 2014 \$46,190	
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton 39 Extend Com Ban Year Program Benefits Program Cost	\$601,070 24,962 \$24 Present Value \$277,278 \$490,601 (\$213,323) 6,625 (\$32) ce Present Value \$7,670,922 (\$429,133) \$8,100,056 268,793 \$30 Present Value \$2,568,181 \$58,214	\$0 - 2010 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 - 2010 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 - 2011 \$0 \$0 \$0 \$0 - 2011 \$0 \$62,500 (\$62,500) - 2011 \$0 \$0	\$012 \$0\$95,000 \$95,000 \$95,000 \$95,000 \$95,000 \$10,000 \$10,000 \$11,812 \$11,812 \$10,000	2013 \$58,981 \$149,605 (\$90,624) 935 2013 \$125,637 \$50,468 \$75,169 1,993 2013 \$0 \$0	\$15,782) 543 2014 \$127,345 \$180,805 (\$53,461) 2,020 2014 \$284,447 \$27,044 \$257,403 4,511 2014 \$46,190 \$133,187	\$54,362 1,021 \$231,411 \$296,324 (\$64,913) 3,670 \$529,783 (\$9,144) \$538,927 8,403 \$104,365 \$74,606

22 ABC Ban						
Year	2016	2017	2018	2019	2020	2021
Program Benefits	\$299,355	\$325,260	\$269,741	\$276,059	\$280,392	\$283,973
Program Cost	\$114,958	\$123,175	\$90,564	\$92,568	\$93,943	\$95,079
Net Benefits	\$184,397	\$202,084	\$179,177	\$183,490	\$186,449	\$188,894
Tons avoided through recycling	4,748	5,159	4,278	4,378	4,447	4,504
PV per ton						
26 Ban Asphalt Shingles						
Year	2016	2017	2018	2019	2020	2021
Program Benefits	\$27,368	\$24,501	\$23,372	\$23,052	\$23,084	\$23,256
Program Cost	\$23,562	\$22,141	\$21,582	\$21.423	\$21,439	\$21,524
Net Benefits	\$3,806	\$2,360	\$1,790	\$1.629	\$1,645	\$1.732
Tons avoided through recycling	542	486	463	457	458	461
PV per ton						
29 Floor Sort 50% C&D						
Year	2016	2017	2018	2019	2020	2021
Program Benefits	\$641,490	\$760,225	\$823,276	\$854,456	\$872,429	\$885,288
Program Cost	\$1,329,959	\$1,553,544	\$1,672,272	\$1,730,986	\$1,764,831	\$1,789,043
Net Benefits	(\$688,469)	(\$793,319)	(\$848,996)	(\$876,530)	(\$892,401)	(\$903,755
Tons avoided through recycling	12,715	15,069	16,319	16,937	17,293	17,548
PV per ton						
32 Ban Com Org						
Year	2016	2017	2018	2019	2020	2021
Program Benefits	\$77,806	\$195,007	\$440,365	\$820,744	\$1,209,317	\$1,465,540
Program Cost	\$267,864	\$285,214	\$560,287	\$989,836	\$1,428,636	\$1,717,980
Net Benefits	(\$190,057)	(\$90,207)	(\$119,923)	(\$169,091)	(\$219,319)	(\$252,439)
Tons avoided through recycling	1,234	3,093	6,984	13,017	19,180	23,244
PV per ton						
35 Foodware Rec/Comp			2012		2000	
Year	2016	2017	2018	2019	2020	2021
Program Benefits	\$972,696	\$985,344	\$992,220	\$997,320	\$1,006,719	\$1,012,267
Program Cost	\$1,113,057	\$1,127,400	\$1,135,198	\$1,140,982	\$1,151,640	\$1,157,932
Net Benefits	(\$140,361)	(\$142,056)	(\$142,978)	(\$143,661)	(\$144,921)	(\$145,665
Tons avoided through recycling	15,427	15,628	15,737	15,818	15,967	16,055
PV per ton						
36 Carpet						
Year	2016	2017	2018	2019	2020	2021
Program Benefits	\$95,171	\$115,378	\$85,477	\$89,190	\$91,256	\$92,674
	\$10,000	\$10,000	\$0	\$0	\$0	\$0
Program Cost	710,000	710,000	γU	ΨŪ	γU	γU
Program Cost Net Benefits	\$85,171	\$105,378	\$85,477	\$89,190	\$91,256	\$92,674
•						\$92,674
Net Benefits	\$85,171	\$105,378	\$85,477	\$89,190	\$91,256	\$92,674
Net Benefits Tons avoided through recycling PV per ton	\$85,171	\$105,378	\$85,477	\$89,190	\$91,256	
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org	\$85,171 1,509	\$105,378 1,830	\$85,477 1,356	\$89,190 1,415	\$91,256 1,447	\$92,674 1,470
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year	\$85,171 1,509 2016	\$105,378 1,830	\$85,477 1,356 2018	\$89,190 1,415	\$91,256 1,447 2020	\$92,674 1,470 202 1
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits	\$85,171 1,509 2016 \$0	\$105,378 1,830 2017 \$0	\$85,477 1,356 2018 \$0	\$89,190 1,415 2019 \$0	\$91,256 1,447 2020 \$0	\$92,674 1,470 2021 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost	\$85,171 1,509 2016 \$0 \$0	\$105,378 1,830 2017 \$0 \$0	\$85,477 1,356 2018 \$0 \$0	\$89,190 1,415 2019 \$0 \$0	\$91,256 1,447 2020 \$0 \$0	\$92,674 1,470 2021 \$0 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits	\$85,171 1,509 2016 \$0	\$105,378 1,830 2017 \$0	\$85,477 1,356 2018 \$0	\$89,190 1,415 2019 \$0	\$91,256 1,447 2020 \$0	\$92,674 1,470 202 1 \$0 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	\$85,171 1,509 2016 \$0 \$0	\$105,378 1,830 2017 \$0 \$0	\$85,477 1,356 2018 \$0 \$0	\$89,190 1,415 2019 \$0 \$0	\$91,256 1,447 2020 \$0 \$0	\$92,674 1,470 2023 \$0 \$0 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits	\$85,171 1,509 2016 \$0 \$0	\$105,378 1,830 2017 \$0 \$0	\$85,477 1,356 2018 \$0 \$0	\$89,190 1,415 2019 \$0 \$0	\$91,256 1,447 2020 \$0 \$0	\$92,674 1,470 2023 \$0 \$0 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	\$85,171 1,509 2016 \$0 \$0	\$105,378 1,830 2017 \$0 \$0	\$85,477 1,356 2018 \$0 \$0	\$89,190 1,415 2019 \$0 \$0	\$91,256 1,447 2020 \$0 \$0	\$92,674 1,470 2023 \$0 \$0 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	\$85,171 1,509 2016 \$0 \$0	\$105,378 1,830 2017 \$0 \$0	\$85,477 1,356 2018 \$0 \$0	\$89,190 1,415 2019 \$0 \$0 \$0 -	\$91,256 1,447 2020 \$0 \$0	\$92,674 1,470 2021 \$0 \$0 \$0
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor	\$85,171 1,509 2016 \$0 \$0 \$0 -	\$105,378 1,830 2017 \$0 \$0 \$0 - 2017 \$936,894	\$85,477 1,356 2018 \$0 \$0 \$0	\$89,190 1,415 2019 \$0 \$0 \$0	\$91,256 1,447 2020 \$0 \$0 \$0	\$92,674 1,470 2021 \$0 \$0 \$0 -
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year	\$85,171 1,509 2016 \$0 \$0 \$0 -	\$105,378 1,830 2017 \$0 \$0 \$0 -	\$85,477 1,356 2018 \$0 \$0 \$0 \$- 2018 \$1,016,419 (\$80,924)	\$89,190 1,415 2019 \$0 \$0 \$0 -	\$91,256 1,447 2020 \$0 \$0 \$0 -	\$92,674 1,470 202: \$0 \$0 \$0 - 202: \$1,081,746 (\$90,560
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits	\$85,171 1,509 2016 \$0 \$0 \$0 -	\$105,378 1,830 2017 \$0 \$0 \$0 - 2017 \$936,894	\$85,477 1,356 2018 \$0 \$0 \$0 - 2018 \$1,016,419	\$89,190 1,415 2019 \$0 \$0 \$0 - 2019 \$1,052,028	\$91,256 1,447 2020 \$0 \$0 \$0 - 2020 \$1,071,324	\$92,674 1,470 202: \$0 \$0 \$0 - 202: \$1,081,746 (\$90,560
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Tons avoided through recycling	\$85,171 1,509 2016 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488)	\$105,378 1,830 2017 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194)	\$85,477 1,356 2018 \$0 \$0 \$0 \$- 2018 \$1,016,419 (\$80,924)	\$89,190 1,415 2019 \$0 \$0 \$0 - 2019 \$1,052,028 (\$86,176)	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022)	\$92,674 1,470 202: \$0 \$0 \$0 \$0 - 202: \$1,081,746 (\$90,560 \$1,172,306
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits	\$85,171 1,509 2016 \$0 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488) \$821,669	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194) \$1,006,088	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 2019 \$1,052,028 (\$86,176) \$1,138,204	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346	\$92,674 1,470 202: \$0 \$0 \$0 \$0 - 202: \$1,081,746 (\$90,560 \$1,172,306
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	\$85,171 1,509 2016 \$0 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488) \$821,669	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194) \$1,006,088	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 2019 \$1,052,028 (\$86,176) \$1,138,204	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346	\$92,674 1,470 202: \$0 \$0 \$0 \$0 - 202: \$1,081,746 (\$90,560 \$1,172,306
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban	\$85,171 1,509 2016 \$0 \$0 \$0 \$- 2016 \$776,181 (\$45,488) \$821,669 12,311	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194) \$1,006,088 14,860	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343 16,121	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 - 2019 \$1,052,028 (\$86,176) \$1,138,204 16,686	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346 16,992	\$92,674 1,470 2021 \$0 \$0 \$0 \$0 \$0 - \$1,081,746 (\$90,560 \$1,172,306 17,157
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Pv per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year	\$85,171 1,509 2016 \$0 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488) \$821,669 12,311	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194) \$1,006,088 14,860	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343 16,121	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 \$- 2019 \$1,052,028 (\$86,176) \$1,138,204 16,686	\$91,256 1,447 2020 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346 16,992	\$92,674 1,470 2021 \$0 \$0 \$0 \$0 \$0 \$1,081,746 (\$90,560 \$1,172,306 17,157
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year Program Benefits	\$85,171 1,509 2016 \$0 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488) \$821,669 12,311	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194) \$1,006,088 14,860 2017 \$285,008	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343 16,121 2018 \$344,648	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 \$0 \$- 2019 \$1,052,028 (\$86,176) \$1,138,204 16,686	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346 16,992 2020 \$389,036	\$92,674 1,470 2021 \$0 \$0 \$0 \$0 \$0 - 2021 \$1,081,746 (\$90,560) \$1,172,306 17,157 2021 \$396,205
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year Program Benefits Program Benefits Program Cost	\$85,171 1,509 2016 \$0 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488) \$821,669 12,311 2016 \$194,471 \$11,315	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 \$0 2017 \$936,894 (\$69,194) \$1,006,088 14,860 2017 \$285,008 (\$2,039)	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343 16,121 2018 \$344,648 (\$10,836)	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 \$0 \$- 2019 \$1,052,028 (\$86,176) \$1,138,204 16,686 2019 \$374,420 (\$15,228)	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346 16,992 2020 \$389,036 (\$17,384)	\$92,674 1,470 2021 \$0 \$0 \$0 \$0 \$0 \$1,081,746 (\$90,560) \$1,172,306 17,157 2021 \$396,205 (\$18,441)
Net Benefits Tons avoided through recycling PV per ton 37 Enhanc Com Org Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 38 Enhance Com Paper Ban Enfor Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 39 Extend Com Ban Year Program Benefits	\$85,171 1,509 2016 \$0 \$0 \$0 \$0 - 2016 \$776,181 (\$45,488) \$821,669 12,311	\$105,378 1,830 2017 \$0 \$0 \$0 \$0 - 2017 \$936,894 (\$69,194) \$1,006,088 14,860 2017 \$285,008	\$85,477 1,356 2018 \$0 \$0 \$0 \$0 - 2018 \$1,016,419 (\$80,924) \$1,097,343 16,121 2018 \$344,648	\$89,190 1,415 2019 \$0 \$0 \$0 \$0 \$0 \$- 2019 \$1,052,028 (\$86,176) \$1,138,204 16,686	\$91,256 1,447 2020 \$0 \$0 \$0 \$0 - 2020 \$1,071,324 (\$89,022) \$1,160,346 16,992 2020 \$389,036	\$92,674 1,470 2021 \$0 \$0 \$0 \$0 \$0 - 2021 \$1,081,746 (\$90,560) \$1,172,306 17,157 2021 \$396,205

22 ABC Ban Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$287,489	\$290,917	\$294,312	\$297,712	\$301,100	\$304,462
Program Cost	\$96,194	\$97,281	\$98,358	\$99,437	\$100,511	\$101,578
Net Benefits	\$191,295	\$193,636	\$195,953	\$198,275	\$200,588	\$202,884
Tons avoided through recycling	4,560	4,614	4,668	4,722	4,776	4,829
PV per ton	,,200	.,021	1,000	.,. ==	1,770	.,625
26 Ban Asphalt Shingles						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$23,498	\$23,761	\$24,032	\$24,307	\$24,583	\$24,857
Program Cost	\$21,644	\$21,774	\$21,909	\$22,045	\$22,182	\$22,318
Net Benefits	\$1,854	\$1,986	\$2,123	\$2,262	\$2,401	\$2,539
Tons avoided through recycling	466	471	476	482	487	493
PV per ton						
29 Floor Sort 50% C&D						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$896,889	\$907,823	\$918,504	\$929,149	\$939,735	\$950,233
Program Cost	\$1,910,889	\$1,831,478	\$1,851,591	\$1,871,637	\$1,891,570	\$1,911,339
Net Benefits	(\$1,014,000)	(\$923,655)	(\$933,087)	(\$942,488)	(\$951,835)	(\$961,106)
Tons avoided through recycling	17,778	17,995	18,206	18,417	18,627	18,835
PV per ton						
32 Ban Com Org						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$1,593,043	\$1,649,899	\$1,676,297	\$1,690,482	\$1,700,269	\$1,707,975
Program Cost	\$1,861,964	\$1,926,169	\$1,955,979	\$2,046,998	\$1,983,050	\$1,991,753
Net Benefits	(\$268,921)	(\$276,270)	(\$279,682)	(\$356,516)	(\$282,781)	(\$283,777)
Tons avoided through recycling	25,266	26,168	26,587	26,812	26,967	27,089
PV per ton						
35 Foodware Rec/Comp						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$1,017,439	\$1,022,319	\$1,027,274	\$1,032,327	\$1,037,579	\$1,042,936
Program Cost	\$1,163,796	\$1,169,331	\$1,174,950	\$1,180,681	\$1,186,636	\$1,192,711
Net Benefits	(\$146,358)	(\$147,012)	(\$147,676)	(\$148,353)	(\$149,057)	(\$149,775)
Tons avoided through recycling	16,137	16,214	16,293	16,373	16,456	16,541
PV per ton						
36 Carpet	2000	2000	2024	2025	2025	200
Year Danasita	2022	2023	2024	2025	2026	2027
Program Benefits	\$93,916 \$0	\$95,071 \$0	\$96,194 \$0	\$97,310 \$0	\$98,419 \$0	\$99,519
Program Cost Net Benefits	\$93,916	\$95,071	\$96,194	\$97,310	\$98,419	\$0 \$99,519
Tons avoided through recycling	1,490	1,508	1,526	397,310 1,543	1,561	1,578
PV per ton	1,430	1,300	1,320	1,343	1,301	1,376
•						
37 Enhanc Com Org Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$0	\$0	\$0	\$0	\$0	\$0
Program Cost	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0
Net Benefits	\$0	\$0	\$0	\$0	\$0	\$0
Tons avoided through recycling	-	-	-	-	-	-
PV per ton						
38 Enhance Com Paper Ban Enfor						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$1,089,206	\$1,095,400	\$1,101,313	\$1,107,282	\$1,113,391	\$1,119,540
Program Cost	(\$91,660)	(\$92,574)	(\$93,446)	(\$94,326)	(\$95,227)	(\$96,134)
Net Benefits	\$1,180,866	\$1,187,974	\$1,194,759	\$1,201,608	\$1,208,619	\$1,215,674
Tons avoided through recycling	17,275	17,374	17,467	17,562	17,659	17,756
PV per ton						
39 Extend Com Ban						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$400,488	\$403,665	\$406,522	\$409,316	\$412,132	\$414,974
Program Cost	(\$19,073)	(\$19,541)	\$20,037	(\$20,375)	(\$20,790)	(\$21,210)
Net Benefits	\$419,561	\$423,206	\$386,485	\$429,691	\$432,922	\$436,184
_	\$419,561 6,352	\$423,206 6,402	\$386,485 6,448	\$429,691 6,492	\$432,922 6,537	\$436,184 6,582

/ear	2028	2029	2030
Program Benefits	\$307,714	\$310,902	\$314,210
Program Cost	\$102,609	\$103,621	\$104,670
Net Benefits	\$205,104	\$207,281	\$209,540
ons avoided through recycling	4,880	4,931	4,984
PV per ton	4,000	4,551	4,504
i v per ton			
26 Ban Asphalt Shingles			
/ear	2028	2029	203
Program Benefits	\$25,122	\$25,382	\$25,652
Program Cost	\$22,449	\$22,578	\$22,712
Net Benefits	\$2,673	\$2,804	\$2,941
ons avoided through recycling	498	503	508
PV per ton			
9 Floor Sort 50% C&D	2020	2020	202
/ear	2028	2029	203
Program Benefits	\$960,384	\$970,334	\$980,660
Program Cost	\$1,930,454	\$1,949,189	\$1,968,634
Net Benefits	(\$970,070)	(\$978,856)	(\$987,974
ons avoided through recycling	19,036	19,234	19,438
PV per ton			
22 Ban Com Org			
'ear	2028	2029	203
Program Benefits	\$1,715,690	\$1,722,742	\$1,728,883
Program Cost	\$2,000,464	\$2,008,428	\$2,015,363
Net Benefits	(\$284,774)	(\$285,686)	(\$286,480
Tons avoided through recycling	27,212	27,323	27,421
PV per ton	•	•	
35 Foodware Rec/Comp			
/ear	2028	2029	203
Program Benefits	\$1,048,558	\$1,054,300	\$1,059,908
Program Cost	\$1,199,086	\$1,205,597	\$1,211,957
Net Benefits			
	(\$150,528)	(\$151,298)	
Tons avoided through recycling	(\$150,528) 16,631	(\$151,298) 16,722	(\$152,049 16,81 1
Fons avoided through recycling PV per ton			
Fons avoided through recycling PV per ton Graph Carpet			16,81
Fons avoided through recycling PV per ton Graph Carpet	16,631	16,722	16,812 203
ons avoided through recycling PV per ton GG Carpet	16,631	16,722	203 \$102,700
Program Benefits	2028 \$100,582 \$0	2029 \$101,624 \$0	203 \$102,706 \$6
Program Benefits Program Cost Net Benefits	2028 \$100,582	16,722 2029 \$101,624	203 \$102,706 \$102,706
Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582	2029 \$101,624 \$0 \$101,624	203 \$102,706 \$102,706
Program Benefits Program Cost Net Benefits Pros avoided through recycling PV per ton	2028 \$100,582 \$0 \$100,582	2029 \$101,624 \$0 \$101,624	203 \$102,706 \$102,706
Program Benefits Program Cost Net Benefits Pros avoided through recycling PV per ton Program Program Program Program Cost Net Benefits Program Pv per ton Pv per ton	2028 \$100,582 \$0 \$100,582 1,595	2029 \$101,624 \$0 \$101,624 1,612	203 \$102,700 \$102,700 1,629
Program Benefits Program Cost Net Benefits Prons avoided through recycling PV per ton Program Program Cost Net Benefits Prons avoided through recycling PV per ton	2028 \$100,582 \$0 \$100,582 1,595	2029 \$101,624 \$0 \$101,624 1,612	203 \$102,700 \$102,700 \$102,700 1,629
Program Benefits Tons avoided through recycling PV per ton R6 Carpet Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton R7 Enhanc Com Org Year Program Benefits	2028 \$100,582 \$0 \$100,582 1,595	2029 \$101,624 \$0 \$101,624 1,612	203 \$102,706 \$102,706 \$102,706 1,629
Program Benefits Fons avoided through recycling PV per ton R6 Carpet Program Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton R7 Enhanc Com Org Year Program Benefits Program Cost	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0	203 \$102,706 \$102,706 \$102,706 1,629
Program Benefits Por per ton Rear Program Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton Rear Program Benefits Fons avoided through recycling PV per ton Rear Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582 1,595	2029 \$101,624 \$0 \$101,624 1,612	203 \$102,706 \$102,706 \$102,706 1,629
Program Benefits Program Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton Fons avoided through recycling Program Benefits Program Cost Net Benefits Fons avoided through recycling	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0	203 \$102,706 \$102,706 \$102,706 1,629
Program Benefits Por per ton Rear Program Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton Rear Program Benefits Fons avoided through recycling PV per ton Rear Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0	203 \$102,706 \$102,706 \$102,706 1,629
Program Benefits Program Benefits Program Pv per ton Program Benefits Program Cost Net Benefits Fons avoided through recycling Pv per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0	203 \$102,706 \$102,706 \$102,706 1,629
Program Benefits Program Benefits Program Cost Net Benefits Program Program Program Program Program Program Program Program Benefits Program Cost Net Benefits Program Pro	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0	203 \$102,706 \$102,706 1,629 203 \$0 \$0
Program Benefits Program Benefits Program Cost Net Benefits Program Pv per ton Program Pv per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Pv per ton Pv per ton Pv per ton	2028 \$100,582 \$100,582 1,595 2028 \$0 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0	
Program Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Pv per ton Pv per ton Pv per ton Pv per ton Program Benefits Program Cost Net Benefits Pv per ton Pv per ton Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Research Pv per ton Research Research Research Research	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 -	203 \$102,706 \$102,706 1,629 203 \$1,203 \$1,138,703
Program Benefits Program Benefits Program Benefits Program Cost Net Benefits Program Pv per ton Program Benefits Program Cost Net Benefits Pv per ton Pv per ton Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Pv per Ban Enfor Pv per Ban Enfor	2028 \$100,582 \$100,582 1,595 2028 \$0 \$0 \$0 -	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0	203 \$102,706 \$102,706 1,629 203 \$0 \$0 \$0
Program Benefits Program Benefits Fons avoided through recycling Program Cost Net Benefits Fons avoided through recycling PV per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton SE Enhance Com Paper Ban Enfor Year Program Benefits Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 -	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 -	203 \$102,706 \$102,706 \$102,706 1,629 203 \$1,138,703 (\$98,961
Program Benefits Program Benefits Fons avoided through recycling Program Cost Net Benefits Fons avoided through recycling PV per ton Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton SE Enhance Com Paper Ban Enfor Year Program Benefits Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 - 2028 \$1,125,893 (\$97,071) \$1,222,965	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 -	203 \$102,706 \$102,706 \$102,706 1,629 203 \$1,138,703 (\$98,963 \$1,237,664
Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Program Feveling PV per ton BE Enhance Com Paper Ban Enfor Program Benefits Program Benefits Program Cost Net Benefits Program PV per ton	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 - 2028 \$1,125,893 (\$97,071) \$1,222,965	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 -	203 \$102,706 \$102,706 \$102,706 1,629 203 \$1,138,703 (\$98,963 \$1,237,664
Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 - 2028 \$1,125,893 (\$97,071) \$1,222,965 17,857	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 - - 2029 \$1,132,356 (\$98,025) \$1,230,381 17,960	203 \$102,706 \$102,706 1,629 203 \$6 \$6 \$6 \$1,138,703 \$1,138,703 \$1,237,664 18,066
Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Program Benefits Program Cost Net Benefits Program Benefits Pv per ton BE Enhance Com Paper Ban Enfor (ear Program Benefits Program Cost Net Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 \$0 - 2028 \$1,125,893 (\$97,071) \$1,222,965 17,857	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 - - 2029 \$1,132,356 (\$98,025) \$1,230,381 17,960	203 \$102,706 \$102,706 1,629 203 \$1,237,664 18,060
Program Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 \$0 \$0 \$0 \$1,125,893 (\$97,071) \$1,222,965 17,857	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 \$0 - - 2029 \$1,132,356 (\$98,025) \$1,230,381 17,960	203 \$102,706 \$102,706 \$102,706 1,629 203 \$1,138,703 (\$98,96; \$1,237,664 18,066
Program Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Cost Net Benefits Program Cost Program Benefits Program Cost Net Benefits Program Cost Settend Com Ban Program Benefits Program Benefits Program Cost	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 \$0 \$0 - 2028 \$1,125,893 (\$97,071) \$1,222,965 17,857 2028 \$417,872 (\$21,637)	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 \$0 - 2029 \$1,132,356 (\$98,025) \$1,230,381 17,960 2029	203 \$102,706 \$102,706 \$102,706 1,629 203 \$1,138,703 (\$98,96 \$1,237,664 18,066
Program Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Benefits	2028 \$100,582 \$0 \$100,582 1,595 2028 \$0 \$0 \$0 \$0 \$0 \$0 \$1,125,893 (\$97,071) \$1,222,965 17,857	2029 \$101,624 \$0 \$101,624 1,612 2029 \$0 \$0 \$0 \$0 - - 2029 \$1,132,356 (\$98,025) \$1,230,381 17,960	203 \$102,706 \$102,706 \$102,706 1,629 203 \$1,138,703 (\$98,96; \$1,237,664 18,066

41 Restore Education							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$3,838,317	\$0	\$0	\$0	\$71,854	\$157,914	\$282,982
Program Cost	\$4,734,109	\$0	\$0	\$300,000	\$589,387	\$574,752	\$551,123
Net Benefits	(\$895,791)	\$0	\$0	(\$300,000)	(\$517,534)	(\$416,838)	(\$268,140
Tons avoided through recycling	61,311	-	-	-	519	1,141	2,044
PV per ton	(\$15)						
42 Latex Paint Prod Stew							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$717,130	\$0	\$0	\$0	\$0	\$0	\$28,924
Program Cost	\$18,000	\$0	\$0	\$0	\$0	\$0	\$7,500
Net Benefits	\$699,130	\$0	\$0	\$0	\$0	\$0	\$21,424
Tons avoided through recycling	11,872	-	-	-	-	-	209
PV per ton	\$59						
43 New Education - Com							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$1,501,482	\$0	\$0	\$0	\$25,251	\$57,196	\$106,036
Program Cost	(\$341,914)	\$0	\$0	\$0	\$92,333	\$63,660	\$19,839
Net Benefits	\$1,843,395	\$0	\$0	\$0	(\$67,082)	(\$6,463)	\$86,198
Tons avoided through recycling	52,883	-	-	-	400	907	1,682
PV per ton	\$35						
·	•						
44 Phone & Junk Opt Out							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$3,410,079	\$0	\$0	\$51,311	\$115,481	\$214,916	\$315,807
Program Cost	\$1,245,287	\$0	\$284,000	\$116,666	\$100,666	\$83,266	\$183,266
Net Benefits	\$2,164,791	\$0	(\$284,000)	(\$65,355)	\$14,815	\$131,650	\$132,541
Tons avoided through recycling	53,068	-	-	371	834	1,552	2,281
PV per ton	\$41					•	-
per cen	*						
45 Ban Clean Wood							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$3,868,789	\$0	\$0	\$0	\$0	\$265,990	\$475,172
Program Cost	\$2,367,728	\$0	\$0	\$0	\$10,000	\$177,358	\$301,109
Net Benefits	\$1,501,061	\$0	\$0	\$ 0	(\$10,000)	\$88,632	\$174,063
Tons avoided through recycling	130,015				(+==,===)	4,219	7,536
PV per ton	\$12					4,213	7,550
i v per ton	712						
46 Com C&D Ban							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$4,388,718	\$0	\$0	\$0	\$0	\$0	\$0
Program Cost	\$5,846,353	\$0	\$0	\$0	\$0	\$0	\$0
Net Benefits	(\$1,457,634)	\$0	\$0	\$0	\$0	\$0	\$0
Tons avoided through recycling	172,010						
PV per ton	(\$8)						
1 v per ton	(70)						
50 Plast Film Ban							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$194,859	\$0	\$0	\$0	\$21,184	\$38,973	\$56,231
Program Cost	\$92,767	\$0	\$0	\$0	\$60,000	\$60,000	\$10,000
Net Benefits	\$102,093	\$0	\$0	\$0	(\$38,816)	(\$21,027)	\$46,231
Tons avoided through recycling	5,351	-	-	-	336	618	892
PV per ton	\$19				330	010	032
1 v per ton	713						
51 Pre Scale Recycle							
Year	Present Value	2010	2011	2012	2013	2014	201
Program Benefits	\$527,198	\$0	\$0	\$0	\$0	\$0	\$0
Program Cost	\$1,479,653	\$0	\$0	\$0	\$0	\$0	\$0
Net Benefits	(\$952,455)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$(
Tons avoided through recycling	24,194	\$U -	\$U -	\$U -	\$U -	\$U -	Ş
rons avoided through recycling	-	-	-	-	•	-	•
DV :	(\$39)						
PV per ton							
·							201
52 Divert Reuseables	Present Value	2010	2011	2012	2013	2014	
52 Divert Reuseables Year	Present Value	2010	2011	2012	2013	2014	
52 Divert Reuseables Year Program Benefits	\$33,032	\$0	\$0	\$0	\$0	\$0	\$1,299
52 Divert Reuseables Year Program Benefits Program Cost	\$33,032 \$7,335	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,299 \$1,000
752 Divert Reuseables Year Program Benefits Program Cost Net Benefits	\$33,032 \$7,335 \$25,696	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0	\$1,299 \$1,000 \$299
52 Divert Reuseables Year Program Benefits Program Cost	\$33,032 \$7,335	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,299 \$1,000 \$299 26

Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$397,322	\$466,760	\$500,552	\$516,215	\$524,704	\$531,568
Program Cost	\$528,028	\$513,360	\$505,488	\$501,571	\$499,325	\$497,880
Net Benefits	(\$130,705)	(\$46.600)	(\$4.936)	\$14,645	\$25,380	\$33,688
Tons avoided through recycling	2,870	3,371	3,615	3,729	3,790	3,839
PV per ton	,	-7-	-,	., .	.,	.,
42 Latex Paint Prod Stew	2016	2047	2010	2010	2020	202
Year Departure Departure	2016	2017	2018	2019	2020	202:
Program Benefits Program Cost	\$54,024 \$7,500	\$79,638	\$96,407	\$104,724 \$0	\$108,531 \$0	\$110,879 \$0
Net Benefits	\$46,524	\$7,500 \$72,138	\$7,500 \$88,907	\$104,724	\$108,531	ەد \$110.879
Tons avoided through recycling	390	572,138 575	696	756	784	\$110,873 801
PV per ton	330	373	050	750	704	001
. v per terr						
43 New Education - Com						
Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$151,093	\$179,793	\$194,889	\$202,310	\$206,576	\$209,622
Program Cost	(\$20,538)	(\$46,181)	(\$59,608)	(\$66,189)	(\$69,977)	(\$72,692
Net Benefits	\$171,632	\$225,974	\$254,497	\$268,498	\$276,553	\$282,314
Tons avoided through recycling	2,396	2,852	3,091	3,209	3,276	3,325
PV per ton						
44 Phone & Junk Opt Out						
Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$383,543	\$421,062	\$433,660	\$437,043	\$437,461	\$440,720
Program Cost	\$83,266	\$83,266	\$83,266	\$183,266	\$83,266	\$83,266
Net Benefits	\$300,277	\$337,796	\$350,394	\$253,777	\$354,195	\$357,454
Tons avoided through recycling	2,770	3,041	3,132	3,157	3,160	3,183
PV per ton						
45 Ban Clean Wood						
Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$666,444	\$780,351	\$420,299	\$433,179	\$441,113	\$447,169
Program Cost	\$409,264	\$476,651	\$253,646	\$261,266	\$265,960	\$269,543
Net Benefits	\$257,180	\$303,700	\$166,652	\$171,913	\$175,153	\$177,627
Tons avoided through recycling	10,570	12,377	6,666	6,870	6,996	7,092
PV per ton						
46 Com C&D Ban						
Year	2016	2017	2018	2019	2020	202
Program Benefits	\$0	\$0	\$248,128	\$462,739	\$677,892	\$822,218
Program Cost	\$0	\$70,000	\$410,156	\$660,443	\$911,374	\$1,083,055
Net Benefits	\$0	(\$70,000)	(\$162,028)	(\$197,704)	(\$233,482)	(\$260,837
Tons avoided through recycling	-	-	3,935	7,339	10,752	13,041
PV per ton			,	,	,	,
50 Plast Film Ban		2015		2212	2222	
Year Page 6th	2016	2017	2018	2019	2020	202:
Program Benefits Program Cost	\$66,374 \$5,000	\$70,280 \$0	\$5,959 \$0	\$6,097 \$0	\$6,193 \$0	\$6,272 \$0
Net Benefits	\$61,374	\$0 \$70,280	\$5,959	\$6,097	\$6,193	\$6,272
Tons avoided through recycling	1,053	1,115	95,999	97	98	99
PV per ton	1,033	1,113	33	3,	50	33
i v per ten						
51 Pre Scale Recycle						
Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$39,674	\$58,713	\$71,852	\$78,707	\$82,098	\$83,984
Program Cost	\$125,490	\$104,129	\$259,390	\$251,699	\$247,894	\$245,778
Net Benefits	(\$85,816)	(\$45,416)	(\$187,538)	(\$172,992)	(\$165,796)	(\$161,794
Tons avoided through recycling	786	1,164	1,424	1,560	1,627	1,665
PV per ton						
52 Divert Reuseables						
Year	2016	2017	2018	2019	2020	202:
Program Benefits	\$2,445	\$3,598	\$4,391	\$4,805	\$5,010	\$5,124
Program Cost	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Net Benefits	\$1,445	\$2,598	\$3,391	\$3,805	\$4,010	\$4,124
Tons avoided through recycling PV per ton	48	71	87	95	99	102

Year	2022	2023	2024	2025	2026	2027
	-		-			
Program Benefits	\$537,510	\$543,123	\$548,669	\$554,264	\$559,881	\$565,474
Program Cost	\$496,602	\$495,423	\$494,278	\$493,142	\$492,010	\$490,894
Net Benefits	\$40,907	\$47,700	\$54,391	\$61,122	\$67,871	\$74,580
Tons avoided through recycling PV per ton	3,882	3,923	3,963	4,003	4,044	4,084
•						
42 Latex Paint Prod Stew	2022	2022	2024	2025	2026	202
Year	2022	2023	2024	2025	2026	202
Program Benefits	\$112,473	\$113,822	\$115,114	\$116,429	\$117,755	\$119,112
Program Cost	\$0	\$0	\$0	\$0	\$0	\$0
Net Benefits	\$112,473	\$113,822	\$115,114	\$116,429	\$117,755	\$119,112
Tons avoided through recycling PV per ton	812	822	831	841	851	860
·						
43 New Education - Com Year	2022	2023	2024	2025	2026	202
Program Benefits	\$212,366	\$214,951	\$217,476	\$219,993	\$222,495	\$224,977
Program Cost	(\$75,147)	(\$77,463)	(\$79,726)	(\$81,983)	(\$84,226)	(\$86,451
Net Benefits	\$287,514	\$292,414	\$297,203	\$301,975	\$306,721	\$311,428
Tons avoided through recycling	3,368	3.409	3,449	3,489	3,529	3,568
PV per ton	3,300	3,403	3,443	3,403	3,323	3,300
44 Phone & Junk Opt Out						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$443,498	\$446,339	\$449,199	\$452,125	\$454,996	\$457,863
Program Cost	\$83,266	\$183,266	\$83,266	\$83,266	\$83,266	\$183,266
Net Benefits	\$360,232	\$263,073	\$365,933	\$368,859	\$371,730	\$274,597
Tons avoided through recycling	3,203	3,224	3,244	3,266	3,286	3,307
PV per ton	3,203	3,224	3,244	3,200	3,200	3,307
·						
45 Ban Clean Wood						
Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$452,863	\$458,321	\$463,691	\$469,056	\$474,397	\$479,696
Program Cost	\$272,911	\$276,140	\$279,317	\$282,491	\$285,650	\$288,785
Net Benefits	\$179,952	\$182,181	\$184,374	\$186,565	\$188,747	\$190,911
Tons avoided through recycling PV per ton	7,183	7,269	7,354	7,439	7,524	7,608
·						
46 Com C&D Ban Year	2022	2023	2024	2025	2026	2027
Program Benefits	\$894,866	\$928,529	\$945,742	\$956,882	\$965,894	\$974,009
•	\$1,169,471	\$1,209,516	\$1,229,991	\$1,243,242	\$1,253,962	\$1,263,615
Program Cost	31,105,471	\$1,205,310		(\$286,360)		
Not Donofita	(¢274 COC)	(¢200 006)				
Net Benefits	(\$274,606)	(\$280,986)	(\$284,249)		(\$288,068)	
Tons avoided through recycling	(\$274,606) 14,193	(\$280,986) 14,727	(\$284,249) 15,000	15,177	15,319	
Tons avoided through recycling PV per ton						
Tons avoided through recycling PV per ton 50 Plast Film Ban						15,448
Tons avoided through recycling PV per ton 50 Plast Film Ban	14,193	14,727	15,000	15,177	15,319	15,448 2027
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits	2022 \$6,349	2023 \$6,425	15,000 2024	15,177 2025 \$6,575	2026 \$6,650	15,448 202 \$6,724
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost	2022 \$6,349 \$0	2023 \$6,425 \$0	2024 \$6,500 \$0	2025 \$6,575 \$0	2026 \$6,650 \$0	202 \$6,724 \$0
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits	2022 \$6,349 \$0 \$6,349	2023 \$6,425 \$0 \$6,425	2024 \$6,500 \$0 \$6,500	2025 \$6,575 \$0 \$6,575	2026 \$6,650 \$0 \$6,650	2027 \$6,724 \$0 \$6,724
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits	2022 \$6,349 \$0	2023 \$6,425 \$0	2024 \$6,500 \$0	2025 \$6,575 \$0	2026 \$6,650 \$0	2027 \$6,724 \$0 \$6,724
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	2022 \$6,349 \$0 \$6,349	2023 \$6,425 \$0 \$6,425	2024 \$6,500 \$0 \$6,500	2025 \$6,575 \$0 \$6,575	2026 \$6,650 \$0 \$6,650	2027 \$6,724 \$0 \$6,724
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle	2022 \$6,349 \$0 \$6,349	2023 \$6,425 \$0 \$6,425	2024 \$6,500 \$0 \$6,500	2025 \$6,575 \$0 \$6,575	2026 \$6,650 \$0 \$6,650	\$6,724 \$6,724 \$107
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year	2022 \$6,349 \$0 \$6,349 101	2023 \$6,425 \$0 \$6,425 102	2024 \$6,500 \$0 \$6,500 103	2025 \$6,575 \$0 \$6,575 104	2026 \$6,650 \$0 \$6,650 105	2027 \$6,724 \$0 \$6,724 107
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits	2022 \$6,349 \$0 \$6,349 101	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477	2024 \$6,500 \$0 \$6,500 103	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572	202: \$6,724 \$0 \$6,724 107 202: \$90,574
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981	2024 \$6,500 \$6,500 103 2024 \$87,530 \$241,800	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509	202: \$6,724 \$0 \$6,724 107 202: \$90,574 \$238,384
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits	2022 \$6,349 \$0 \$6,349 101	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477	2024 \$6,500 \$0 \$6,500 103	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572	2027 \$6,724 \$0 \$6,724 107 2027 \$90,574 \$238,384 (\$147,810
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915)	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504)	2024 \$6,500 \$0 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269)	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089)	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937)	2027 \$6,724 \$0 \$6,724 107 2027 \$90,574 \$238,384 (\$147,810
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915)	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504)	2024 \$6,500 \$0 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269)	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089)	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937)	202: \$6,724 \$0 \$6,724 107 202: \$90,574 \$238,384 (\$147,810
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 52 Divert Reuseables	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915)	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504)	2024 \$6,500 \$0 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269)	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089)	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937)	202: \$6,724 \$6,724 107 202: \$90,574 \$238,384 (\$147,810 1,795
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 52 Divert Reuseables	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915) 1,692	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504) 1,714	2024 \$6,500 \$0,500 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269) 1,735	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089) 1,755	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937) 1,775	202: \$6,724 \$0 \$6,724 107 202: \$90,574 \$238,384 (\$147,810 1,795
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 52 Divert Reuseables Year	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915) 1,692	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504) 1,714	2024 \$6,500 \$0,500 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269) 1,735	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089) 1,755	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937) 1,775	2027 \$6,724 \$0 \$6,724 107
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 52 Divert Reuseables Year Program Benefits	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915) 1,692 2022 \$5,207	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504) 1,714	2024 \$6,500 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269) 1,735	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089) 1,755 2025 \$5,403	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937) 1,775	202: \$6,724 \$0 \$6,724 107 202: \$90,574 \$238,384 (\$147,810 1,795
Tons avoided through recycling PV per ton 50 Plast Film Ban Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 51 Pre Scale Recycle Year Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 52 Divert Reuseables Year Program Benefits Program Benefits Program Cost	2022 \$6,349 \$0 \$6,349 101 2022 \$85,341 \$244,256 (\$158,915) 1,692 2022 \$5,207 \$1,000	2023 \$6,425 \$0 \$6,425 102 2023 \$86,477 \$242,981 (\$156,504) 1,714 2023 \$5,276 \$1,000	2024 \$6,500 \$0 \$6,500 103 2024 \$87,530 \$241,800 (\$154,269) 1,735 2024 \$5,340 \$1,000	2025 \$6,575 \$0 \$6,575 104 2025 \$88,558 \$240,647 (\$152,089) 1,755 2025 \$5,403 \$1,000	2026 \$6,650 \$0 \$6,650 105 2026 \$89,572 \$239,509 (\$149,937) 1,775 2026 \$5,465 \$1,000	202: \$6,724 \$0 \$6,724 107 202: \$90,574 \$238,384 (\$147,810 1,795 202: \$5,526 \$1,000

41 Restore Education Year	2028	2029	2030
Program Benefits	\$570,995	\$576,523	\$582,242
Program Cost	\$489,830	\$488,799	\$487,736
Net Benefits	\$81,164	\$87,725	\$94,506
ons avoided through recycling	4,124	4,164	4,205
PV per ton	·	ŕ	•
2 Latex Paint Prod Stew	2020	2020	2020
ear Dua susua Dan afita	2028	2029	2030
Program Benefits	\$120,486	\$121,927	\$123,441
Program Cost Net Benefits	\$0 \$120,486	\$0 \$121,927	\$0 \$123,441
ons avoided through recycling	\$120,486 870	\$121,927 881	\$125,441 892
PV per ton	870	001	632
r v per ton			
3 New Education - Com			
ear	2028	2029	2030
Program Benefits	\$227,377	\$229,730	\$232,171
Program Cost	(\$88,603)	(\$90,711)	(\$92,900)
Net Benefits	\$315,980	\$320,441	\$325,071
ons avoided through recycling	3,606	3,644	3,682
PV per ton			
4 Phone & Junk Opt Out			
'ear	2028	2029	2030
Program Benefits	\$460,871	\$463,995	\$467,383
Program Cost	\$83,266	\$83,266	\$83,266
Net Benefits	\$377,605	\$380,729	\$384,117
Tons avoided through recycling	3,329	3,351	3,376
PV per ton			
5 Ban Clean Wood			
'ear	2028	2029	2030
Program Benefits	\$484,819	\$489,842	\$495,055
Program Cost Net Benefits	\$291,816	\$294,788	\$297,871
ons avoided through recycling	\$193,003 7,689	\$195,054 7,769	\$197,183 7,852
PV per ton	7,069	7,709	7,032
i v per ton			
6 Com C&D Ban			
'ear	2028	2029	2030
Program Benefits	\$981,573	\$989,344	\$997,392
Program Cost	\$1,272,612	64 204 057	
		\$1,281,857	\$1,291,429
Net Benefits	(\$291,040)	(\$292,512)	(\$294,038)
ons avoided through recycling			
	(\$291,040)	(\$292,512)	(\$294,038)
ons avoided through recycling PV per ton	(\$291,040)	(\$292,512)	(\$294,038)
ons avoided through recycling PV per ton PU Plast Film Ban	(\$291,040) 15,568	(\$292,512) 15,691	(\$294,038) 15,819
ons avoided through recycling PV per ton Plast Film Ban Year	(\$291,040) 15,568	(\$292,512) 15,691 2029	(\$294,038) 15,819 2030
ons avoided through recycling PV per ton PU Plast Film Ban	(\$291,040) 15,568	(\$292,512) 15,691	(\$294,038) 15,819
For a voided through recycling PV per ton FOR Plast Film Ban For Program Benefits	(\$291,040) 15,568 2028 \$6,796	(\$292,512) 15,691 2029 \$6,866	(\$294,038) 15,819 2030 \$6,939
Program Benefits Program Cost Net Benefits	(\$291,040) 15,568 2028 \$6,796 \$0	(\$292,512) 15,691 2029 \$6,866 \$0	(\$294,038) 15,819 2030 \$6,939 \$0
Fons avoided through recycling PV per ton FO Plast Film Ban Forgram Benefits Program Cost Net Benefits	(\$291,040) 15,568 2028 \$6,796 \$0 \$6,796	(\$292,512) 15,691 2029 \$6,866 \$0 \$6,866	(\$294,038) 15,819 2030 \$6,939 \$0 \$6,939
Fons avoided through recycling PV per ton FO Plast Film Ban Foogram Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton	(\$291,040) 15,568 2028 \$6,796 \$0 \$6,796	(\$292,512) 15,691 2029 \$6,866 \$0 \$6,866	(\$294,038) 15,819 2030 \$6,939 \$0 \$6,939
Program Benefits Program Cost Net Benefits Fons avoided through recycling Program Cost Net Benefits Fons avoided through recycling PV per ton 11 Pre Scale Recycle	(\$291,040) 15,568 2028 \$6,796 \$0 \$6,796 108	2029 \$6,866 \$0 \$6,866 109	2030 \$6,939 \$6,939 \$10
Program Benefits Program Cost Net Benefits Pros avoided through recycling Program Cost Net Benefits Pros avoided through recycling PV per ton PV per ton	2028 \$6,796 \$0 \$6,796 108	2029 \$6,866 \$0 \$6,866 109	2030 \$6,939 \$0,939 \$10
Program Benefits For savoided through recycling PV per ton FOR Plast Film Ban Program Benefits Program Cost Net Benefits For savoided through recycling PV per ton FOR PRESCALE RECYCLE Program Benefits	2028 \$6,796 \$0 \$6,796 108	\$6,866 \$0 \$6,866 \$0 \$6,866 \$109	\$294,038) 15,819 2030 \$6,939 \$0,939 \$110 2030 \$93,476
Program Benefits For Scale Recycle Program Benefits Program Cost Net Benefits Program Cost Pre Scale Recycle Program Benefits Program Cost Program Cost	2028 \$6,796 \$0 \$6,796 108 2028 \$91,543 \$237,298	2029 \$6,866 \$0 \$6,866 109 2029 \$92,491 \$236,234	2030 \$6,939 \$0,939 \$10 \$2030 \$3,476 \$235,129
Program Benefits Program Recycling Program Cost Net Benefits Program Cost Net Benefits Program Program Program Cost Net Benefits Program Cost Pre Scale Recycle Program Benefits Program Cost Net Benefits Program Cost Net Benefits	\$6,796 \$6,796 \$108 \$2028 \$6,796 \$108 \$2028 \$91,543 \$237,298 \$145,755	2029 \$6,866 \$0 \$6,866 109 2029 \$92,491 \$236,234 (\$143,743)	2030 \$6,939 \$0,939 \$10 \$2030 \$3,476 \$235,129 \$141,654
Fons avoided through recycling PV per ton FO Plast Film Ban Foogram Benefits Program Cost Net Benefits Fons avoided through recycling PV per ton FOR Pre Scale Recycle Foogram Cost Net Benefits Program Benefits Program Cost Net Benefits Fons avoided through recycling	2028 \$6,796 \$0 \$6,796 108 2028 \$91,543 \$237,298	2029 \$6,866 \$0 \$6,866 109 2029 \$92,491 \$236,234	2030 \$6,939 \$0,939 \$10 \$2030 \$3,476 \$235,129
Program Benefits Pv per ton For Plast Film Ban Program Benefits Program Cost Net Benefits Fons avoided through recycling Pv per ton For Program Benefits Program Benefits Program Benefits Program Benefits Program Cost Net Benefits	\$6,796 \$6,796 \$108 \$2028 \$6,796 \$108 \$2028 \$91,543 \$237,298 \$145,755	2029 \$6,866 \$0 \$6,866 109 2029 \$92,491 \$236,234 (\$143,743)	2030 \$6,939 \$0,939 \$10 \$2030 \$3,476 \$235,129 \$141,654
Program Benefits Program Benefits Program Pv per ton Program Benefits Program Cost Net Benefits Fons avoided through recycling Pv per ton Program Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton Pv per ton	\$6,796 \$6,796 \$108 \$2028 \$6,796 \$108 \$2028 \$91,543 \$237,298 \$145,755	2029 \$6,866 \$0 \$6,866 109 2029 \$92,491 \$236,234 (\$143,743)	2030 \$6,939 \$0,939 \$10 \$2030 \$3,476 \$235,129 \$141,654
Program Benefits Program Cost Net Benefits Program Benefits Program Cost Net Benefits Program Pv per ton 11 Pre Scale Recycle Program Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Divert Reuseables	\$6,796 \$6,796 \$108 \$2028 \$6,796 \$108 \$2028 \$91,543 \$237,298 \$145,755	2029 \$6,866 \$0 \$6,866 109 2029 \$92,491 \$236,234 (\$143,743)	2030 \$6,939 \$0,939 \$10 \$2030 \$3,476 \$235,129 \$141,654
Program Benefits Program Cost Net Benefits Program Reveling PV per ton Program Benefits Program Cost Net Benefits Program Pv per ton For Scale Recycle Program Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Program Cost Net Benefits Pv per ton For Savoided through recycling Pv per ton For Divert Reuseables	\$6,796 \$0,568 \$6,796 \$0 \$6,796 108 \$91,543 \$237,298 \$145,755) 1,815	\$6,866 \$0 \$6,866 \$109 \$92,491 \$236,234 \$143,743 \$1,833	2030 \$6,939 \$6,939 \$110 2030 \$93,476 \$235,129 (\$141,654) 1,853
Program Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Pv per ton 11 Pre Scale Recycle Program Benefits Program Cost Net Benefits Pv per ton 22 Divert Reuseables	\$2028 \$6,796 \$0 \$6,796 108 \$91,543 \$237,298 \$145,755) 1,815	\$6,866 \$0 \$6,866 109 \$92,491 \$236,234 \$143,743) 1,833	2030 \$6,939 \$6,939 \$10 \$2030 \$93,476 \$235,129 (\$141,654) 1,853
Program Benefits Program Benefits Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Pv per ton 11 Pre Scale Recycle Program Benefits Program Cost Net Benefits Pv per ton 12 Divert Reuseables Program Benefits	\$2028 \$6,796 \$0 \$6,796 108 \$91,543 \$237,298 \$145,755) 1,815	\$6,866 \$0 \$6,866 109 \$92,491 \$236,234 \$143,743 1,833	2030 \$6,939 \$0,\$6,939 \$110 2030 \$93,476 \$235,129 \$141,654) 1,853
Program Benefits Program Benefits Program Benefits Program Benefits Program Program Benefits Proms avoided through recycling PV per ton Program Benefits Program Cost Net Benefits Program Program Benefits Program Cost Net Benefits Program Cost Net Benefits Program Program Benefits Program Cost Net Benefits Program Benefits Program Benefits Program Benefits Program Benefits Program Cost	2028 \$6,796 \$0 \$6,796 108 \$91,543 \$237,298 \$145,755) 1,815 2028 \$5,585 \$1,000	2029 \$6,866 \$0 \$6,866 109 \$92,491 \$236,234 \$1,833	2030 \$6,939 \$6,939 \$10 \$93,476 \$235,129 \$141,654 1,853 2030

Construction and Demolition Debris - Program Tons Per Year Scenario 78, Recommended

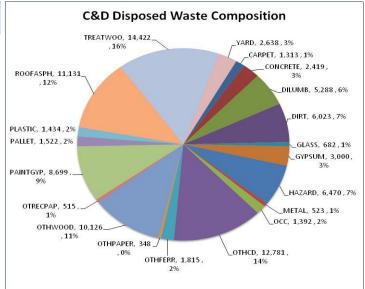
	Section	5 70, NCC	ommena	Order ->	7	6	1	4	. 5	2	8	10	12	13
				0.00.			Deconstr	<u> </u>		Volunta		- 10	Bans	Bans
							uction			ry	Facility		beyond	beyond
	Recycle	Total	Total	Total	Beneficial	C&D Priv	Single	Built	LEED	Assess	Certifica	ABC	ABC	ABC
Year	Rate	Material	Diposed	Diverted	Uses	Rec	Family	Green	Program	ment	tion	BAN	2013	2014
		-	-	-	90	99	80	82	83	81	94	92	78	77
ALL MA	TERIALS								-	•				
2007	49.3%	415,801	201,156	214,645	9,738	204,907	-	-	-	-	-	-	-	-
2008	50.6%	397,052	181,241	215,811	14,961	200,851	-	-	-	-	-	-	-	-
2009 2010	56.4% 57.2%	288,551	115,446	173,105	10,362	162,742 171,595	4	217	- 7,409	-	-	-	-	-
2010	57.6%	313,461 327,334	123,165 127,449	190,295 199,885	10,971 11,306	176,445	10	317 833	11,291		-			
2011	58.1%	351,228	134,996	216,232	11,998	186,873	30	2,017	14,539	59	257	459		
2012	58.7%	371,060	140,583	230,477	12,558	195,293	86	3,960	16,509	168	694	884	325	_
2013	60.2%	375,819	137,147	238,672	12,612	196,063	231	5,860	17,121	448	1,666	1,276	761	2,635
2015	61.9%	370,548	129,038	241,510	12,319	192,068	572	6,947	16,974	1,109	3,384	1,467	1,473	5,198
2016	64.1%	368,871	120,413	248,458	12,082	190,141	1,284	7,447	16,864	2,489	5,669	1,525	2,309	8,648
2017	66.4%	348,631	106,101	242,530	11,106	178,735	2,256	7,207	15,844	4,365	7,277	1,435	2,782	11,522
2018	68.2%	339,571	97,680	241,891	10,270	173,603	3,213	7,053	15,333	6,205	8,186	1,351	2,992	13,683
2019	69.4%	337,796	93,952	243,844	9,275	173,270	3,851	7,016	15,188	7,428	8,604	1,248	3,058	14,905
2020	70.3%	338,772	92,653	246,120	7,965	175,395	4,177	7,032	15,200	8,052	8,760	1,105	3,055	15,378
2021	70.9%	355,170	96,353	258,818	7,015	185,791	4,515	7,370	15,923	8,701	9,187	1,005	3,160	16,150
2022	71.2%	362,478	97,964	264,514	6,305	190,912	4,661	7,521	16,245	8,981	9,352	925	3,193	16,419
2023	71.4%	357,540	96,475	261,065	5,822	188,931	4,617	7,418	16,022	8,896	9,210	865	3,134	16,151
2024	71.5%	353,337	95,281	258,056	5,594	186,962	4,570	7,331	15,833	8,806	9,095	835	3,090	15,942
2025	71.5%	343,254	92,540	250,714	5,375	181,720	4,442	7,122	15,381	8,559	8,833	804	2,999	15,479
2026	71.5%	337,940	91,099	246,841	5,270	178,942	4,374	7,012	15,142	8,428	8,695	789	2,952	15,237
2027	71.5%	340,503	91,787	248,716	5,301	180,312	4,407	7,065	15,257	8,493	8,761	794	2,974	15,351
2028	71.5%	343,496	92,593	250,903	5,345	181,902	4,446	7,127	15,391	8,568	8,838	801	3,000	15,486
2029	71.5%	345,141	93,036	252,105	5,369	182,775	4,468	7,161	15,465	8,609	8,880	804	3,014	15,560
2030	71.5%	349,601	94,238	255,363	5,438	185,137	4,525	7,253	15,665	8,720	8,995	815	3,053	15,761
	JT CONCRI													
2007 2008	16.0% 12.1%	231,093 207,802	184,455 167,760	46,638 40,043	9,738 14,961	36,900 25,082	-	-	-	-	-	-	-	-
2008	23.1%	151,017	105,816	45,201	10,362	34,838	-	-	-	-	-	-	-	-
2010	24.4%	164,054	113,032	51,022	10,971	36,996	2	106	2,947	-	-	-	-	-
2011	25.1%	171,315	117,041	54,274	11,306	38,191	4	279	4,494	-	-	-	-	-
2012	25.7%	183,820	124,496	59,324	11,998	40,583	13	675	5,792	59	204	-	-	-
2013	26.5%	194,199	130,111	64,088	12,558	42,536	37	1,325	6,586	168	554	-	325	-
2014	28.8%	196,690	127,423	69,267	12,612	42,778	98	1,960	6,837	448	1,349	-	761	2,425
2015	31.6%	193,931	120,299	73,632	12,319	41,878	242	2,319	6,776	1,109	2,808	-	1,473	4,708
2016	35.4%	193,054	112,706	80,347	12,082	41,294	543	2,476	6,716	2,489	4,840	-	2,309	7,599
2017	39.2%	182,461	99,920	82,540	11,106	38,570	954	2,382	6,282	4,365	6,349	-	2,782	9,751
2018	42.1%	177,719	92,698	85,020	10,270	37,306	1,358	2,316	6,051	6,205	7,244	-	2,992	11,277
2019	43.9%	176,790	89,827	86,963	9,275	37,353	1,628	2,295	5,975	7,428	7,708	-	3,058	12,242
2020	45.2%	177,301	89,200	88,101	7,965	38,206	1,766	2,296	5,971	8,052	7,958	-	3,055	12,833
2021	46.0%	185,883	93,284	92,599	7,015	40,940	1,908	2,404	6,251	8,701	8,454	-	3,160	13,764
2022	46.5%	189,708	95,167	94,540	6,305	42,387	1,970	2,452	6,376	8,981	8,677	-	3,193	14,199
2023	46.7%	187,123	93,870	93,254	5,822	42,098	1,952	2,419	6,288	8,896	8,578	-	3,134	14,068
2024	46.8%	184,924	92,768	92,156	5,594	41,720	1,932	2,390	6,214	8,806	8,485	-	3,090	13,926
2025	46.8%	179,646	90,121	89,525	5,375	40,573	1,878	2,322	6,036	8,559	8,245	-	2,999	13,538
2026	46.9%	176,865	88,726	88,139	5,270	39,962	1,849	2,286	5,943	8,428	8,119	-	2,952	13,331
2027	46.9%	178,207	89,399	88,807	5,301	40,271	1,863	2,303	5,988	8,493	8,181	-	2,974	13,434
2028	46.9%	179,773	90,185	89,588	5,345	40,627	1,880	2,323	6,041	8,568	8,253	-	3,000	13,552
2029	46.9%	180,634	90,617	90,017	5,369	40,822	1,889	2,335	6,069	8,609	8,292	-	3,014	13,617
2030	46.9%	182,968	91,788	91,180	5,438	41,350	1,913	2,365	6,148	8,720	8,399	-	3,053	13,793

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Summary - Construction and Demolition Program Tons Per Year Scenario 78, Recommended Year 2025

Summary - Const	truction ar	nd Demoli	tion Progra	m Tons	Per Year	Scenario	78, Reco	mmeno	ded Yea	ar 202	25					(in tons pe	r year)
All Material C&D		Total Disposed a	Total Generated d = a + b + c	Total Beneficia I Uses b	Total Recycled c	Percent Recycled c/d	C&D Priv Rec		Benefici al Uses		ruction Single	Volunta ry Assess ment	Built Green	LEED Program	Bans beyond ABC 2013	Bans beyond ABC 2014	
		1	3	2			99	94	90	92	80	81	82	83	78	77	Total
Carpet	CARPET	1,313	1,946	_	633	32.5%	103	134		_	28	_	21	118	229	_	633
Rock/ Concrete/ Brick/ Ceramic & Porcelain		·	,						-								
Porceiain	CONCRETE	2,419	163,607	-	161,189	98.5%	141,147	588	-	804	2,564	-	4,800	9,344	-	1,942	161,189
Dimension lumber	DILUMB	5,288	21,402	1,587	14,528	67.9%	6,775	1,109	1,587	-	320	861	506	1,077	-	3,879	16,115
Sand/Soil/Dirt	DIRT	6,023	7,510	-	1,487	19.8%	-	763	-	-	107	-	95	523	-	-	1,487
Glass	GLASS	682	682	-	-	0.0%	-	-	-	-	-	-	-	-	-	-	_
Clean Gypsum Board	GYPSUM	3,000	10,807	-	7,807	72.2%	5,389	449	-	_	104	-	222	376	1,267	-	7,807
Hazardous & Other	HAZARD	6,470	6,512	-	42	0.6%	_	_	-	_	_	42	_	_	_	_	42
Metal	METAL	523	7,345	_	6,822	92.9%	4,036	110	_	_	110	1,754	137	292	384	_	6,822
Corrugated Kraft	14121712	525	7,5.5		0,022	32.370	1,050	110			110	1,75	157	232	50.		0,022
(OCC)	осс	1,392	1,392	-	-	0.0%	-	-	-	-	-	-	-	-	-	-	-
Other C&D	OTHCD	12,781	26,563	877	12,905	48.6%	10,759	1,119	877	-	220	-	109	699	-	-	13,781
Other ferrous	OTHFERR	1,815	3,835	-	2,020	52.7%	159	333	-	-	55	221	74	174	1,005	-	2,020
Other Paper	OTHPAPER	348	419	-	71	16.9%	-	42	-	-	4	-	6	20	-	-	71
Other recyclable wood	OTHWOOD	10,126	32,813	2,458	20,229	61.6%	10,495	1,514	2,458	-	468	1,321	643	1,511	-	4,277	22,687
Other Recyclable Paper	OTRECPAP	515	601		86	14.3%	_	71	_	_	8	_	8	_	_		86
Painted/Demolition																	
Gypsum	PAINTGYP	8,699	9,382	-	683	7.3%	-	439	-	-	79	-	19	146	-	-	683
Pallets & crates	PALLET	1,522	5,854	453	3,880	66.3%	1,932	293	453	-	88	-	144	307	-	1,116	4,333
Plastic	PLASTIC	1,434	1,993	-	558	28.0%	-	143	-	-	22	180	19	79	115	-	558
Roofing (asphalt & comp)	ROOFASPH	11,131	19,334	-	8,203	42.4%	926	1,728	-	-	249	-	320	714	-	4,266	8,203
Treated and																	
contaminated wood	TREATWOO	14,422	18,618	-	4,196	22.5%	-	-	-	-	16	4,180	-	-	-	-	4,196
Yard waste & other																	
organics	YARD	2,638	2,638	-	-	0.0%	-	-	-	-	-	-	-	-	-	-	-
Total	Grand Total	92,540	343,254	5,375	245,339	71.5%	181,720	8,833	5,375	804	4,442	8,559	7,122	15,381	2,999	15,479	250,714

				Total		
		Total	Total	Beneficia	Total	Percer
ear		Disposed	Generated	l Uses	Recycled	Recycle
	2007	201,156	415,801	9,738	204,907	49.3
	2008	181,241	397,052	14,961	200,851	50.6
	2009	115,446	288,551	10,362	162,742	56.4
	2010	123,165	313,461	10,971	179,325	57.2
	2011	127,449	327,334	11,306	188,579	57.6
	2012	134,996	351,228	11,998	204,235	58.1
	2013	140,583	371,060	12,558	217,919	58.7
	2014	137,147	375,819	12,612	226,060	60.2
	2015	129,038	370,548	12,319	229,191	61.9
	2016	120,413	368,871	12,082	236,376	64.1
	2017	106,101	348,631	11,106	231,424	66.4
	2018	97,680	339,571	10,270	231,621	68.2
	2019	93,952	337,796	9,275	234,569	69.4
	2020	92,653	338,772	7,965	238,155	70.3
	2021	96,353	355,170	7,015	251,803	70.9
	2022	97,964	362,478	6,305	258,209	71.2
	2023	96,475	357,540	5,822	255,243	71.4
	2024	95,281	353,337	5,594	252,463	71.5
	2025	92,540	343,254	5,375	245,339	71.5
	2026	91,099	337,940	5,270	241,571	71.5
	2027	91,787	340,503	5,301	243,415	71.5
	2028	92,593	343,496	5,345	245,558	71.5
	2029	93,036	345,141	5,369	246,736	71.5
	2030	94,238	349,601	5,438	249,925	71.5



Summary of Recycling Program Benefits and Costs Construction and Demolition Scenario 78, Recommended

Total				,		
Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$42,963,512	\$429	\$1,215	\$93,480	\$250,213	\$813,888
· ·		•				. ,
Program Cost	\$2,236,516	\$20,000	\$65,000	\$100,000	\$125,000	\$165,000
Net Benefits	\$40,726,996	(\$19,571)	(\$63,785)	(\$6,520)	\$125,213	\$648,888
Tons avoided through recycling	608,188	4	10	806	2,157	7,016
4/22/11 12:46 PM	All costs in 2010 o	dollars				
New Programs	(existing progra	ms 90 and 99	not included	d)		
77 Bans beyond ABC 2014				•		
Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$16,205,753	\$0	\$0	\$0	\$0	\$305,675
Program Cost	\$586,650	\$0	\$0	\$0	\$35,000	\$20,000
Net Benefits	\$15,619,104	\$0	\$0	\$0	(\$35,000)	\$285,675
Tons avoided through recycling	229,505		_	-	-	2,635
PV per tor						_,
·						
78 Bans beyond ABC 2013						
Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$3,386,016	\$0	\$0	\$0	\$37,670	\$88,224
Program Cost	\$636,225	\$0	\$0	\$35,000	\$20,000	\$55,000
Net Benefits	\$2,749,791	\$0	\$0	(\$35,000)	\$17,670	\$33,224
Tons avoided through recycling	47,325	-	-	-	325	761
PV per tor	s \$58					
80 Deconstruction Single Fam	ily					
Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$4,218,528	\$429	\$1,215	\$3,530	\$10,021	\$26,763
Program Cost	\$423,737	\$20,000	\$25,000	\$30,000	\$30,000	\$30,000
Net Benefits	\$3,794,791	(\$19,571)	(\$23,785)	(\$26,470)	(\$19,979)	(\$3,237)
Tons avoided through recycling	60,741	4	10	30	86	231
PV per tor	\$62					
Of Malantana Assessment						
81 Voluntary Assessment	Dunnant Malus	2010	2011	2012	2012	2014
Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$8,131,930	\$0	\$0	\$6,855	\$19,461	\$51,960
Program Cost	\$234,676	\$0	\$0	\$10,000	\$15,000	\$20,000
Net Benefits	\$7,897,254	\$0	\$0	(\$3,145)	\$4,461	\$31,960
Tons avoided through recycling	117,087	-	•	59	168	448
PV per tor	n \$67					
92 ABC BAN						
Year	Present Value	2010	2011	2012	2013	2014
Program Benefits	\$1,475,275	\$0	\$0	\$53,232	\$102,551	\$148,019
Program Cost	\$82,124	\$0	\$5,000	\$10,000	\$10,000	\$10,000
Net Benefits	\$1,393,150	\$0	(\$5,000)	\$43,232	\$92,551	\$138,019
Tons avoided through recycling	19,187	-	-	459	884	1,276
PV per tor	n \$73					
94 Facility Certification						
	Present Value	2010	2011	2012	2012	2014
Year Program Repetits		2010	2011	2012	2013	2014
Program Gost	\$9,546,010	\$0 \$0	\$0 \$35,000	\$29,863 \$15,000	\$80,509 \$15,000	\$193,247
Program Cost Net Benefits	\$273,104	\$0 \$0	(\$35,000)	\$15,000 \$14,863	\$15,000 \$65,500	\$30,000 \$163,247
Tons avoided through recycling	\$9,272,906 134,344	ŞU	(333,000)	\$14,863 257	\$65,509 694	\$163,247 1,666
PV per tor			-	23/	054	1,000
Pv per tor	وں ج					

Total						
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$1,531,475	\$2,543,242	\$3,437,967	\$4,133,172	\$4,535,080	\$4,701,184
Program Cost	\$215,000	\$215,000	\$190,000	\$180,000	\$180,000	\$175,000
Net Benefits	\$1,316,475	\$2,328,242	\$3,247,967	\$3,953,172	\$4,355,080	\$4,526,184
Tons avoided through recycling	13,202	21,925	29,638	35,631	39,096	40,527
4/22/11 12:46 PM	-,	,	-,	22,22	,	-,-
,, ==, == == :						
New Programs						
77 Bans beyond ABC 2014						
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$602,970	\$1,003,207	\$1,336,516	\$1,587,192	\$1,728,984	\$1,783,824
Program Cost	\$55,000	\$85,000	\$60,000	\$45,000	\$65,000	\$45,000
Net Benefits	\$547,970	\$918,207	\$1,276,516	\$1,542,192	\$1,663,984	\$1,738,824
Tons avoided through recycling	5,198	8,648	11,522	13,683	14,905	15,378
PV per ton						
70. 0						
78 Bans beyond ABC 2013	2045	2046	2047	2010	2010	2020
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$170,836	\$267,837	\$322,679	\$347,090	\$354,770	\$354,325
Program Cost	\$85,000	\$60,000	\$45,000	\$65,000	\$45,000	\$45,000
Net Benefits	\$85,836	\$207,837	\$277,679	\$282,090	\$309,770	\$309,325
Tons avoided through recycling	1,473	2,309	2,782	2,992	3,058	3,055
PV per ton						
80 Deconstruction Single Famil						
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$66,325	\$148,964	\$261,749	\$372,761	\$446,765	\$484,569
Program Cost	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Net Benefits	\$36,325	\$118,964	\$231,749	\$342,761	\$416,765	\$454,569
Tons avoided through recycling	572	1,284	2,256	3,213	3,851	4,177
PV per ton						
81 Voluntary Assessment						
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$128,696	\$288,705	\$506,370	\$719,817	\$861,701	\$934,085
Program Cost	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Net Benefits	\$108,696	\$268,705	\$486,370	\$699,817	\$841,701	\$914,085
Tons avoided through recycling	1,109	2,489	4,365	6,205	7,428	8,052
PV per ton	1,103	2,403	7,303	0,203	7,420	0,032
r v per ton						
92 ABC BAN						
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$170,150	\$176,872	\$166,477	\$156,765	\$144,771	\$128,169
Program Cost	\$10,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Net Benefits	\$160,150	\$171,872	\$161,477	\$151,765	\$139,771	\$123,169
Tons avoided through recycling	1,467	1,525	1,435	1,351	1,248	1,105
PV per ton						
94 Facility Certification						
Year	2015	2016	2017	2018	2019	2020
Program Benefits	\$392,498	\$657,657	\$844,177	\$949,546	\$998,089	\$1,016,211
Program Cost	\$15,000	\$15,000	\$30,000	\$15,000	\$15,000	\$30,000
Net Benefits	\$377,498	\$642,657	\$814,177	\$934,546	\$983,089	\$986,211
Tons avoided through recycling	3,384	5,669	7,277	8,186	8,604	8,760
PV per ton	-,			-,3	-,	-,
i v per ton						

Total						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$4,955,366	\$5,049,612	\$4,973,231	\$4,911,127	\$4,769,547	\$4,695,173
Program Cost	\$180,000	\$180,000	\$175,000	\$180,000	\$180,000	\$175,000
Net Benefits	\$4,775,366	\$4,869,612	\$4,798,231	\$4,731,127	\$4,589,547	\$4,520,173
Tons avoided through recycling	42,719	43,531	42,873	42,337	41,117	40,476
4/22/11 12:46 PM	•	•	•	•	•	,
New Programs						
77 Bans beyond ABC 2014						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$1,873,416	\$1,904,547	\$1,873,552	\$1,849,254	\$1,795,604	\$1,767,480
Program Cost	\$45,000	\$65,000	\$45,000	\$45,000	\$65,000	\$45,000
Net Benefits	\$1,828,416	\$1,839,547	\$1,828,552	\$1,804,254	\$1,730,604	\$1,722,480
Tons avoided through recycling	16,150	16,419	16,151	15,942	15,479	15,237
PV per ton	10,130	10,413	10,131	13,342	13,473	13,237
i v per ton						
78 Bans beyond ABC 2013						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$366,610	\$370,390	\$363,487	\$358,451	\$347,936	\$342,445
Program Cost	\$65,000	\$45,000	\$45,000	\$65,000	\$45,000	\$45,000
Net Benefits	\$301,610	\$325,390	\$318,487	\$293,451	\$302,936	\$297,445
Tons avoided through recycling	3,160	3,193	3,134	3,090	2,999	2,952
PV per ton						
80 Deconstruction Single Famil						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$523,724	\$540,647	\$535,547	\$530,080	\$515,250	\$507,382
Program Cost	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Net Benefits	\$493,724	\$510,647	\$505,547	\$500,080	\$485,250	\$477,382
Tons avoided through recycling	4,515	4,661	4,617	4,570	4,442	4,374
PV per ton						
81 Voluntary Assessment						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$1,009,329	\$1,041,849	\$1,031,988	\$1,021,440	\$992,859	\$977,694
Program Cost	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Net Benefits	\$989,329	\$1,021,849	\$1,011,988	\$1,001,440	\$972,859	\$957,694
Tons avoided through recycling	8,701	8,981	8,896	8,806	8,559	8,428
PV per ton	0,701	0,501	0,050	0,000	0,333	0,420
·						
92 ABC BAN						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$116,623	\$107,301	\$100,299	\$96,876	\$93,275	\$91,523
Program Cost	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Net Benefits	\$111,623	\$102,301	\$95,299	\$91,876	\$88,275	\$86,523
Tons avoided through recycling	1,005	925	865	835	804	789
PV per ton						
94 Facility Certification						
Year	2021	2022	2023	2024	2025	2026
Program Benefits	\$1,065,664	\$1,084,877	\$1,068,357	\$1,055,026	\$1,024,622	\$1,008,650
Program Cost	\$15,000	\$15,000	\$30,000	\$15,000	\$15,000	\$30,000
Net Benefits	\$1,050,664	\$1,069,877	\$1,038,357	\$1,040,026	\$1,009,622	\$978,650
Tons avoided through recycling	9,187	9,352	9,210	9,095	8,833	8,695
PV per ton						

Total				
Year	2027	2028	2029	2030
Program Benefits	\$4,730,579	\$4,772,086	\$4,794,913	\$4,856,863
Program Cost	\$180,000	\$180,000	\$175,000	\$180,000
Net Benefits	\$4,550,579	\$4,592,086	\$4,619,913	\$4,676,863
Tons avoided through recycling	40,781	41,139	41,335	41,870
4/22/11 12:46 PM				
New Programs				
77 Bans beyond ABC 2014				
Year	2027	2028	2029	2030
Program Benefits	\$1,780,762	\$1,796,369	\$1,804,955	\$1,828,273
Program Cost	\$45,000	\$65,000	\$45,000	\$45,000
Net Benefits	\$1,735,762	\$1,731,369	\$1,759,955	\$1,783,273
Tons avoided through recycling	15,351	15,486	15,560	15,761
PV per ton	13,331	13,400	13,300	13,701
•				
78 Bans beyond ABC 2013	222	2222	2222	
Year	2027	2028	2029	2030
Program Benefits	\$345,002	\$348,020	\$349,682	\$354,198
Program Cost	\$65,000	\$45,000	\$45,000	\$65,000
Net Benefits	\$280,002	\$303,020	\$304,682	\$289,198
Tons avoided through recycling	2,974	3,000	3,014	3,053
PV per ton				
80 Deconstruction Single Famil				
Year	2027	2028	2029	2030
Program Benefits	\$511,269	\$515,778	\$518,254	\$524,953
Program Cost	\$30,000	\$30,000	\$30,000	\$30,000
Net Benefits	\$481,269	\$485,778	\$488,254	\$494,953
Tons avoided through recycling	4,407	4,446	4,468	4,525
PV per ton				
81 Voluntary Assessment				
Year	2027	2028	2029	2030
Program Benefits	\$985,185	\$993,873	\$998,644	\$1,011,552
Program Cost	\$20,000	\$20,000	\$20,000	\$20,000
Net Benefits				\$20,000
	\$965,185	\$973,873	\$978,644	\$991,552
Tons avoided through recycling	\$965,185 8,493	\$973,873 8,568	\$978,644 8,609	
Tons avoided through recycling PV per ton				\$991,552
PV per ton				\$991,552
PV per ton 92 ABC BAN	8,493	8,568	8,609	\$991,552 8,720
PV per ton 92 ABC BAN Year	8,493 2027	8,568 2028	8,609 2029	\$991,552 8,720 2030
PV per ton 92 ABC BAN Year Program Benefits	8,493 2027 \$92,102	8,568 2028 \$92,869	8,609 2029 \$93,298	\$991,552 8,720 2030 \$94,498
PV per ton 92 ABC BAN Year Program Benefits Program Cost	2027 \$92,102 \$5,000	2028 \$92,869 \$5,000	2029 \$93,298 \$5,000	\$991,552 8,720 2030 \$94,498 \$5,000
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits	8,493 2027 \$92,102	8,568 2028 \$92,869	8,609 2029 \$93,298	\$991,552 8,720 2030 \$94,498
PV per ton 92 ABC BAN Year Program Benefits Program Cost	2027 \$92,102 \$5,000 \$87,102	2028 \$92,869 \$5,000 \$87,869	2029 \$93,298 \$5,000 \$88,298	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton	2027 \$92,102 \$5,000 \$87,102	2028 \$92,869 \$5,000 \$87,869	2029 \$93,298 \$5,000 \$88,298	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 94 Facility Certification	2027 \$92,102 \$5,000 \$87,102 794	2028 \$92,869 \$5,000 \$87,869 801	2029 \$93,298 \$5,000 \$88,298 804	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498 815
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 94 Facility Certification Year	\$,493 2027 \$92,102 \$5,000 \$87,102 794	2028 \$92,869 \$5,000 \$87,869 801	2029 \$93,298 \$5,000 \$88,298 804	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498 815
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 94 Facility Certification Year Program Benefits	2027 \$92,102 \$5,000 \$87,102 794 2027 \$1,016,258	2028 \$92,869 \$5,000 \$87,869 801 2028 \$1,025,176	2029 \$93,298 \$5,000 \$88,298 804 2029 \$1,030,080	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498 815 2030 \$1,043,389
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 94 Facility Certification Year Program Benefits Program Cost	2027 \$92,102 \$5,000 \$87,102 794 2027 \$1,016,258 \$15,000	\$,568 2028 \$92,869 \$5,000 \$87,869 801 2028 \$1,025,176 \$15,000	\$,609 2029 \$93,298 \$5,000 \$88,298 804 2029 \$1,030,080 \$30,000	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498 815 2030 \$1,043,389 \$15,000
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 94 Facility Certification Year Program Benefits Program Cost Net Benefits	2027 \$92,102 \$5,000 \$87,102 794 2027 \$1,016,258 \$15,000 \$1,001,258	2028 \$92,869 \$5,000 \$87,869 801 2028 \$1,025,176 \$15,000 \$1,010,176	\$,609 \$93,298 \$5,000 \$88,298 804 2029 \$1,030,080 \$30,000 \$1,000,080	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498 815 2030 \$1,043,389 \$15,000 \$1,028,389
PV per ton 92 ABC BAN Year Program Benefits Program Cost Net Benefits Tons avoided through recycling PV per ton 94 Facility Certification Year Program Benefits Program Cost	2027 \$92,102 \$5,000 \$87,102 794 2027 \$1,016,258 \$15,000	\$,568 2028 \$92,869 \$5,000 \$87,869 801 2028 \$1,025,176 \$15,000	\$,609 2029 \$93,298 \$5,000 \$88,298 804 2029 \$1,030,080 \$30,000	\$991,552 8,720 2030 \$94,498 \$5,000 \$89,498 815 2030 \$1,043,389 \$15,000