

Tennis Sanitation, LLC

Proposal for the

City of Edina, MN

For

Residential Curbside Recycling Services

RFP- Dated March 20, 2012

Prepared By:

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Introduction:

The purpose of this document is to provide the City of Edina a proposal for their Residential Curbside Recycling Services along with an overview of Tennis Sanitation, LLC and their sub, Buckingham Trucking Inc. We want to illustrate the benefits associated with a cost/value of a Contract with Tennis Sanitation, LLC at our locations in St. Paul Park, MN and with their sub's location in Prior Lake, MN along with the value we would bring to the residents of Edina.

Tennis Sanitation, LLC has over 46 years in the trash business and Buckingham Trucking Inc. has over 44 years of experience in the trash business. Between the two companies, we have 90 years of experience with 100% redundancy in capacity, facilities and trucks to support this effort. To create the most efficient and greatest value recycling solution for the residents of Edina, Tennis Sanitation, LLC will be the prime supplier with Buckingham Trucking Inc. working as a sub. Tennis Sanitation, LLC will provide the City of Edina with one point of contact for the contract, billing, and training; while the city enjoys the value created by Tennis Sanitation, LLC and their sub Buckingham Trucking Inc.

It is our goal to promote and encourage all residents in the City of Edina to recycle as much trash as possible. To accomplish this objective, we are proposing only Single Sort (Single-Stream Collection) on either a weekly or bi weekly collection basis. We have found that the Single-Stream allows our company the ability to achieve residuals of less than 3%, given the flexibility of our facilities, storage capacity and ease to the customer for recycling, thus promoting recycling.

Responding to the City of Edina's RFP, we have assembled this proposal to address the questions identified in the RFP in the manner they were addressed. In an effort to ensure that this proposal is easily followed, the table of contents outlines our responses requested in the RFP.

This proposal details the benefits of selecting Tennis Sanitation, LLC and their sub, Buckingham Trucking Inc. This includes our processes, and the wide variety of additional trash materials that are now on our recycling list along with the option of weekly or bi-weekly pick up.

A section was added in this proposal outlining the Evaluation Criteria from the City of Edina's RFP, which allows us to identify where those specific items are called out in our proposal.

Lastly, Tennis Sanitation, LLC and their sub, Buckingham Trucking Inc. are proposing only a Single Sort (Single-Stream Collection) with the option of weekly or bi-weekly pick up and we take no exception to the RFP commercialization terms and legal requirements.

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Section 1.0 Executive Summary for Residential Curbside Recycling Services

Tennis Sanitation, LLC recycling has been in continuous operation in St. Paul Park, MN for the past 22 years. Buckingham Trucking Inc. recycling has been in continuous operation in Prior Lake, MN for the past 24 years. Together Tennis Sanitation, LLC and their sub have over 45-years of recycling experience and 100% redundancy in trucking personnel and recycling facilities.

Tennis Sanitation, LLC was started by John, Joan and Wayne Tennis in 1966 as a single hauler and has grown to over 55 Semi-Automated Pick up Vehicles and 11 acres of Support Buildings, including: Offices, Training Facilities, Shops, Recycle Center, Wash Bay, Storage Facilities, Roll Dumpsters and Truck Scale.

Buckingham Trucking, Inc.

- Tom Buckingham started in the disposal business when he was a senior at Burnsville High School. During afternoons and on weekends he picked up trash in his hometown emptying 55 gallon burner barrels from customers backyards (as custom in those days). He said his father was the person who provided the inspiration and encouragement to build his company to what it is today. Elmer and Rose Buckingham assisted with their son's business into the late 1990s.
- Tom Buckingham states, "There have been numerous changes in the solid waste disposal business since I started over 44 years ago." It is an industry that is constantly changing and new plans for disposing of solid waste will affect our customers and us. The company includes a newsletter with their billing to inform customers about changes in rules that will affect their service.

To create the most efficient and highest value recycling solution for the residents of Edina, Tennis Sanitation, LLC will be the prime supplier with Buckingham Trucking Inc. working as a sub to Tennis Sanitation, LLC. The City of Edina will have only one point of contact for the contract including billing, and training, while enjoying the value created by Tennis Sanitation, LLC and their sub Buckingham Trucking Inc.

Existing Capacity:

Tennis Sanitation, LLC - Recycling Center in St. Paul Park has the ability to handle 1,200 tons a week in recycled collections. Presently the recycling center handles around 250 tons. It has been estimated that the facility is running at around 55 to 60% capacity in an 8 hour day, with the ability to add a second shift if needed.

Buckingham Trucking Inc – Recycling Center is currently processing about 84 tons a week, with the capability of processing 140 tons a week with the facility operating around 60% capacity, including a planned expansion in July. Buckingham will be able to do an additional 224 tons a week, bringing the total weekly capabilities to 364 tons a week. This change puts Buckingham at 25% of capacity in an 8 hour day with the option of adding a second shift still available.

Section 1.0 Executive Summary for Residential Curbside Recycling Services (cont.)

Existing On Site Storage:

Tennis Sanitation, LLC - In the event of any Recycling Center issues, Tennis Sanitation, LLC has the facility to store a weeks worth of recycled collections and the ability to bring recycled materials to Buckingham Trucking, Inc. Additionally, the Single Sort (Single Stream) process has 100% redundancy for all of Edina's needs and the flexibility to provide alternatives in the recycling process in the event of an issue.

Buckingham Trucking Inc. - In the event of any Recycling Center issues, Buckingham Trucking, Inc. has the facilities to store a weeks worth of recycled collections and the ability to bring recycled materials to Tennis Sanitation, LLC. Additionally, the Single Sort (Single Stream) process has 100% redundancy for all of Edina's needs and the flexibility to provide alternatives in the recycling process in the event of an issue.

Locally Owned and Family Run:

Tennis Sanitation, LLC has been owned and operated by the Tennis Family for the past 46 years and Buckingham Trucking Inc. has been owned and operated by the Buckingham Family for the past 44 years. Together Tennis Sanitation and their sub have 90 years of continued experience. Both organizations are technical and sophisticated sanitation and recycling businesses managed by local community personnel (Greg Tennis, Willie Tennis and the Buckingham Family.)

Plan to Minimize Residuals:

- Tennis Sanitation, LLC and their sub have continued to increase the number of acceptable recyclable items, thereby minimizing residuals. (See Section #4.2 that outlines 22 categories of recyclable materials.)
- Section #4.2 also outlines our plan in writing.

Local Communities Served:

- Cottage Grove, MN
- Denmark Township, MN
- Newport, MN
- Oakdale, MN
- St. Paul Park, MN
- Woodbury, MN
- Maplewood, MN
- Birchwood, MN
- Falcon Heights, MN
- Savage, MN
- Prior Lake, MN
- Burnsville, MN
- Elko/New Market, MN
- Eden Prairie, MN

Section 1.0 Executive Summary for Residential Curbside Recycling Services (cont.)

Benefits and Advantages:

The benefits and advantages that the City of Edina will realize by utilizing Tennis Sanitation, LLC and their sub are as follows:

1. Cost competitiveness in the industry
2. Guaranteed Shared Revenue, to the City of Edina on a monthly basis
3. The proximity of the City of Edina to the Recycle Center located in St. Paul Park, MN and Prior Lake, MN
4. Single Sort Recycling Process:
 - o With Single Sort - no customer sorting, which is easier and creates higher yields as a result of simplicity for the end user
 - o Larger Storage Capacity
 - o Ability to pick up weekly or biweekly
 - o Reduced Landfill through greater effectiveness in recycling
5. Reduce Residuals – Plan outlined in Section 4.3
6. Increase the number of recyclable items from textiles to paper and corrugate to metals.
7. Commitment to Community and the Environment
8. All materials picked up are either recycled or converted to electricity at the RRT, Inc. Plant in Newport, MN. (RRT, Inc: Newport, MN Resource Recovery Facility, converts Waste-to-Energy at their facilities in Minnesota, serves the electrical needs of 100,000 residential homes locally.)
9. The distance from the Tennis Sanitation, LLC Recycle Center to the RRT, Inc. Energy Recovery Plant is about two (2) miles and there is an RRT drop location near Buckingham Trucking Inc. facility that transfers waste to the RRT.
10. Customer-Oriented with 90-years of serving the community locally for trash and recycled materials.

Materials to Be Collected:

There is a wide variety of materials, glasses, plastics and papers/corrugates that will be recycled. A comprehensive list of over 22 major categories of recyclable materials is included in Section #4.2 of this proposal.

The reason for Tennis Sanitation, LLC (and Buckingham Trucking, Inc.) years of success is based on hard work, customer orientation, re-investment back into their perspective businesses, employees, utilization of a single sort / single stream recycling process, commitment to the community and environment along with low overhead that allows Tennis Sanitation, LLC (and Buckingham Trucking Inc.) to remain competitive in cost effectiveness and efficiency in these communities.

Tennis Sanitation, LLC is proposing Single Sort (Single Stream) with the option of weekly or bi-weekly pickups and we take no exception to the RFP commercialization terms and requirements.

Visit our website at: www.tennissanitation.com

Section 2.0 Benefits of Single Sort (Single Stream) System

The benefits of single sort (single stream) recycling services on a weekly or biweekly schedule are numerous for the Residents of Edina, the City of Edina, and the Environment.

Resident Benefits:

- No Sorting – Single Sort
 - Ease of use – Historically we can show that residents can decrease garbage container size and cost due to more products being recycled.
- Additional Capacity & Flexibility between Pick Ups
 - The use of a single sort, 65-gal Cart allows more room for recyclable materials and allows the residence more flexibility between pick ups and space/storage for materials to be recycled.
- Reduction in Trash Removal and Landfill
 - Past experience suggests the conversion from the 14-gal Recycle Bin to a 65-gal Cart and single stream approach has resulted in an approximately 25% reduction in waste hauling as a result of the added ease and more available storage, while also increasing recycled materials.
- 65-gal Carts with Lids and Wheels
 - Easier than 14-gal Recycle Bin for Residents to haul to the street
 - Contents are covered for improved curb appeal
 - Less likelihood of recycled product blowing out of the container
 - Increased storage capacity
 - Ergonomically easier to get carts to and from the curb

City Benefits:

- No Sorting – Single Sort
 - Increased participation which results in increased tonnage
- Reduction in Trash Removal and Landfill
 - Experience suggest, the conversion from the 14-gal Recycle Bin to a 65-gal Cart and single stream approach has resulted in an approximately 25% reduction in waste hauling as a direct result of the added ease and more available storage, while also increasing recycled materials.
- 65-gal Carts with Lids and Wheels
 - Contents are covered for improved curb appeal
 - Less likelihood of recycled product blowing out of the container

The Environment Benefits:

As a result of the Single Sort Automation at Tennis Sanitation, LLC and their sub, both of these companies have been able to obtain residuals of less than 3% with the use of Automated Equipment and Manual Intervention at the recycling centers.

- Ease – Improved ease for the customer to recycle materials given the large containers.
- Reduced Landfill – As a result of increased recycling.
- As a result of Tennis Sanitation, LLC and their sub's (Buckingham Trucking Inc.) commitment to the Local Community, with a strong emphasis on Environmental and Community needs, the community also takes on the increased role of stewardship of the environment.

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Section 3.0 Economic - Rate Sheet for Single Sort Weekly and Bi-Weekly Proposal

RFQ Attachment B: Price Worksheets Responses

RFQ Attachment B.1.1 Proposed Percent Revenue Share by Commodity:

Response: We want to offer a flat rate of 25 cents per household/unit per month for Revenue Sharing. We used our 2011 pricing with Edina's 2011 Tonnage and the revenue sharing option came out to equal 25 cents (per house hold per month.) We feel a flat rate would be better for Edina because they will know exactly how much revenue sharing they will receive regardless of fluctuating prices determined by volume and market.

Note: 25 cents will be guaranteed as a minimum for 2016-2019 and it will be increased if markets allow.

RFQ Attachment B.1.2 Proposed Processing Fees by Commodity

Response: Our processing fee will be \$88.00 per ton for all materials. This will cover the years 2013-2019.

RFQ Attachment B.2.1.1

Year	Price per Curbside CDU per Month
2013 - 2015	\$ N/A - Option does not allow for maximum recycling

RFQ Attachment B.2.1.2

Year	Price per Curbside CDU per Month
2013 - 2017	\$ N/A - Option does not allow for maximum recycling

RFQ Attachment B.2.1.3

Year	Price per Curbside CDU per Month
2013 - 2019	\$ N/A - Option does not allow for maximum recycling

Section 3.0 Economic - Rate Sheet for Single Sort Weekly and Bi-Weekly Proposal (cont.)

Single Sort Bi-Weekly Proposal:

RFQ Attachment B.2.2.1

Year	Price per without Revenue Sharing Curbside CDU per Month	Price per with Revenue Sharing Curbside CDU per Month
2013	\$ 2.75	\$ 3.00
2014	\$ 2.75	\$ 3.00
2015	\$ 2.75	\$ 3.00

RFQ Attachment B.2.2.2

Year	Price per without Revenue Sharing Curbside CDU per Month	Price per with Revenue Sharing Curbside CDU per Month
2013	\$ 2.75	\$ 3.00
2014	\$ 2.75	\$ 3.00
2015	\$ 2.75	\$ 3.00
2016	\$ 3.25	\$ 3.50
2017	\$ 3.25	\$ 3.50

RFQ Attachment B.2.2.3

Year	Price per without Revenue Sharing Curbside CDU per Month	Price per with Revenue Sharing Curbside CDU per Month
2013	\$ 2.75	\$ 3.00
2014	\$ 2.75	\$ 3.00
2015	\$ 2.75	\$ 3.00
2016	\$ 3.25	\$ 3.50
2017	\$ 3.25	\$ 3.50
2018	\$ 3.75	\$ 4.00
2019	\$ 3.75	\$ 4.00

Section 3.0 Economic - Rate Sheet for Single Sort Weekly and Bi-Weekly Proposal (cont.)

RFQ Attachment B.3.1 Proposer Alternative

Single Sort (Alternative Proposal) Weekly Proposal:

RFQ Attachment B.2.2.1 (Alternative Proposal)

Year	Price per without Revenue Sharing Curbside CDU per Month	Price per with Revenue Sharing Curbside CDU per Month
2013	\$ 3.25	\$ 3.50
2014	\$ 3.25	\$ 3.50
2015	\$ 3.25	\$ 3.50

RFQ Attachment B.2.2.2 (Alternative Proposal)

Year	Price per without Revenue Sharing Curbside CDU per Month	Price per with Revenue Sharing Curbside CDU per Month
2013	\$ 3.25	\$ 3.50
2014	\$ 3.25	\$ 3.50
2015	\$ 3.25	\$ 3.50
2016	\$ 3.75	\$ 4.00
2017	\$ 3.75	\$ 4.00

RFQ Attachment B.2.2.3 (Alternative Proposal)

Year	Price per without Revenue Sharing Curbside CDU per Month	Price per with Revenue Sharing Curbside CDU per Month
2013	\$ 3.25	\$ 3.50
2014	\$ 3.25	\$ 3.50
2015	\$ 3.25	\$ 3.50
2016	\$ 3.75	\$ 4.00
2017	\$ 3.75	\$ 4.00
2018	\$ 4.25	\$ 4.50
2019	\$ 4.25	\$ 4.50

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Section 4.0 Environmental Impact

4.1 Processing Locations & Environmental Impact

The Location: Tennis Sanitation, LLC will provide Recycling Collection Services for the City of Edina, MN out of their St. Paul Park, MN location, located at 720 4th Street St. Paul Park, MN 55071 and their sub Buckingham Trucking Inc. will provide their Recycling Collection Services from their Prior Lake, MN location.

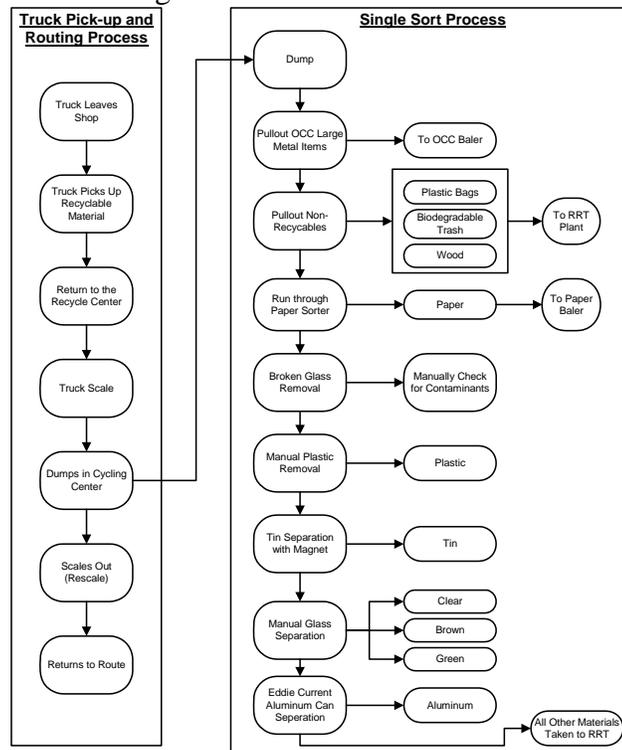
Tennis Sanitation, LLC's location covers 11 acres of Support Buildings including: Offices, Training Facilities, Shops, Recycle Center, Wash Bay, Storage Facilities, Roll Dumpsters and Truck Scale.

Buckingham Trucking Inc.'s location covers 2.9 acres of Support Buildings including: Offices, Training Facilities, Recycle Center, Wash Bay, Storage and Maintenance Facilities, Dumpsters and Truck Scale.

Facility Capacity:

- Tennis Sanitation, LLC Recycling Center in St. Paul Park (with a 5-day work week), has the ability to handle 1,200 tons a week in recycled collections. Presently the recycling center handles around 750 tons a week. It has been estimated the facility is running at around 55 to 60% capacity.
- Buckingham Trucking Inc. Recycling Center is currently processing about 84 tons a week, with the capability of processing 140 tons a week with the facility operating around 60% of capacity. Including a planned expansion in July, Buckingham will be able to do an additional 224 tons a week, bringing the total weekly capabilities to 364 tons a week. This change puts Buckingham at 25% of capacity in an 8 hour day with the option of adding a second shift still available.

The Single Sort Process is detailed below



All materials picked up are recycled or converted to electricity at the RRT, Inc. Plant in Newport (RRT, Inc. Newport, MN Resource Recovery Facility, Converts Waste-to-Energy at their facilities in Minnesota, serves the electrical needs of 100,000 residential homes locally.)

Section 4.0 Environmental Impact (cont.)

4.1 Processing Location & Environmental Impact (cont.)

The benefits of single sort (single stream) recycling services will positively impact the environment as a result of the ease to the Residents. We have historically seen an increase in recycled products around 25% to 30% when converting to Single Sort, which in turn reduces the landfill by an equal amount.

Environmental Benefits of Single Sort:

- **No Sorting – Single Sort**
 - Ease of use – residents will decrease garbage container size and cost due to reduction in trash with more products being recycled.
- **Additional Capacity & Flexibility between Pick Ups**
 - The use of a single sort, 65-gal cart allows more room for recyclable materials. It allows the residents more flexibility between pick ups and space/storage for materials to be recycled.
- **Reduction in Trash Removal and Landfill:**
 - Past experience suggests, the conversion from the 14-gal recycle bin to a 65-gal cart and single stream approach has historically **resulted in an approximately 25% to 30% reduction in waste hauling.** It also adds ease and more available storage, while increasing recycled materials.
 - A **continuous stream of recycled materials** allows for better automation and higher yields of recycled products, along with increased tonnage. This makes it more cost effective to recycle more materials.
 - A single sort method **assists in changing the behavior** of the residents (consumers) to want to recycle more materials, when recycling is made easier with larger containers and the elimination of creating sorted piles that have to be hauled to curb weekly.
- **Facts from - Recycling Renovation Web Site:**
 - **Aluminum:**
 - Used aluminum beverage cans are the most recycled item in the U.S., but other types of aluminum, such as siding, gutters, car components, storm window frames, and lawn furniture can also be recycled.
 - More aluminum goes into beverage cans than any other product.
 - **Paper:**
 - To produce each week's Sunday newspapers, 500,000 trees must be cut down.
 - Recycling a single run of the Sunday *New York Times* would save 75,000 trees.
 - If all our newspaper were recycled, we could save about 250,000,000 trees each year!
 - **Glass:**
 - Every month, we throw out enough glass bottles and jars to fill up a giant skyscraper. All of these jars are recyclable!
 - The energy saved from recycling one glass bottle can run a 100-watt light bulb for four hours or a compact fluorescent bulb for 20 hours. It also causes 20% less air pollution and 50% less water pollution than when a new bottle is made from raw materials.
 - **Plastic:**
 - Americans use 2,500,000 plastic bottles every hour! Most of them are thrown away!
 - Recycling plastic saves nearly double the energy as it would cost to burn it in an incinerator.

Section 4.0 Environmental Impact (cont.)

4.2 List of Materials proposed to be collected

Plan to Reduce Residuals and Add More Acceptable Recyclable Items:

In an effort to promote and encourage all residents in the City of Edina to recycle as much product as possible, Tennis Sanitation, LLC and their sub will include the following items to be recycled, thus reducing the residuals.

Textiles:

- Clothes & Linens
- Shoes & Boots

Paper and Corrugate:

- Egg cartons, Milk cartons, Juice boxes
- Corrugated Cardboard – (No collapsing of cardboards will be required)
- News and Office Papers
- Magazines, Junk Mail and Paper Food Boxes
- Coated Magazines and Catalogs
- Phone Books, Paper Backs, T.V. Guides, Comic Books, Readers Digest Covers, Flyers and Brown Paper
- The 4 C's: Cereal, Cake Mix, Chip and Cracker Boxes
- Pop, Beer and Tissue Boxes
- Pizza boxes

Plastic #1 through #7:

- All Plastic with a Recycle Symbol of 1 through 7
- All Plastic Containers that Shrubs, Flowers and Trees come in
- Plastic Tubs (Yogurt, Sour Cream and etc.)
- Plastic Toys
- Motor Oil Bottles (That have been drained)

Glass:

- All Food, Beverage and Jams Glass Bottles (Clear, Brown and Green)

Metals:

- Aerosol Cans
- Scrap Metal in Household quantities (Silverware, Hangers, Pots, Pans, or any metals that fit in cart)
- All beverage cans that are aluminum
- All Food and Beverage cans and other cans that are Steel (Tin, Aluminum, Bi-metal)

Items Not Accepted:

- Styrofoam, Plastic Bags, Garbage, Window Glass, Ceramics, Dishware, Mirrors, Light Bulbs, Vinyl Siding, Motor Oil, Hazardous Waste

Section 4.0 Environmental Impact (cont.)

4.3 Processing Residuals – Plan to Minimize Residuals

Tennis Sanitation, LLC is committed to reducing residuals in the collectables, while promoting and encouraging all residents in the City of Edina to recycle as much product as possible. Here is how we plan to achieve these objectives.

Plan to Reduce Residuals:

Educational Documentation:

One of the methods to be utilized by Tennis Sanitation, LLC will be through educational materials including:

- 3-Fold Flyers
- Notification Tags for items not acceptable that are issued by the drivers

Energy Recover at the RRT Facility:

All materials picked up are either recycled or converted to electricity at the RRT, Inc. Plant in Newport, MN (RRT, Inc: Newport, MN Resource Recovery Facility, converts Waste-to-Energy at their facilities in Minnesota, serves the electrical needs of 100,000 residential homes locally.)

This allows Tennis Sanitation to keep their residuals to below 1%.

Energy Recovery of Wood:

- Wood that is recovered and not contaminated is used in the shop stove to offset natural gas heating costs in the winter and to warm the shop.
- Wood that has been contaminated and/or unmanageable will be sent to the RRT, Inc. Resource Recovery Plant in Newport to be converted into electricity.

4.4 Proposer's Current Steps to Reduce Air Pollution from Vehicles

To reduce air pollution from vehicles, Tennis Sanitation, LLC and their sub first need to be aware of what is new in the industry and what is new at the Minnesota Pollution Control Agency. While the ideas and technologies are continuing to change, we at Tennis Sanitation, LLC and their sub realize working diligently together on reducing air pollution from vehicles results directly to their efficiency and thus positively affects their bottom line.

Some of the processes that Tennis Sanitation, LLC and Buckingham Trucking Inc. have in place to assist in meeting their objectives in reducing air pollution are as follows:

- Optimization of routes and re-evaluation of routes given changing traffic flows as a result of the ever changing road construction projects in Minnesota
- Our close proximity to our customers
- Continued review of Fuels with our Fuel Consultant on an annual basis
- Continued burning of cleaner fuels
- Continued focus on truck maintenance
- Continued review of industry strategies to reduce diesel emissions
- Continued reviewing and implementation of pollution control equipment, implementation of idle reduction technologies and replacement of older engines
- Continued work with our vehicle engine manufacturers and third party suppliers to incorporate new fuel saving technologies that in turn reduce air pollution

Section 4.0 Environmental Impact (cont.)

4.5 Proposer's Current Efforts and Future Plans to Reduce Greenhouse Gas Emissions

Project Green Fleet:

- Project Green Fleet, is a collaborative effort among businesses, government agencies and non-profit organizations to improve air quality and protect public health by reducing emissions from Minnesota's school buses and other diesel vehicles. Vehicles with diesel engines represent only 10% of traffic on Minnesota roads, but contribute to more than 50% of air pollution generated by vehicles in the state.
- Project Green Fleet implements a range of strategies to reduce diesel emissions including installation of pollution control equipment, implementation of idle reduction technologies and replacement of older engines with new cleaner running engines.
- All of these strategies are provided for little to no cost.
- Tennis Sanitation, LLC is installing In Drive Hydraulic Pumps on our trucks. This enables us to run the arm and pack the load while the engine is in idle, thus resulting in less fuel usage, less noise and less fumes/exhaust.
- Buckingham Trucking, Inc. is purchasing two (2) new recycling trucks equipped with high efficiency diesel engines that are equivalent to compressed natural gas engines.

Alternate Fuels:

- As fuel, equipment and labor are some of our larger cost drivers (variable costs), we are limited in our options regarding equipment and labor; however, given the large fluctuations over the years in fuel, Tennis Sanitation, LLC continues to look at alternative fuels such as natural gas.
- We continue to review the benefits of Biodiesel and other reduction of Greenhouse gasses as the technology and alternate fuels become available.

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Section 5.0 Educational Materials and Methods

Tennis Sanitation, LLC and their sub believe strongly in recycling. A recycling center was opened in 1992 in St. Paul Park as a result of the negative impact trash hauling was having on filling up land fills.

It has been the goal of Tennis Sanitation, LLC and Buckingham Trucking, Inc. to promote and encourage all consumers to recycle as much product as possible.

To accomplish this, we are proposing single sort (single-stream collection) system with either weekly or bi-weekly collections. Single sorting alone would not accomplish this goal. Consumers must be encouraged to recycle through an easy process to recycle. Tennis Sanitation, LLC has developed a **5-Point Method** to accomplish our environmental recycling goal. The steps are as follows:

- 1. Make Recycling Fun and Easy / Improved Curb Appeal** through the use of 65-gal carts
- 2. Educate the Community on the value of Recycling** through Community Events and Participation in Annual Meetings
- 3. Educate the customers using** methods such as:
 - 3-Fold Flyers
 - Our Web Site
 - Notification when list of recyclable materials expands to include new materials (This past year we added 6 new recyclable items to the list)
 - Driver education and customer orientation
 - Utilization of educational tags left on the carts
 - Response to questions
 - Phone and Customer Service Support
- 4. Offer Tours** at no cost to the community. We encourage customer visitation to the recycling center during operating hours. This is being done with the following groups today, with plans for future expansion:
 - Boy Scouts
 - Girl Scouts
 - Communities Environmental Advisory Commissions
 - Church Groups
 - Youth Groups
- 5. Lead by example**, by being good environmental stewards we go out of our way to utilize recycled materials ourselves. We continuously implement improvements to our processes, utilize 100% of the materials collected and provide guaranteed shared revenue to the City.

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Section 6.0 Qualifications

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C)

1. Provide a list of acceptable materials you are currently able to collect, process and market, other than the listed materials the City requires in the RFP. Do you have any concerns about the City's list of designated recyclables?

Response:

Please see section 4.2 for a full list of acceptable materials covering some 22 categories. We have no concerns regarding the City's list of designated recyclables.

2. Provide clear descriptions of the means used to calculate monthly recycling tonnage. For example, will you collect Edina loads of residential curbside recyclables separate from other customers? Will you weigh each load? If not, state any other assumptions, sources of data, and methods of calculation (e.g., average recovery rates in pounds per household served or pounds per stop).

Response:

We will have recycling trucks designated just for the city of Edina's residential curbside recycling; each truck will be weighed at the beginning of the day empty and at the end of the route (full) to get exact weights.

3. Describe your interest and capability of adding materials in the future. Please note the types of materials that may be included in the future.

Response:

Since we started recycling we have added many materials (such as: #3-7 plastics, clothes/linens, household scrap metal, milk cartons and juice boxes) and we are always looking for new markets. We are currently studying a new program options for recycling plastic bags.

4. Describe what you propose as plans for education to better the quality of the program, to increase participation and volume of materials collected, both initially and over the term of this contract.

Response:

Our educational plan to better the quality of this program is continuous, with an increase in participation and volume of material is to offer the City of Edina single sort recycling with 65 gal carts and weekly pick-up along with our list of many materials that we recycle and will continue looking for new markets. (See section #5.0 of this proposal for more.)

5. Describe how your company proposes to conduct set-out rates and participation studies.

Response:

Our set out and participation rates will be taken from our daily route sheets. Drivers will make note of addresses not participating in the recycling program and this daily data will be compiled at the end of each month. This data is totaled and provides us our set out and participation rates.

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

6. Please describe your proposed means to provide annual materials composition for the City.

Response:

Each year in the month of October we will designate one (1) week of the City of Edina’s curbside recycling. This one week of recycling will be processed at Buckingham’s Facility. That week we will process only the City of Edina’s curbside recycling to develop accurate annual composition report.

7. State your means to estimate process residuals from your (or subcontracted) recycling facility.

Response:

All materials are sorted then put into each separate compartment (box or bales.) Material left over will be the residuals. All materials are weighted, separated and this will give us our residuals percentile.

8. What techniques, controls and other innovations will you employ to increase efficiency and maximize material quality and revenues.

Response:

- Tennis Sanitation, LLC and Buckingham Trucking Inc. incorporate a local process engineering firm to implement LEAN Manufacturing operational strategies and continuous process improvements.
- Both Firms incorporate a number of resources to optimize truck and fuel optimization and are always looking to improve fuel usage by installing external hydraulic pump systems for the automated loading and dumping system.

9. Provide an estimate of the relative amounts (in percent of total) of all residential container glass collected (all colors) by type of end use:

RECYCLED (by definition of recycling in Minnesota Statutes) including recycling into glass containers = ____%

BENEFICIALLY USED (by definition and rules of the MPCA) such as fiberglass, sand-blast and aggregate for construction projects (e.g., as gravel base for roads) = ____%

RECOVERED using other applications including alternative daily cover (ADC) or other use of aggregate for utilities (e.g., gas or leachate collection) at landfills= ____%; and

DISPOSED into landfills whether as a separate material (e.g., mixed, broken glass only) or a part of the mixed process residuals from the recycling facility = ____%.

Response:

Please see Appendix M for all information regarding Glass recycling provided by vendor.

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

10. The City plans to expand its list of types of plastics to be recycled to be consistent with the new Hennepin County recycling funding policy (as adopted November 2011). To help the City evaluate the relative strength of your plastic markets, provide an estimate of the relative amounts used by domestic (U.S. and Canadian) end-users for each of the following grades of plastic:

(Percent of Plastic Grade Marketed Domestically) Plastic Resin Type	Bottle Grade	Non-Bottle Grade
PETE (#1)	100%	
HDPE (#2)	100%	
PVC (#3)		100%
LDPE (#4)	100%	100%
PP (#5)	100%	

Response:

List of our Vendors:

Bedford – Hard Plastic

Prime – Pete

Cutting Edge – Z bales

MDK – Pete & Z bales

Note: We do not sell to end users.

a) Our vendors tell us that end markets don't normally give monthly certification disclosure documentation

b) We record all of our weights of incoming recyclables and out going recyclables

c) End users are not willing to pay for residuals. We are sure their residual percentage is very low because they continue to buy our product from vendors. In today's environment industries are improving the quality of their materials and concerned about the environment impact they have. (See section 4.0 for further information on Environmental impact)

11. If awarded the contract, describe how you will staff and deliver quality customer service during this Agreement. This includes, but is not limited to, collection service on the route, and customer service in the office (e.g., answering residents' call; processing invoices; reports; etc.).

Response:

We have recently put on one additional person in our office. We will have 4 trucks per day to pick-up the City of Edina's curbside recycling, two (2) will be Buckingham and two (2) will be Tennis. Edina's recycling will be processed at both Buckingham and Tennis facilities which both have the capacity to handle the load separately; however for improved service, locations, we feel the City of Edina is better served by the logistics of this organization.

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

12. Briefly describe previous recyclables collection, processing and marketing experience. Highlight experience, municipal contracts, and recycling facilities within the Twin Cities Metropolitan Area (TCMA).

Response:

Tennis Sanitation, LLC has been recycling in the open market since 1990, featuring 8 Cities plus the City of Falcon Heights and Maplewood which awarded us contracts in 2011. We developed a recycling facility in St. Paul Park, MN and has been in continuous operation since 1990.

13. Specify if and how you will change your capacity (i.e., staff, vehicle fleet and processing / marketing) to fulfill the agreement, if awarded.

Response:

We have recently added 1 person to our office staff and we will be purchasing 2 new trucks and adding 2 reconditioned trucks, with changes in workload and proper planning for growth we will add 1 driver to our staff should we be awarded this contract. Our drivers will be expensed between Buckingham's facility and ours allowing us the capabilities for Edina's processing.

14. Specify the management, supervisory and foreman staff that will be directly responsible for the operations of recycling services (i.e., collection, processing and marketing). Resumes of key individuals may be included, limited to one page per individual.

Response:

Greg (owner) will take care of mapping routes, drivers, and carts. Willie (owner) will take care of recycling facility and marketing. Stacy (Greg's daughter) will take care of office calls, complaints, monthly reports, annual reports. Jesse (Willie's son) will take care of trucks. Nick (recycling facility manager) will take care of recycling employees & equipment.

15. Describe plans for processing and marketing recyclables collected.

Response:

Tennis & Buckingham both have our own recycling facilities where Edina's recycling will be processed and marketed.

16. State your company safety philosophy. Provide written, signed confirmation that all required safety plans are on file and available for review upon request. Include your safety manager's name and contact information (i.e., phone number, e-mail) in the proposal.

Response:

Run safe company – we have had MN Department of Labor & Industry (workplace safety consultation) out to inspect our facility. We have complied with all their recommendations. We have a company safety program in our handbook. Willie Tennis is in charge of company safety (651-459-1887) or tenissanitation@aol.com.

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

17. Describe any environmentally sustainable initiatives in the TCMA that are currently a part of your company's business operations. List any future plans for your operations in the TCMA.

Response:

- Continuing to automate and increase recycling capability, Buckingham is increasing capacity in July 2012; Tennis Sanitation is in the planning stages of doubling their capacity.
- Continue to leverage location of Tennis Sanitation and Buckingham Trucking to optimize fuel usage versus pickup.
- Continuing to promote the advantage of single sort recycling.
- Expansion of recyclable materials
- Use of automation in recycling to reduce residuals
- Through the use of 65 gal single sort carts and recycling automation and working closely with specific recycled product vendors in the TCMA.
- Taking steps to reduce air pollution from vehicles
- Focus on Green Fleet Initiatives
- Continue focus on alternative fuels that reduce costs, including engine optimization (See Environmental Section 4.0 for further details)

18. Minnesota's Global Warming Mitigation Act of 2007 commits to reducing the state's greenhouse gas (GHG) emissions by 15% by 2015. What actions will your company be taking by the end of this contract term to help achieve this goal in Minnesota? Describe your plans for reducing greenhouse gas (GHG) emissions as part of the proposed recycling services for the City of Edina. Itemize your GHG emission reduction plans in terms of the following four categories of the recycling system (listed in order of priority to the City of Edina):

- On-route, curbside collection operations in the City of Edina (e.g., route efficiencies, operator instructions and other driver policies, fleet maintenance, fuel types, and other transportation related measures directly related to curbside recycling operations).
- Recyclables materials processing operations in the TCMA (e.g., overall processing efficiencies, alternative means to reduce process residuals, facility energy efficiency, and other measures directly related to operation of your recycling facility or your subcontractor's recycling facility).
- Materials transportation to market (e.g., location of end markets, transportation logistics, etc.).
- Selection of end markets and their own efficiencies (e.g., overall production efficiencies, alternative means to reduce residuals from end use markets, etc.).

Response:

- A) New energy efficient trucks with run in gear pumps.
- B) New more efficient equipment, more markets for materials.
- C) We market almost all our materials in Minnesota, Wisconsin, & Iowa
- D) MDK & Prime

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

19. List at least three references. Provide the name, title, organization, phone number, e-mail, information, dates service provided. You are encouraged to submit up to three reference letters.

Response:

See Appendix C and E for Letters of Reference for Tennis Sanitation, LLC and Buckingham Trucking Inc. respectively.

20. Marketing to highest and best use as a recyclable material, i.e. glass to glass, plastic bottle to plastic bottle is an environmental preference. Describe how your company meets this preference.

Response:

Our glass is marketed to regional companies that do bottle to bottle. Plastics that do not meet the requirements for bottle to bottle processing are made into other useful products (example: carpet.)

21. **Description of single-sort operations details** - If you are proposing under the single-sort scenario, answer the following questions in sufficient detail:

- A) Are you proposing any changes or variances to the single-sort scenario specifications as stated in the RFP (Section 10.2)? If so, itemize those changes and fully describe the difference. Also, estimate the cost implications of the proposed change.

Response:

We are proposing weekly and/or bi-weekly pick ups so as to encourage more recycling. Residents will always have plenty of room. Recyclables will not end up in trash around the holidays when there are 8 days between pick up, especially week of Christmas. If it is not your week some recycling will be put in the trash. The cost will be 50¢ a month for 2 or more pick ups (if month has 4 or 5 pick ups)

- B) Can you make the RFP-specified start date of January 1, 2013? If not, what “change date” do you propose for start of the new single-sort recycling collection service?

Response:

We can make the specified date of Jan 1, 2013 if the city will let us pick up single sort in current city bins until March 30th.

- C) If you are submitting an alternate proposal, what size of recycling cart will be your standard or “default”?

Response:

We are proposing 65 gal carts, or 95 gal carts upon request. We prefer the larger carts to the 35 gal carts in that experience has taught us they are prone to tipping over causing a mess and hassle for the customer.

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

- D) What is your proposed policy for number of “free” cart switches that residents can make per year? If a resident exceed this number of “free” cart switches, what is your proposed administrative, handling and/or delivery cost for any switch above this free level?

Response:

One switch per year is free (size change.) More than one switch per year or if resident request clean cart will be a \$25.00 charge.

- E) What are your policies and truck-side procedures to manage prohibited items that residents may place in the recycling cart? Will your proposed single-sort operations have any public education “leave behind” tags for prohibited items? If so, attach a reference example of such a leave behind public education tag.

Response:

Our trucks are equipped with hopper cameras so the driver can see prohibited items entering the truck. Should prohibited items be discovered the driver will leave educational tag for the consumer and the driver will then make note on route sheet. The following week the driver will see the note on the route sheet and get out of the truck to inspect the carts contents, if there are prohibited items again the driver will put them back in the cart after loading and leave another tag for the consumer.

- F) What is your proposed cart color? Lid color?

Response:

We will have brown carts with orange lids.

- G) What is your proposed/example content of resident in mold label (IML) instructions to be mounted on the lid? (Please include an example in your proposal.)

Response:

We will have acceptable and non-acceptable items that will be In Molded label.



Example of In Molded Label

Sub Section 6.1 Response to RFP Statements and Questions – (Attachment C) (cont.)

- H) What is your proposed policy and procedure for pick-up and recycling of the City's old dual-sort curbside bins? Who is your proposed market for this type of plastic? Contact person, email and phone number?

Response:

Any resident that does not want old bins can place them in, on or next to cart on any Pick up week with no limit for the benefit of the resident.

Company – Bedford Technology

Contact person – Dave Scott

Phone number – 507-372-5531

- I) What is your proposed list of single-sort public education tools? Please describe in sufficient detail and include examples from other existing City programs.

Response:

Please see new customer brochure, education tag in Appendix H and I for the examples of Tennis Sanitation, LLC's educational tools. The brochure in Appendix H will be mailed yearly and provided to new customers per the City of Edina's request. The educational tag in Appendix I will be attached to the cart when inappropriate materials are left in the recycling cart.

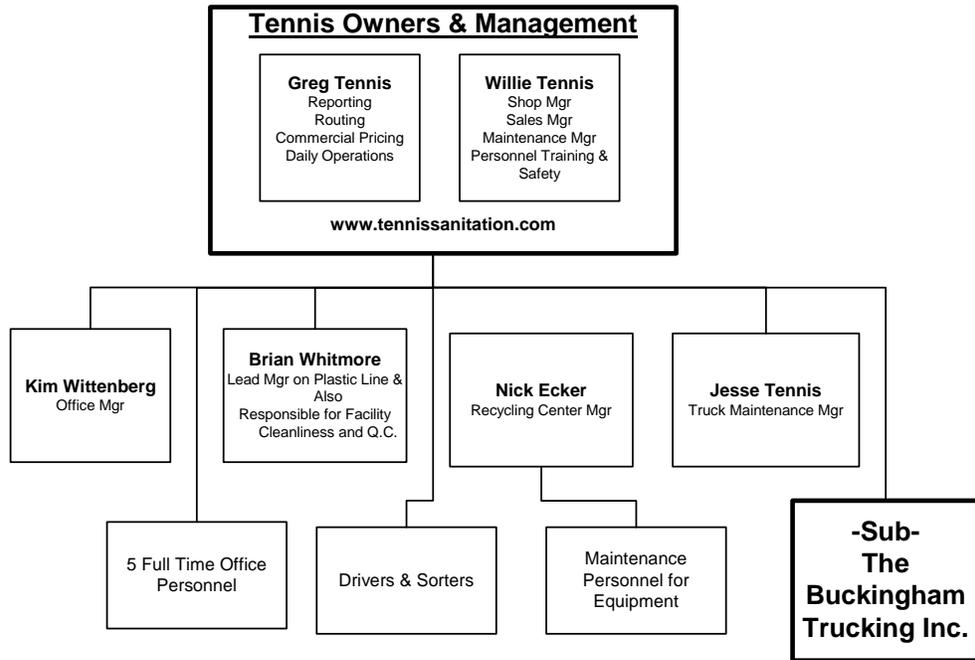
Section 7.0 Statement as to Any Litigation in the Past 5 Years

Tennis Sanitation, LLC has had no litigations for the past five (5) years. Tennis Sanitation, LLC's sub, Buckingham Trucking Inc. has had no litigations in the past five (5) years and both companies are willing to submit an avadavat to this fact.

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Section 8.0 Organization and Personnel Contacts

The following is Tennis Sanitation, LLC Organization and Key Contact information.



Tennis Sanitation, LLC Organization Chart

Personnel Contacts:

Title	Name	Phone	Alternate Phone
Route Supervisor	Greg Tennis	(651) 459-1887	or (651) 459-6209
Dispatcher	Group of 5	(651) 459-1887	
24-Hour Service Line	Answering System	(651) 459-1887	

Note:

- All vehicles are equipped with 2-way radios
- Website request go to: www.tenissanitation.com
- To contact any of Tennis Sanitation, LLC’s personnel and/or their sub will be through the contact list above, thus providing One-Point-Of-Contact for the City of Edina.

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Section 9.0 Experience in Providing Recycling Services at Community Events

Tennis Sanitation, LLC has years of community support in recycling. See Appendix L for a letter from the **Minnesota Department of Natural Resources** thanking Tennis Sanitation, LLC and a number of other volunteers for help in the area of community service.

We also participate in a number of other community events. Below is a partial list of the past year:

- St. Paul Park Heritage Days
- Cottage Grove Strawberry Fest
- Newport Pioneer Days
- St. Paul Park Athletics Association Aluminum Can Drive
- Earth Day Recycling Event (Woodbury's Spring Clean-up)
- Church Events:
 - St. Thomas Aluminum Can Drive
 - St. Rita's Aluminum Can Drive
- Facility Tours to Community Groups such as:
 - Boy Scout Troops
 - Girl Scout Troops
 - Woodbury's Environmental Advisory Commission (EAC)
- Holiday Train in Cottage Grove
- Public Works open house in Cottage Grove

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Section 10.0 Description of all Subcontractors

Tennis Sanitation, LLC will be the prime recycler on this proposal, with all the billing, contact, educational materials going through Tennis Sanitation, LLC.

In an effort to reduce route lengths and ensure 100% redundancy in trucks, personnel and recycling facilities, Tennis Sanitation, LLC will sub out Buckingham Trucking Inc.

Tennis Sanitation LLC will provide 50% of the recycling pickup and process and Buckingham Trucking Inc. will pick up and process the other 50%.

Tennis Sanitation, LLC will be the holder of the contract and responsible through the entirety of the contract.

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Section 11.0 Our Facilities

Tennis Sanitation, LLC:

As an overview of some of our location in St. Paul Park, MN, please see photos below of our Recycle Center, along with our Recycle Trucks and our Single-Stream Process Facility.

Our Facility:



State of the Art Recycling Facility

Our Recycling Pick-Up Vehicles:



Single Sort Vehicle

Section 11.0 Our Facilities (Cont.)

Tennis Sanitation, LLC (cont.):

Our Single-Stream Process Facility:



Tennis Sanitation
Single Sort Vehicle



Personnel removing
non-recyclables



Recycled material running
through the paper sorter



Recycled material Single
Stream Process Line



Eddie current aluminum
can separator



Recycled plastic ready to be
hauled away

Section 11.0 Our Facilities (Cont.)

Buckingham Trucking Inc.:

Buckingham likes to provide prompt service to customers. “We’re the little company that is big on service.” Service is really this company’s only product, “so we provide the best.” A reliable service record is what has kept Buckingham in business and growing with the communities it services.

- Tom Buckingham started in the disposal business when he was a senior at Burnsville High School. During afternoons and on weekends he picked up trash in his hometown emptying 55 gallon burner barrels from customers backyards (as custom in those days). He said his father was the person who provided the inspiration and encouragement to build his company to what it is today. Elmer and Rose Buckingham assisted with their son’s business into the late 1990s.
- Tom Buckingham states, “There have been numerous changes in the solid waste disposal business since I started over 44 years ago.” It is an industry that is constantly changing and new plans for disposing of solid waste will affect our customers and us. The company includes a newsletter with their billing to inform customers about changes in rules that will affect their service.

Our Facility:



Our Recycling Pick-Up Vehicles:



Section 11.0 Our Facilities (Cont.)

Buckingham Trucking, Inc. (cont.):

Our Single-Stream Process Facility:



Section 12.0 Communities Served

In an effort to identify the local acceptance and market share that Tennis Sanitation, LLC has created over the years, the table below illustrates the local areas we are supporting and communities where we are collecting trash, recyclable, or both.

In most of the markets we collect in, we have been able to achieve more than 50% of the Single Family Households as a result of price/value, commitment to customer satisfaction and continued hard work.

Partial List of Single Family Clients by Community

Item #	Community	# of Haulers	% of Households	Recycle & Trash	Trash Only	Recycle Only
1	Denmark Township	3	45%-50%	X		
2	Cottage Grove	3	70%-75%	X		
3	Woodbury	7	45%-50%	X		
4*	Lake Elmo	5	20%	X		
5	St. Paul Park	2	90%-95%	X		
6	Newport	7	50%	X		
7	Oakdale	5	75%-80%	X		
8	Maplewood	5	30%-35%		X	
9	Birchwood (300 homes)	1	100%		X	
10	Prior Lake					
11	Burnsville					
12	Elko and New Market					
13	Shakopee					
14	Eden Prairie					
15	Falcon Heights	3	100%			X
16	Savage	6	55%	X		
17	Eden Prairie	5	25%	X		
	(Monday Pick up Area)					
18	The Wilds Golf Community (624 homes)	1	100%	X		
19	Dufferin Park Association (610 homes)	6	90%	X		
20	Rodeo Hills Association (97 homes)	1	100%	X		
21	Birnamwood Association (224 homes)	1	100%	X		
22	Berkshire Association (220 homes)	1	100%	X		
23	Deerfield Coach/Homeowners Association (300 homes)	1	100%	X		
25	Chadwick Park Homeowners Association (226 homes)	1	100%	X		
26	Crimson Arbor Association (143 homes)	1	100%	X		
27	Creekside of Savage Association (119 homes)	1	100%	X		

* Started marketing in 2009

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Section 13.0 City of Edina Project Content Checklist

PROPOSAL CONTENT CHECKLIST

Prospective Contractors shall complete and submit this checklist.

Items listed are mandatory (*unless noted otherwise*).

- Four (4) bound copies of the proposal**
- One (1) unbound (not stapled or bound) copy of the proposal**
- One (1) electronic copy of the proposal** (formatted in Microsoft Word or a suitably compatible alternative).
- Attachment D - Signature Page**
- Description of all subcontractors**

Proposed Price Worksheets, Attachments B.1 through B.4 (Please submit proposed price worksheets in a separate sealed envelope.)

- B.1.1 Proposed Percent Revenue Sharing Worksheet
- B.1.2 Proposed Processing Fees Worksheet

B.2 Collection Service Fees Worksheets

- B. 2.1 Two Sort Scenario
- B. 2.2 Single-sort Scenario

B. 3 Proposer's Alternate Scenario (*Not required*):

- B.3.1 Complete Description of Alternate System
- B.3.2 Proposed Alternate Percent Revenue Share
- B.3.3 Proposed Alternate Processing Fees
- B.3.4 Alternate Collection Service Fees Worksheet
- Attachment C - Questionnaire**
- Proof of ability to provide insurance**
- Current example of an "education tag"** (as left behind by the recycling collection crew with any non-targeted material)
- Confidential information is/is not** (*circle one*) **included in a separate envelope** (*optional*)

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Appendix:

A. Signature Page

B. Price Worksheets (RFQ Attachment B)

C. Letters of Reference (Tennis Sanitation)

D. Copy of Insurance Certificate (Tennis Sanitation)

- Workers Compensation Insurance
- Commercial General Liability Insurance
- Commercial Automobile Liability Insurance
- Environmental Liability Insurance

E. Sub's Letters of Reference (Buckingham Trucking Inc.)

F. Sub's Copy of Insurance Certificate (Buckingham Trucking Inc.)

- Workers Compensation Insurance
- Commercial General Liability Insurance
- Commercial Automobile Liability Insurance
- Environmental Liability Insurance

G. Notification of Intent to the City of Edina

Note: From Tennis Sanitation, LLC, Dated April 5th, 2012

H. Examples of Educational Materials

I. Example of Educational Tag for Inappropriate Materials

J. Examples of Reports (City of Maplewood 1/1/2012)

K. Fleet Fuel Emissions Reduction

L. Letter from the Minnesota Department of Natural Resources

M. Information from Vendor Regarding Glass Recycling

End / TS, LLC

Appendix A
Signature Page

ATTACHMENT D - Signature Page

Project Title: City of Edina Residential Recycling Services

Date/Time Proposals Due: **Wednesday, April 18, 2012; No later than 4:00 p.m.**

PROPOSAL SUBMITTED BY:

Signature: _____

Name/Title: _____

Firm Name: _____

Mailing Address: _____

City/State/Zip: _____

Official Contact Person: _____

Phone Number(s): _____

Email Address: _____

PROPOSALS WILL BE ACCEPTED AT:

Edina City Hall

Attention: Recycling Coordinator

4801 West 50th Street, Edina, MN 55424

No later than 4:00 p.m. Wednesday, April 18, 2012 to be considered

RECEIPT OF PROPOSAL

RECEIVED: _____
DATE TIME BY WHOM

Appendix B
Price Worksheets (RFQ Attachment B)

Appendix B Economic - Rate Sheet for Single Sort Weekly and Bi-Weekly Proposal

RFQ Attachment B: Price Worksheets Responses

RFQ Attachment B.1.1 Proposed Percent Revenue Share by Commodity:

Response: We want to offer a flat rate of 25 cents per household/unit per month for Revenue Sharing. We used our 2011 pricing with Edina's 2011 Tonnage and the revenue sharing option came out to equal 25 cents (per house hold per month.) We feel a flat rate would be better for Edina because they will know exactly how much revenue sharing they will receive regardless of fluctuating prices determined by volume and market.

Note: 25 cents will be guaranteed as a minimum for 2016-2019 and it will be increased if markets allow.

RFQ Attachment B.1.2 Proposed Processing Fees by Commodity

Response: Our processing fee will be \$88.00 per ton for all materials. This will cover the years 2013-2019.

RFQ Attachment B.2.1.1

Year	Price per Curbside CDU per Month
2013 - 2015	\$ N/A - Option does not allow for maximum recycling

RFQ Attachment B.2.1.2

Year	Price per Curbside CDU per Month
2013 - 2017	\$ N/A - Option does not allow for maximum recycling

RFQ Attachment B.2.1.3

Year	Price per Curbside CDU per Month
2013 - 2019	\$ N/A - Option does not allow for maximum recycling

Appendix B Economic - Rate Sheet for Single Sort Weekly and Bi-Weekly Proposal (cont.)

Single Sort Bi-Weekly Proposal:

RFQ Attachment B.2.2.1

Year	Price per Curbside CDU per Month
2013	\$ 2.75
2014	\$ 2.75
2015	\$ 2.75

RFQ Attachment B.2.2.2

Year	Price per Curbside CDU per Month
2013	\$ 2.75
2014	\$ 2.75
2015	\$ 2.75
2016	\$ 3.25
2017	\$ 3.25

RFQ Attachment B.2.2.3

Year	Price per Curbside CDU per Month
2013	\$ 2.75
2014	\$ 2.75
2015	\$ 2.75
2016	\$ 3.25
2017	\$ 3.25
2018	\$ 3.75
2019	\$ 3.75

Appendix B Economic - Rate Sheet for Single Sort Weekly and Bi-Weekly Proposal (cont.)

RFQ Attachment B.3.1 Proposer Alternative

Single Sort (Alternative Proposal) Weekly Proposal:

RFQ Attachment B.2.2.1 (Alternative Proposal)

Year	Price per Curbside CDU per Month
2013	\$ 3.25
2014	\$ 3.25
2015	\$ 3.25

RFQ Attachment B.2.2.2 (Alternative Proposal)

Year	Price per Curbside CDU per Month
2013	\$ 3.25
2014	\$ 3.25
2015	\$ 3.25
2016	\$ 3.75
2017	\$ 3.75

RFQ Attachment B.2.2.3 (Alternative Proposal)

Year	Price per Curbside CDU per Month
2013	\$ 3.25
2014	\$ 3.25
2015	\$ 3.25
2016	\$ 3.75
2017	\$ 3.75
2018	\$ 4.25
2019	\$ 4.25

Appendix C
Letters of Reference (Tennis Sanitation, LLC.)



8301 Valley Creek Road • Woodbury, Minnesota 55125-2320 • www.ci.woodbury.mn.us
651/714-3500 • TDD 651/714-3568 • FAX 651/714-3501

April 16, 2012

City of Edina
Attn: Solvei Wilmot
Recycling Coordinator
4801 W. 50th St.
Edina, MN 55424

Re: Reference letter for Tennis Sanitation Recycling RFP

Dear Ms. Wilmot,

Tennis Sanitation is a licensed trash and recycling hauler for residential and commercial properties in Woodbury. In our experience, Tennis is always very responsive to city requests and inquiries, and is a very responsible company. Tennis currently has the largest customer base in the city, serving approximately 5,400 households in Woodbury.

The company owners from Tennis have consistently attended the annual haulers meeting hosted by the city's Environmental Advisory Commission (EAC). Tennis also has graciously opened their recycling facility in the past, so the EAC may tour the facility and better understand how single-sort recycling is processed.

Beginning in 2010, the City of Woodbury collaborated with the city's licensed haulers to offer a curbside recycling event in lieu of the city's traditional Earth Day Recycling event, held at a city park. Tennis Sanitation was one of the first haulers to agree to partner with the city to offer this one-time pick-up to Woodbury residents at a discounted price. The annual event has been a tremendous success, and as one of the largest haulers in the city, Tennis continues to collect and recycle the largest number of items targeted for the event (appliances, tires, and scrap metal).

In 2012, Tennis took over the contract for servicing Woodbury's city buildings and park facilities. The transition to Tennis has been very smooth.

If you have additional questions, please contact me at (651) 714-3522.

Sincerely,

A handwritten signature in black ink that reads "Jennifer McLoughlin".

Jennifer McLoughlin
Sustainability Specialist



April 16, 2012

RE: TENNIS SANITATION LETTER OF RECOMMENDATION

To whom it may concern,

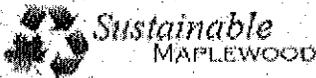
Tennis Sanitation has been our contracted recycling hauler since January 2011. They provide weekly recycling services to over 11,000 single-family and multi-family residents in our community.

During the first few months of the recycling contract, Tennis Sanitation assisted the City of Maplewood and its previous recycling contractor with a smooth transition from dual sort recycling to single sort. Over the last sixteen months of service, Tennis Sanitation has provided the City of Maplewood with good service and great communication to our staff and residents. They have developed a thorough monthly and yearly reporting system for our recycling data, and have made a strong commitment to enhancing our recycling program by providing the expansion of recycling markets and maintaining updated education to our residents.

For these reasons, I would recommend Tennis Sanitation to any interested municipality or community.

Sincerely,

Shann Finwall, AICP
Environmental Planner
City of Maplewood
1830 County Road B East
Maplewood, MN 55109
(651) 249-2304 - phone
(651) 249-2319 - fax





CITY OF
FALCON HEIGHTS

2077 W. Larpentour Avenue
Falcon Heights, MN 55113-5594

email: mail@falconheights.org
website: www.falconheights.org

The City That Soars!

Phone - (651) 792-7600
Fax - (651) 792-7610

April 6, 2012

To whom it may concern:

I am pleased to recommend Tennis Sanitation as a recycling contractor for city-wide service to both single family and multi-family residences. The City of Falcon Heights has a population of approximately 5400 residents served under a city contract with Tennis for recycling collection since January 1, 2011. Both single-family homes and apartment buildings are provided with wheeled carts under the contract. Pickup is weekly on Fridays. Materials collected include the usual papers, cans, bottles and plastics plus a wider range of plastics than residents could recycle in the past, used clothing, scrap metals and other items.

Since the contract began, the City has received very few complaints about recycling pickup or customer service. The adjustment between the former contractor and this contractor went very smoothly. Residents have positive things to say about the service. They are happy with the carts and enjoy the more frequent pickups than the City had in the past.

The staff at Tennis, especially Stacy, have always been prompt and thorough in meeting any requests or concerns from our City staff. At annual reporting time, in particular, when we had a very tight timeline, Stacy was endlessly patient in helping us track down our data entry error and get all our tonnage information compiled in time.

Sincerely,

Deborah Jones
Zoning and Planning Director
Recycling Coordinator

FAMILIES, FIELDS AND FAIR



PRINTED ON RECYCLED PAPER

Appendix D

Copy of Insurance Certificate (Tennis Sanitation, LLC.)

- **Workers Compensation Insurance**
- **Commercial General Liability Insurance**
- **Commercial Automobile Liability Insurance**
- **Professional Liability Insurance or Errors and Omissions**
- **Environmental Liability Insurance**



CERTIFICATE OF LIABILITY INSURANCE

TENNI-1

OP ID: LP

DATE (MM/DD/YYYY)

04/12/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Advisors, Inc. 15020 27th Avenue N. Plymouth, MN 55447 Jason C Richmond	763-536-8006 763-398-4060	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:	FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED Tennis Sanitation, LLC Tennis Brothers, LLC 720 4th St., PO Box 64 St Paul Park, MN 55071	INSURER A : Technology Insurance Co		21415
	INSURER B : EMC Insurance Companies		
	INSURER C :		
	INSURER D :		
	INSURER E :		
	INSURER F :		

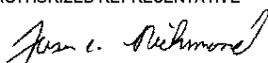
COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			3D06609	02/26/12	02/26/13	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC						
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE			3X06609	02/26/12	02/26/13	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$
	DED <input checked="" type="checkbox"/> RETENTION \$						
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	TWC3274167	02/15/12	02/15/13	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

EDINACI City of Edina Attn: License Clerk 4801 W. 50th St. Edina, MN 55424-1394	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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Appendix E
Sub's Letters of Reference (Buckingham Trucking, Inc.)



April 10, 2012

RE: Recommendation for Buckingham Waste Disposal

To Whom It May Concern

I have had the pleasure of having Buckingham Waste Disposal service two townhome association sites that I manage for the last 5+ years. Buckingham has provided absolutely wonderful customer service and pickup service in that time. I especially appreciate the direct communication lines that I have available for any issues that we need to deal with.

For the two sites (267 units total), Buckingham also provides very easy and excellent service for non-scheduled recycle items such as electronics or appliances. Buckingham's drivers are always going above and beyond by parking the truck and running for items that may blow out of bins to make sure the sites are 100% cleaned up when they leave.

In addition to my professional experience, I have also had the pleasure to use Buckingham as a customer personally in the past for a bathroom remodel project where I used a construction waste dumpster from Buckingham. The driver went way out of his way to ensure that the dumpster was placed in the most efficient location while ensuring that no damage was done to our driveway. My only complaint is that I live in a city where we have no choice of weekly trash haulers, and Buckingham is not my hauler.

Please feel free to contact me for a personal reference and to talk further on my experience.

I can be reached directly at 952-259-1220 or david@ncmgi.com

Sincerely

David Schultz
Senior Property Manager
New Concepts Management Group, Inc.





Letter of Recommendation for The Buckingham Companies

Date: April 11, 2012

From: The Wilds Homeowners Association - Dennis R. Griswold, Treasurer

The Buckingham Companies has been the consistently reliable local company responsible for quality disposal and recycle service for The Wilds since February, 2000. It is currently under contract to February, 2015, and will be highly considered for renewal based on its excellent performance and reasonably competitive pricing.

Since 2000, The Wilds has grown from a limited number of new homes to more than 600 of its ultimate total of 718 residences. Buckingham has managed that growth extremely well, starting with a friendly welcome to new residents as they pick up the extra move-in boxes and deliver the containers for future use. I was personally impressed by this during my November, 2000 move-in and consistently see it repeated as new neighbors arrive.

Buckingham employees are all genuinely customer friendly as demonstrated by the driver's smile and wave during the weekly Wednesday pickup service in their well-maintained vehicles or their friendly greeting at their recycle facility conveniently located within a few miles of The Wilds in Prior Lake.

Buckingham's website www/buckinghamcompanies.com is very helpful for The Wilds residents to contact them for any special service needs. Also, it is excellent to confirm the pickup schedule for Monday holiday adjustments for customers like myself who don't quite always remember correctly and need to confirm before putting the dumpster at the end of the driveway!

Respectfully,

A handwritten signature in blue ink, appearing to read "Dennis R. Griswold", is written over a light blue circular stamp.

Dennis R. Griswold, Treasurer

The Wilds Homeowners Association



4646 Dakota Street SE
Prior Lake, MN 55372

April 9, 2012

To Whom it May Concern

Buckingham Companies has been a business resident in the City of Prior Lake for 44 years. During that time, they have established themselves as a leader in residential refuse collection, commercial refuse collection and recycling.

Buckingham has developed a commendable record for customer service on all three fronts. If a driver makes a mistake and begins a route early, they take prompt corrective action. Their recycling site is efficient and meets the needs of area customers.

Based upon my professional and personal experience, I would recommend that you give positive consideration to Buckingham Companies as your recycling company.

Sincerely,

Frank Boyles
City Manager

Appendix F
**Sub's Copy of Insurance Certificate (Buckingham Trucking,
Inc.)**

- **Workers Compensation Insurance**
- **Commercial General Liability Insurance**
- **Commercial Automobile Liability Insurance**
- **Professional Liability Insurance or Errors and Omissions**
- **Environmental Liability Insurance**



CERTIFICATE OF LIABILITY INSURANCE

BUCKI-3

OP ID: PB

DATE (MM/DD/YYYY)

04/10/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER Insurance Advisors, Inc. 15020 27th Avenue N. Plymouth, MN 55447 Kevin Gray	763-536-8006 763-398-4060	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL ADDRESS:	FAX (A/C, No):																				
	INSURED The Buckingham Companies Shawn Holz 5980 Credit River Rd SE Prior Lake, MN 55372		<table border="1"> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A :</td> <td>EMC Insurance Companies</td> <td>21415</td> </tr> <tr> <td>INSURER B :</td> <td>Security Nat'l. Insurance Co.</td> <td></td> </tr> <tr> <td>INSURER C :</td> <td></td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A :	EMC Insurance Companies	21415	INSURER B :	Security Nat'l. Insurance Co.		INSURER C :			INSURER D :			INSURER E :			INSURER F :	
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INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS											
A	<input checked="" type="checkbox"/> GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC			4X63398	01/01/12	01/01/13	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000											
	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			4E63398	01/01/12	01/01/13	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$											
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB DED <input checked="" type="checkbox"/> RETENTION \$ 10000			4J63398	01/01/12	01/01/13	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ \$											
	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			SWC1006697	01/01/12	01/01/13	<table border="1"> <tr> <td>WC STATU-TORY LIMITS</td> <td>OTH-ER</td> <td></td> </tr> <tr> <td>E.L. EACH ACCIDENT</td> <td></td> <td>\$ 500,000</td> </tr> <tr> <td>E.L. DISEASE - EA EMPLOYEE</td> <td></td> <td>\$ 500,000</td> </tr> <tr> <td>E.L. DISEASE - POLICY LIMIT</td> <td></td> <td>\$ 500,000</td> </tr> </table>	WC STATU-TORY LIMITS	OTH-ER		E.L. EACH ACCIDENT		\$ 500,000	E.L. DISEASE - EA EMPLOYEE		\$ 500,000	E.L. DISEASE - POLICY LIMIT	
WC STATU-TORY LIMITS	OTH-ER																	
E.L. EACH ACCIDENT		\$ 500,000																
E.L. DISEASE - EA EMPLOYEE		\$ 500,000																
E.L. DISEASE - POLICY LIMIT		\$ 500,000																

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

EDIN001 City of Edina Department of Inspections 4801 West 50th Street Edina, MN 55424	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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Appendix G
Notification of Intent to the City of Edina
Note: From Tennis Sanitation, LLC.
Dated April 5th, 2012

Notification of Intent

Tennis Recycling Services for the City of Edina

April 3, 2012

Ms. Solvei Wilmot
Environmental Health Specialist/Recycling Coordinator
City of Edina
4801 West 50th Street
Edina, MN 55424

Reference: Request for proposal for Residential Curbside Recycling Services
for the City of Edina

Dear Ms. Wilmot:

It is the intent of Tennis Recycling, L.L.C. to submit a proposal in response to this Request for Proposal (RFP). The primary contact for your company in all matters relating to this RFP process is:

Name: William Tennis, President

The secondary contact is:

Name: Gregory Tennis, Treasurer

Mailing Address:
Tennis Recycling, L.L.C.
P.O. Box 63
Saint Paul Park, MN 55071

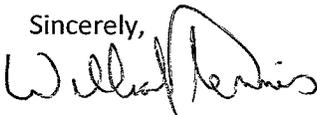
Address for Deliveries:
Tennis Recycling, L.L.C.
720 4th Street
Saint Paul Park, MN 55071

Voice: (651) 459-1887
Cell: (651) 402-9000 (William)

Primary E-Mail Address: Tennissanitation@aol.com

Secondary E-Mail Address: Tennissan@comcast.net

Sincerely,



William Tennis
Tennis Recycling, L.L.C.



Gregory Tennis

Appendix H
Examples of Educational Materials

Appendix I
Example of Educational Tag for Inappropriate Materials

Appendix J
Examples of Reports (City of Maplewood)

2011

Maplewood Recycling Report



Greg & Willie Tennis

Tennis Sanitation

1/1/2012



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Recycling Data (Multi-family).....	Page 4
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Inquiries, Linens, Cardboard, & Parks Summary.....	Page 6
Composite Studies.....	Page 7
Environmental Impact Analysis.....	Page 8
Fun Facts to be proud of.....	Page 9, 10, 11, 12
Glass Recycling Processors.....	Page 13
Market Report - the end markets.....	Page 14
Additional Items.....	Page 15
Summary of Year-end Recycling Report.....	Page 16

Appendix of Recycling Report

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Recycling Report (Multi-family).....	Appendix B
Monthly Recycling Report Letter (Example).....	Appendix C
Monthly Multi-family Report Data (Example).....	Appendix D
Monthly Single Family Report Data (Example).....	Appendix E
Four main stages of product life-cycles.....	Appendix F

Educational Tags and Complaints/Compliments Log Report

Educational Tags.. (see separate attachment).....	3 ring binder
Compliments/Complaints...(see separate attachment).....	3 ring binder



January 25, 2012

City of Maplewood

Maplewood, MN 55109
1830 County Road B E
RE: LETTER OF PURPOSE

Dear City of Maplewood,

This Year-end recycling report has been prepared for the City of Maplewood.

The report contains summaries of recycling data for both single family and multi-family, inquiries, composite study information, environmental impact report, fun facts and a market report of recycling markets, along with a final summary of the report.

The data in this report will assist us in developing a better understanding of the past, present and future progress of the City of Maplewood's recycling program.

Our goal is to develop future strategies to enhance the recycling programs already in place.

Sincerely,

Greg and Willie Tennis
Tennis Sanitation



RECYCLING DATA SUMMARY

In this report we have compiled annual data from both single family and multi-family dwellings (SEE APPENDIX A). This data includes:

- Net tonnage of all residential and multi-family dwellings combined (tan)
- Break-out of single family tonnage and set-out rates (yellow)
- Break-out of multi-family tonnage (blue)
- Separate measurement of weights for cardboard and linens (bottom of APPENDIX A)
- Break-out of single family recycling materials by type and weight (yellow)
- Break-out of multi-family recycling materials by type and weight (blue)
- Break-out of combined tonnages (green)
- Inquiries tracked per month (bottom of APPENDIX A)

The data is compiled from recyclable materials collected from our drivers on designated Maplewood routes. Loads are weighed; weights are then compiled over a month's period of time. Weights are broken out based on a composite ratio of the entire load.



RECYCLING DATA (SINGLE FAMILY)

The Single Family Data in APPENDIX A (yellow) was compiled from the single family homes after taking out the multi-family weights. From this data – we are able to illustrate the weight per home (in lbs.) per month. We also have tracked the number of residents (“Not-outs”) that do not place their recycling out on a weekly basis. The data from the routes is compiled from the Single Family data spreadsheet which details each route day and the total tons collected (APPENDIX E) – Please note that only Mon-Weds are shown.

In analyzing the single family data, we are able to provide the following observations:

- Average lbs. per household per month = 38.91 lbs. per month
- Paper tonnage volume increased over the last quarter of the year
- Overall tonnage volume increased over the last quarter of the year
- Annual Net total tons collected for single family were 2,146.06

Additional Trends:

Part of the reason we feel the paper volume has increased is because we provide a one-sort collection process that offers the residences the convenience of collecting additional recyclable materials and larger items such as corrugated cardboard boxes which otherwise may end up in the trash.



RECYCLING DATA (MULTI-FAMILY)

The Data in APPENDIX A (Blue) is the actual data compiled from net total weight family homes after factoring-out the multi-family weights. From this data – we are able to illustrate the weight per unit (in lbs.) per month. To assist us in providing accurate data, we compile weights on a quarterly basis. This weight is then used to provide us with a fair average of weight generated by each multi-family unit. Our drivers then documented the number of carts dumped at each location on a weekly basis (see APPENDIX D). These weights are then added at the end of each month to provide us with a net total. From the report we are able to calculate the weight per unit per month.

In analyzing the multi-family data, we are able to provide the following observations:

- Average lbs. per unit per month = 12.96 lbs. per month
- Paper tonnage volume increased over the last quarter of the year
- Overall tonnage volumes were very consistent over the 12 month period

How are the weights determined for the multi-family data? On a quarterly basis – we use one truck to collect all multi-family dwellings. The total weight is then divided by the number of carts emptied to get an average weight per cart. This data is then entered into multi-family spreadsheet. See APPENDIX D for an example of this report.

This data is significant because we are able to easily separate this data from the total tons collected on each day of collection. The remaining tonnage is then the actual tonnage which comes from the single family homes.



MULTI-FAMILY INDIVIDUAL SUMMARY LETTER

From the data compiled over the twelve months we are able to provide each multi-housing property with an accurate summary report of their recycling volumes (APPENDIX B). We also provide them with some information on how their efforts help with the environment along with additional information to assist them in enhancing their recycling efforts.

ENVIRONMENTAL IMPACT ANALYSIS	TENNIS SANITATION
Property: English Manor Apartments	ESTIMATED TOTAL TONS RECYCLED: 3.02

Dear Property Manager,

Below is a recap of your recycling efforts from last year. Please notice the amount of recycling materials your tenants recycled and the estimated resources you saved from each category.

Also, please contact us if you would like further information on ways to enhance your recycling. You can contact us at 651-459-1887. Awesome job on recycling!!

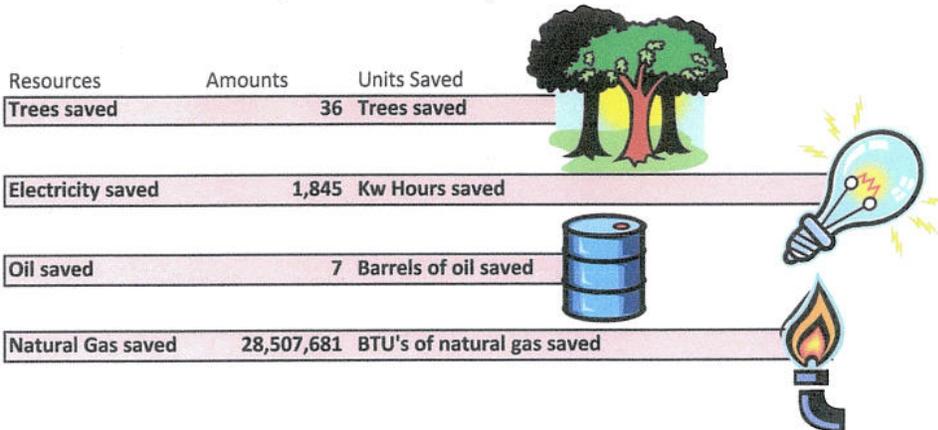
Thank you for recycling,

Greg & Willie Tennis

Sincerely, Greg and Willie Tennis

Recycling Type	MW total Tons	Units	Resource Saved	Calc/Resource	Total Resources Saved	Type
Paper	2.12	tons	Trees	1 ton = 17 Trees	36.0	trees
Paper	2.12	tons	Electricity	1 ton = 601 Kw Hours	1,272	Kw hours of electricity
Paper	2.12	tons	Oil	1 ton = 1.7 barrels of oil	3.60	barrels of oil
Aluminum	0.04	tons	Ore	1 ton = 4 tons of ore	0.15	tons of ore
Aluminum	0.04	tons	Electricity	1 ton = 14,000 Kw Hours	509	Kw hours of electricity
Aluminum	0.04	tons	Oil	1 ton = 40 barrels of oil	1.45	barrels of oil
Tin/bi-metal	0.07	tons	Ore	1 ton = 1.49 tons of ore	0.10	tons of ore
Tin/bi-metal	0.07	tons	Electricity	1 ton = 642 Kw Hours	45	Kw hours of electricity
Tin/bi-metal	0.07	tons	Oil	1 ton = 1.8 barrels of oil	0.13	barrels of oil
Plastics	0.29	tons	Oil	1 ton = 6.3 barrels of oil	1.81	barrels of oil
Plastics	0.29	tons	Electricity	1 ton = 5,774 Kw Hours	1	Kw hours of electricity
Plastics	0.29	tons	Natural Gas	1 ton = 98,000,000 btu's	28,183,465	BTU's of fuel
Glass	0.45	tons	Sand	1 ton = 1,330 tons of sand	604	tons of sand
Glass	0.45	tons	Electricity	1 ton = 42 Kw Hours	19	Kw hours of electricity
Glass	0.45	tons	Oil	1 ton = .12 gallons of oil	0.05	barrels of oil
Glass	0.45	tons	Natural Gas	1 ton = 714,000 btu's	324,216	BTU's of fuel

Environmental Impact Summary



**Disclaimer: The above numbers represent conversions from industrial and recycling markets. These numbers are

INQUIRIES SUMMARY

Below are twelve months of data documenting the number of residents that called into our office. As the new recycling contractor we anticipated the first quarter to receive additional volume of inquiries. The most common calls were comprised of residents asking what additional items they could recycle. Other less common calls were to see if our driver could come back because they forgot to put out their materials in time and the occasional request of how to dispose of hazardous waste.

We are confident that our Customer Service Staff (CSRs) resolved all inquiries to the resident's satisfaction. The amount of inquiries to actual residents serviced average less than ½ percent. Our team of CSRs and professional drivers are committed to providing the best service to the City of Maplewood – we feel this report is direct result of this commitment.

TOTAL INQUIRIES FOR 2011

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
87	64	70	38	16	16	11	15	5	5	5	12	344

LINENS AND SHOES SUMMARY

Linens and shoes for the year totaled 6,217 pounds.



CARDBOARD SUMMARY

Cardboard collected from city facilities and buildings totaled 105,615 pounds.



RECYCLING COMPOSITE STUDY

In the 2nd week of October 2011 – our processing facility took three trucks of random material from Maplewood’s Monday through Friday recycling routes. The tare weight of the contents was documented, the sorting floor was cleared and the three truck’s loads were sorted into 11 categories (as listed below). All of the categories were then weighed and documented. The results of the composite study were then entered back into the monthly report.

Why do a composite study?

Having a good understanding of the recycling composition provides us with data that may assist us in adjusting it to fit the needs of the Residents of Maplewood. With on-going changes in the economy, cultural and even changes in the home we can develop more available markets, increase processing technologies to handle more items and enhance educational materials to instruct residents on proper recycling procedures.

Tennis Sanitation, L.L.C.

651-459-1887

"Recycling is Everyone's Future"

October 14th, 2011

RE: COMPOSITE BREAK-OUT PERCENTAGE

Dear Recycling Coordinator,

Tennis Sanitation is pleased to provide the following composite sample break-out detailing percentage ratios of each type of recycling category.

Totals wgt of each type	% Ratio
Newspaper	55.3%
Cardboard	14.5%
Milk Cartons	0.1%
Tin	2.3%
Aluminum	1.2%
Glass - Clear	2.2%
Glass - Green	1.3%
Glass - Brown	1.4%
Glass - Broken	10.1%
Plastics	9.5%
Residuals	2.2%
	100%

Linens - mixed	182.6	lbs
Scrap steel	294.0	lbs

The above percentage break-out of recycling material was based on the following sample study done on the week of October 3rd. Our processing team had taken loads of recycling and had weighed the entire load then items were broken out into specific types as listed above and re-weighed to get the percentage data.

The above composite numbers will be reflected in Maplewood's updated reports.

Thank you for recycling.

Sincerely,

Willie Tennis
Tennis Sanitation

ENVIRONMENTAL IMPACT ANALYSIS

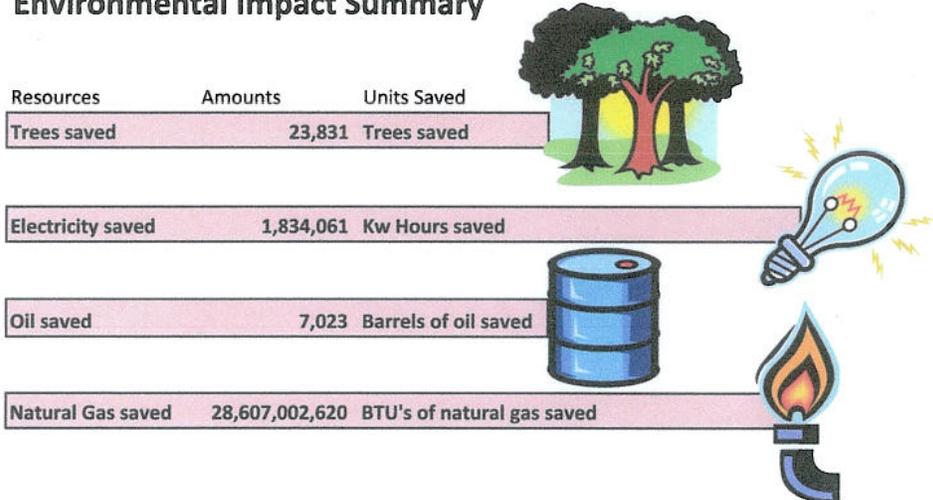
From the detailed recycling data from this report, we are able to provide the City of Maplewood with some unique ways that the residents recycling efforts have made a difference. Over the years, recycling markets have been able to recycle more and more items out of the waste stream. They have also been able to determine what resources are saved by recycling various materials.

In this report we were able to convert the break-out of the composite of recycling materials and convert the tonnages into resources saved.

ENVIRONMENTAL IMPACT ANALYSIS
CITY OF MAPLEWOOD RECYCLING 2011

Recycling Type	MW total Tons	Units	Resource Saved	Calc/Resource	Total Resources Saved	Type
Paper	1,402	tons	Trees	1 ton = 17 Trees	23,831	trees
Paper	1,402	tons	Electricity	1 ton = 601 Kw Hours	842,488	Kw hours of electricity
Paper	1,402	tons	Oil	1 ton = 1.7 barrels of oil	2,383	barrels of oil
Aluminum	64	tons	Ore	1 ton = 4 tons of ore	256	tons of ore
Aluminum	64	tons	Electricity	1 ton = 14,000 Kw Hours	896,000	Kw hours of electricity
Aluminum	64	tons	Oil	1 ton = 40 barrels of oil	2,562	barrels of oil
Tin/bi-metal	109	tons	Ore	1 ton = 1.49 tons of ore	162	tons of ore
Tin/bi-metal	109	tons	Electricity	1 ton = 642 Kw Hours	69,818	Kw hours of electricity
Tin/bi-metal	109	tons	Oil	1 ton = 1.8 barrels of oil	196	barrels of oil
Plastics	288	tons	Oil	1 ton = 6.3 barrels of oil	1,812	barrels of oil
Plastics	288	tons	Electricity	1 ton = 5,774 Kw Hours	1,151	Kw hours of electricity
Plastics	288	tons	Natural Gas	1 ton = 98,000,000 btu's	28,188,720,000	BTU's of fuel
Glass	586	tons	Sand	1 ton = 1,330 tons of sand	779,154	tons of sand
Glass	586	tons	Electricity	1 ton = 42 Kw Hours	24,605	Kw hours of electricity
Glass	586	tons	Oil	1 ton = .12 gallons of oil	70	barrels of oil
Glass	586	tons	Natural Gas	1 ton = 714,000 btu's	418,282,620	BTU's of fuel

Environmental Impact Summary



**Disclaimer: The above numbers represent conversions from industrial and recycling markets. These numbers are ESTIMATED resources saved. All calculations are taken from annual total tons from Maplewood Final Recycling Report.

FUN RECYCLING FACTS

PAPER & CARDBOARD

- ♻️ To produce each week's Sunday newspapers, 500,000 trees must be cut down.
- ♻️ Recycling a single run of the Sunday *New York Times* would save 75,000 trees.
- ♻️ If all our newspaper was recycled, we could save about 250,000,000 trees each year!
- ♻️ If every American recycled just one-tenth of their newspapers, we would save about 25,000,000 trees a year.

If you had a 15-year-old tree and made it into paper grocery bags, you'd get about 700 of them. A busy supermarket could use all of them in under an hour! This means in one year, one supermarket can go through over 6 million paper bags! Imagine how many supermarkets there are just in the United States!!!



- ♻️ The average American uses seven trees a year in paper, wood, and other products made from trees. This amounts to about 2,000,000,000 trees per year!
- ♻️ The amount of wood and paper we throw away each year is enough to heat 50,000,000 homes for 20 years.
- ♻️ Approximately 1 billion trees worth of paper are thrown away every year in the U.S.
- ♻️ Americans use 85,000,000 tons of paper a year; about 680 pounds per person.
- ♻️ The average household throws away 13,000 separate pieces of paper each year. Most is packaging and junk mail.
- ♻️ In 1993, U.S. paper recovery saved more than 90,000,000 cubic yards of landfill space.
- ♻️ Each ton (2000 pounds) of recycled paper can save 17 trees, 380 gallons of oil, three cubic yards of landfill space, 4000 kilowatts of energy, and 7000 gallons of water. This represents a 64% energy savings, a 58% water savings, and 60 pounds less of air pollution!
- ♻️ The 17 trees saved (above) can absorb a total of 250 pounds of carbon dioxide from the air each year. Burning that same ton of paper would *create* 1500 pounds of carbon dioxide.

- ♻️ The construction costs of a paper mill designed to use waste paper is 50 to 80% less than the cost of a mill using new pulp.

ALUMINUM CANS

- ♻️ A used aluminum can is recycled and back on the grocery shelf as a new can, in as little as 60 days. That's closed loop recycling at its finest!

- ♻️ Used aluminum beverage cans are the most recycled item in the U.S., but other types of aluminum, such as siding, gutters, car components, storm window frames, and lawn furniture can also be recycled.

- ♻️ Recycling one aluminum can saves enough energy to run a TV for three hours -- or the equivalent of a half a gallon of gasoline.



- ♻️ More aluminum goes into beverage cans than any other product.

- ♻️ Because so many of them are recycled, aluminum cans account for less than 1% of the total U.S. waste stream, according to EPA estimates.

- ♻️ An aluminum can that is thrown away will still be a "can" 500 years from now!

- ♻️ There is no limit to the amount of times aluminum can be recycled.

- ♻️ We use over 80,000,000,000 aluminum soda cans every year.

- ♻️ At one time, aluminum was more valuable than gold!

- ♻️ A 60-watt light bulb can be run for over a day on the amount of energy saved by recycling 1 pound of steel. In one year in the United States, the recycling of steel saves enough energy to heat and light 18,000,000 homes!

PLASTICS

- ♻️ Americans use 2,500,000 plastic bottles every hour! Most of them are thrown away!

- ♻️ Plastic bags and other plastic garbage thrown into the ocean kill as many as 1,000,000 sea creatures every year.



- ♻️ Recycling plastic saves twice as much energy as burning it in an incinerator.
- ♻️ Americans throw away 25,000,000,000 Styrofoam coffee cups every year.

GLASS

- ♻️ Every month, we throw out enough glass bottles and jars to fill up a giant skyscraper. All of these jars are recyclable!
- ♻️ The energy saved from recycling one glass bottle can run a 100-watt light bulb for four hours or a compact fluorescent bulb for 20 hours. It also causes 20% less air pollution and 50% less water pollution than when a new bottle is made from raw materials.
- ♻️ A modern glass bottle would take 4000 years or more to decompose -- and even longer if it's in the landfill.
- ♻️ Mining and transporting raw materials for glass produces about 385 pounds of waste for every ton of glass that is made. If recycled glass is substituted for half of the raw materials, the waste is cut by more than 80%.



INDUSTRY REFERENCE INFORMATON

<http://www.recycling-revolution.com/recycling-facts.html>

<http://www.ambitpacific.com/industrialrecycling/recycling/recycling-facts.html>

<http://www.google.com/search?sourceid>

<http://www.headwatersrecycle.com/why.html>

<http://www.ambitpacific.com/industrialrecycling/recycling/recycling-facts.html>

http://www.deq.state.ms.us/mdeq.nsf/page/Recycling_RecyclingTrivia?OpenDocument

www.students.arch.utah.edu/courses/Arch4011/Recycling%20Facts1.pdf

What is plastic made into?

Plastics are everywhere in our lives - our kitchens, our vehicles, our purses, and even inside our own bodies. Check out the many ways plastics can be found all around you:

- **Polyethylene terephthalate (PET) plastic #1:** Beverage bottles, food film, microwaveable packages
- **High-density polyethylene (HDPE) plastic #2:** Beverage containers, cleaning product containers, shopping bags, cabling, pipes, wood composites
- **Polyvinyl chloride (PVC) plastic #3:** Toys, pipes, shower curtains, flooring, windows, food films
- **Low-density polyethylene (LDPE) plastic #4:** Produce bags, flexible food containers, shrink wrap, lining for cardboard, wire coverings, toys
- **Polypropylene (PP) plastic #5:** Large and small appliances, food containers, auto parts, pipes
- **Polystyrene (PS) plastic #6 :** Food and beverage containers, CD and DVD cases, plates and cups
- **Polycarbonate (PC) plastic #7:** Beverage bottles, DVDs and CDs, eyeglasses, traffic lights, lenses

<http://www.ecolife.com>

GLASS RECYCLING PROCESSORS

Tennis Sanitation has managed mixed broken glass utilizing eCullet as our glass processor. This is in response to the City's request to create a glass contingency plan that achieves the overall goal of recycling 100% of the material into the original raw material.

We are excited to announce that eCullet has developed a technology that optically sorts broken glass mechanically without manually sorting. This results in minimizing the amount of glass being used for aggregate material.



MARKET REPORT

2011 was a good year for all commodities. Demand was up with markets in need of fiber and plastics. Fiber markets noticed a 30% drop in demand around October of 2011 but still retained the demand.

Aluminum and tin markets were also strong due to the strong demand for rigids on a local level.

Glass market remains strong especially now that there is a new local processor of broken glass in the Metro area. Their newest technology sorts broken glass using computerized optical sorters and a complex but innovative blower system. 90% of the broken glass can now be processed back into post-consumer food and beverage containers with ease.

The outlook for 2012

Though we had a good year in 2011 for all commodities, all of our markets anticipate a downward swing due to reduced demand.



ADDITIONAL ITEMS

RESIDUALS:

2011 Residuals (in tons) from recycling was as follows:

<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>TOTAL</u>
4 %	4 %	4 %	4 %	4 %	4 %	4 %	4 %	2.2 %	2.2 %	2.2 %	2.2 %	
7.41 tons	6.62 tons	7.94 tons	7.67 tons	8.31 tons	8.55 tons	8.07 tons	8.94 tons	4.50 tons	4.31 tons	5.05 tons	5.08 tons	82.43 tons

Residuals consisted of items such as foam, diapers and general garbage.

TRUCK WEIGHTS:

During the 2011 Calendar - none of our vehicles exceeded the maximum loaded weight of 40,000 pounds when hauling the recyclables collected from the residents of Maplewood. Weight tickets are available upon request.

RECYCLING SERVICE FEE:

The recycling service fee is \$1.75 per unit per month which is based upon the contracted price.

STORAGE OF EXTRA RECYCLABLE MATERIALS:

During the 2011 calendar year our recycling facility had sorted all recyclable materials within 45 days of processing to recycling markets. The only exception are the milk cartons - which are baled and stored until there is enough volume to meet the vendor's minimum shipping requirements.

SUMMARY OF YEAR-END RECYCLING REPORT

The 2011 Maplewood Year-end Recycling Report provides up-to-date information from the City's recycling activities over the past year. Each section of this report reflects the various ways data was collected, entered and calculated to contribute to meeting our goals and achievements.

In the report we have illustrated the composition of recyclables, itemized volumes of recyclables from both single family and multi-family dwellings as they relate to each break-out of each separate commodity. As well as estimate the impact the efforts of recycling has on our environment.

As we grow into 2012, we will maintain our traditional, core activities as well as newer areas of focus in developing ways to enhance our recycling program. These include the search for creative ways to overcome problems associated with contamination, increasing recycling volumes, as well as addressing ways to increase recycling participation.

Together with the support of The City of Maplewood we will achieve the goals - responding to the realities of today as well as to the challenges of tomorrow.



APPENDIX A

RECYCLING SUMMARY DATA (ALL)

2011 MAPLEWOOD RECYCLE TONNAGE DATA												2011 TOTALS			
MONTHLY DATA/RTE		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	UNITS	TYPE
		UNITS													
TOTAL TONS (MON)		43.68	42.68	43.95	43.47	59.06	46.79	48.67	59.46	45.98	47.06	52.65	48.56	582.01	Total TONS
TOTAL TONS (TUES)		27.63	21.78	31.88	27.36	33.84	27.08	26.66	34.78	26.74	27.28	34.24	28.47	347.74	Total TONS
TOTAL TONS (WED)		47.20	39.52	55.66	43.08	47.15	62.61	46.91	60.01	45.47	47.51	67.03	52.81	614.96	Total TONS
TOTAL TONS (THUR)		27.73	24.90	34.74	29.87	30.54	38.89	32.06	31.98	38.91	30.46	33.65	43.15	396.88	Total TONS
TOTAL TONS (FRI)		46.41	43.44	40.41	56.07	45.74	47.20	55.74	46.51	55.82	47.73	47.08	62.72	594.87	Total TONS
Single Family Percentage Break-out															
RECYCLED MATERIALS		Tons	Description												
PAPER		84.59	70.75	84.90	89.12	97.10	99.62	92.40	102.39	94.33	122.50	145.72	146.54	1229.96	TONS
ALUMINUM		5.08	4.25	5.09	5.35	5.83	5.98	5.54	6.14	5.66	2.10	2.50	2.52	56.04	TONS
TIN		8.46	7.08	8.49	8.91	9.71	9.96	9.24	10.24	9.43	4.03	4.79	4.82	95.16	TONS
PLASTICS		20.30	16.98	20.37	21.39	23.30	23.91	22.18	24.57	22.64	16.65	19.80	19.92	252.02	TONS
GLASS		43.99	36.79	44.15	46.34	50.49	51.80	48.05	53.24	49.05	26.29	31.27	31.45	512.91	TONS
TOTAL TONS		162.42	135.84	163.00	171.11	186.43	191.27	177.40	196.58	181.11	171.57	204.09	205.25	2146.09	TONS
# of HOMES ON ROUTE		9,193	9,193	9,193	9,193	9,193	9,193	9,193	9,193	9,193	9,193	9,193	9,193		
AVERAGE LBS / HOME /		35.33	29.55	35.46	37.23	40.56	41.61	38.60	42.77	39.40	37.33	44.40	44.65	38.91	Avg. Lbs. /Unit
Multi-Family Percentage Break-out															
RECYCLED MATERIALS		Tons	Description												
PAPER		17.74	15.41	18.42	10.80	11.06	11.67	12.62	13.98	12.13	17.33	18.30	18.22	177.68	TONS
ALUMINUM		1.03	0.92	1.11	0.65	0.66	0.70	0.76	0.84	0.73	0.30	0.31	0.31	8.32	TONS
TIN		1.72	1.54	1.84	1.08	1.11	1.17	1.26	1.40	1.21	0.57	0.60	0.60	14.11	TONS
PLASTICS		4.14	3.70	4.42	2.59	2.66	2.80	3.03	3.36	2.91	2.35	2.49	2.48	36.93	TONS
GLASS		8.97	8.01	9.58	5.62	5.75	6.07	6.56	7.27	6.31	3.72	3.93	3.91	75.70	TONS
TOTAL TONS		33.60	29.59	35.37	20.74	21.24	22.40	24.23	26.85	23.29	24.27	25.63	25.52	312.73	TONS
# of MF UNITS ON ROUTE		4,023	4,023	4,023	4,023	4,023	4,023	4,023	4,023	4,023	4,023	4,023	4,023		
AVERAGE LBS / HOME /		16.70	14.71	17.58	10.31	10.56	11.14	12.05	13.35	11.58	12.07	12.74	12.69	12.96	Avg. Lbs. /Unit
COMBINED BREAK-OUT															
RECYCLED MATERIALS		Tons	Description												
PAPER		96.48	86.16	103.32	99.93	108.17	111.29	105.02	116.37	106.46	139.83	164.02	164.76	1401.81	TONS
ALUMINUM		5.79	5.17	6.20	6.00	6.49	6.68	6.30	6.98	6.39	2.40	2.82	2.83	64.05	TONS
TIN		9.65	8.62	10.33	9.99	10.82	11.13	10.50	11.64	10.65	4.60	5.40	5.42	108.75	TONS
PLASTICS		23.15	20.68	24.80	23.98	25.96	26.71	25.20	27.93	25.55	19.00	22.29	22.39	287.64	TONS
GLASS		50.17	44.80	53.73	51.96	56.25	57.87	54.61	60.51	55.36	30.01	35.20	35.36	585.83	TONS
TOTAL TONS		185.24	165.43	198.38	191.86	207.69	213.68	201.63	223.43	204.41	195.84	229.73	230.76	2448.08	TONS
CARDBOARD & LINENS															
CARDBOARD		6,520	8,370	9,980	9,545	6,430	9,980	8,530	8,550	11,100	8,770	7,700	10,140	105,615	LBS
LINENS		1,055	263	637	748	404	630	86	442	683	380	468	421	6,217	LBS
TOTAL INQUIRIES		87	64	70	38	16	16	11	15	5	5	5	12	344	
% of contamination		4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	2.2%	2.2%	2.2%	2.2%	

APPENDIX B RECYCLING REPORT SUMMARY DATA (MULTI-FAMILY)

Apartment Name	Units	January		February		March		April		May		June		July		August		September		October		November		December		2011 TOTALS			
		Total Wgt. for mo.	Wgt./unit /Month	Total Wgt. for Year	Average Wgt. for Year																								
426 Frost Avenue	7	53	7.6	47	6.7	87	12.4	24	3.4	29	4.1	51	7.3	45	6.4	39	5.6	34	4.9	42	6.0	0	0	84	12.0	535	76.4		
mmas Place	13	180	13.8	96	7.4	48	3.7	178	13.7	191	14.7	114	8.8	110	8.5	233	18.0	151	11.6	169	13.0	253	19.5	169	13.0	51	3.9	1773	135.6
English Manor Apartments	37	613	16.6	454	12.3	454	12.3	426	11.5	433	11.7	440	11.9	398	10.7	582	15.7	540	14.6	651	17.6	541	14.6	524	14.2	6054	163.6		
Homestead at Maplewood	62	1431	23.1	987	16.0	1209	19.5	1075	17.3	721	11.6	581	9.2	701	11.3	753	12.1	444	7.2	625	10.1	423	6.7	456	7.2	9005	145.2		
Applewood Mobile Homes	17	369	21.7	251	14.8	306	18.0	102	6.0	164	9.6	102	6.0	97	5.7	134	7.8	109	6.4	566	33.3	321	19.0	456	27.0	2907	171.0		
Ark Edge Apartments	51	387	7.6	393	7.7	308	6.0	237	4.7	296	5.8	148	2.9	271	5.3	357	7.0	197	3.9	439	8.4	203	4.0	203	4.0	3400	66.7		
Arkview Court Apartments	72	1174	16.3	864	12.0	1006	14.0	887	12.3	1066	14.8	888	12.3	865	12.0	1071	14.9	1030	14.3	1014	14.1	794	11.0	769	11.0	11429	158.9		
Phoenix Treatment Center	1	221	221	161	161	80	80	113	113	136	136	113	113	133	133	311	311	111	111	101	101	85	85	101	101	1666	1666		
Greenwood Glen	96	2305	24.0	1849	19.3	2153	22.4	819	8.5	1044	10.9	835	8.7	2087	21.7	2599	27.0	2050	21.3	2366	24.5	1893	20.0	1893	20.0	21893	228.0		
Recreate Apartments	108	1307	12.1	1262	11.7	1284	11.9	778	7.2	1283	11.9	907	8.4	767	7.1	873	8.0	708	6.5	1335	12.3	1166	11.0	1200	11.0	12869	120.0		
Apple Pond Homes	168	2641	15.7	2001	12.0	1484	9.0	1259	7.5	1617	10.0	1140	6.8	1015	6.0	1478	8.8	1041	6.2	1724	10.3	1318	7.8	1589	9.5	18305	109.5		
Applewood Apartments	240	7765	32.4	6669	28.0	6997	29.1	1801	7.5	2571	10.7	2166	9.0	3239	13.5	3735	15.6	3062	12.8	3431	14.3	2805	11.7	2856	12.0	46996	195.8		
Applewood Manor	18	508	28.2	263	14.6	350	19.4	158	8.8	211	12.3	141	7.8	178	10.0	326	18.1	237	13.2	406	23.0	3014	56.0	270	15.0	4062	225.7		
Saint Paul's Monastery	70	1518	21.7	1078	15.3	704	10.1	326	4.7	597	8.5	434	6.2	419	6.0	524	7.5	419	6.0	338	4.8	270	3.9	270	3.9	4	6899	97.1	
Applewood Community Center	1	399	399	420	420	546	546	696	696	646	646	646	646	449	449	617	617	374	374	473	473	439	439	372	372	6077	6077		
Applewood City Hall	1	742	742	720	720	633	633	694	694	833	833	671	671	657	657	848	848	572	572	625	625	456	456	558	558	8011	8011		
Applewood Public Works	1	338	338	183	183	268	268	736	736	545	545	491	491	427	427	398	398	550	550	338	338	254	254	439	439	4966	4966		
Fire Station 2	1	160	160	209	209	172	172	152	152	178	178	127	127	127	127	76	76	89	89	169	169	135	135	85	85	1679	1679		
Zobbestone Court Apartments	74	356	4.8	385	5.2	542	7.3	259	3.5	259	3.5	283	3.8	180	2.4	283	3.8	206	2.8	297	4.0	227	3.1	244	3.3	3496	47.2		
Shiver Ridge Apartments	186	2050	11.0	1517	8.1	3362	18.1	1118	6.0	1097	5.9	995	5.4	995	5.4	1176	6.3	837	4.5	1614	8.7	1326	7.1	1396	7.5	17919	96.3		
Summer Hills Of Maplewood	45	815	18.1	793	17.6	1035	23.0	805	18.0	1005	22.3	724	16.1	1056	23.5	1109	25.0	845	19.0	689	15.3	698	15.5	698	15.5	10271	228.0		
Leaver Creek Condos	60	2027	34.0	1976	33.0	2282	38.0	849	14.2	973	16.2	803	13.4	956	16.1	800	13.3	626	10.4	855	14.3	1326	22.3	1030	17.0	14504	241.7		
Century Trails Apartments	40	72	1.8	121	3.0	220	5.5	258	6.5	338	8.5	242	6.0	347	8.7	434	11.0	326	8.2	279	7.0	349	8.7	279	7.0	3264	81.6		
Arkview Commons	98	198	2.0	113	1.2	269	2.7	158	1.6	188	2.0	129	1.3	92	1.0	154	1.6	116	1.2	116	1.2	279	3.0	349	3.6	314	3.3	2360	23.9
Woodview Apartments	180	2508	14.0	1298	7.2	2508	14.0	1010	5.6	1746	9.7	1455	8.1	1622	9.0	1696	9.4	1099	6.1	1361	7.6	1710	9.5	1222	6.8	19232	107.4		
Nature Center	1	197	197	258	258	182	182	51	51	51	51	26	26	26	26	31	31	15	15	15	15	70	70	52	52	17	17	975	975
Fire Station 1	1	37	37	64	64	41	41	22	22	31	31	9	9	9	9	70	70	0	0	96	96	52	52	87	87	579	579		
Irish Glen Apartments(MW)	60	466	7.8	518	8.6	559	9.3	313	5.2	417	7.0	492	8.2	314	5.2	400	6.7	300	5.0	686	11.4	499	8.3	458	7.7	5421	90.3		
Arboreal Pointe	108	437	4.0	466	4.3	621	5.7	539	5.0	539	5.0	826	7.6	630	5.8	665	6.1	385	3.5	458	4.2	416	3.8	458	4.2	6437	59.7		
Arboret Cottages	254	8009	31.5	7696	30.3	10709	42.1	4980	19.6	6425	25.3	6334	25.0	6334	25.0	4799	19.0	4799	19.0	4243	17.0	5242	21.0	4243	17.0	74169	292.3		
Concordia Arms	125	3077	24.6	2896	23.2	3559	28.5	2126	17.0	2037	16.1	2475	20.0	1734	14.0	2247	18.0	1853	15.0	1997	16.0	2267	18.0	1997	16.0	28264	225.3		
Heritage Square Condos	18	224	12.4	242	13.4	414	23.0	295	16.4	315	18.0	335	19.2	395	22.0	578	32.0	304	17.0	541	30.0	624	35.0	499	28.0	4765	264.8		
Apple Knoll Townhomes	57	554	10.0	390	6.8	499	8.8	263	4.6	352	6.2	326	5.7	479	8.4	752	13.2	489	8.6	551	10.0	790	14.0	510	9.0	5865	102.9		
Apple Ridge Apartments	100	972	10.0	1262	12.6	1566	15.7	713	7.1	744	7.4	961	9.6	938	9.4	1206	12.1	1027	10.3	624	6.2	707	7.1	666	6.7	11384	113.8		
Applewood Townhomes	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Logard Apartments	60	267	4.5	350	5.8	515	8.6	144	2.4	117	2.0	187	3.1	132	2.2	488	8.1	132	2.2	416	7.0	416	7.0	291	4.9	3455	57.4		
Seasons at Maplewood	150	653	4.3	653	4.3	1175	7.8	841	5.6	962	6.4	1202	8.0	1211	8.1	1348	9.0	809	5.4	707	4.7	915	6.1	749	5.0	11224	74.8		
Shelby Cove Apartments	80	935	11.7	633	7.9	1485	18.6	464	5.8	368	4.6	352	4.4	357	4.4	1130	14.1	1308	16.5	1186	15.0	1726	21.6	1518	19.0	11462	143.3		
Park	120	2142	17.8	2266	18.9	2832	23.6	2206	18.4	2208	18.4	2760	23.0	2338	19.5	2922	24.3	2338	19.5	1331	11.1	1706	14.2	1373	11.4	26421	220.2		
Millage on Woodlyn	60	1918	32.0	1918	32.0	2441	41.0	1355	23.0	1670	28.0	1936	32.0	1225	20.0	1670	28.0	1314	22.0	1227	20.0	1706	28.0	1310	22.0	19688	328.1		
Walker at Hazel Ridge	75	1803	24.0	2061	27.5	2014	27.0	914	12.2	1118	15.0	1346	18.0	1887	25.0	2297	31.0	1897	25.0	998	13.3	1206	16.0	936	12.0	18467	246.2		
Wyngate Apartments	50	1067	21.3	1375	27.5	1422	28.4	958	19.2	994	20.0	1030	21.0	884	18.0	884	18.0	547	11.0	416	8.4	541	11.0	541	11.0	10658	213.2		
860 McNameey Street	12	250	21.0	233	19.4	221	18.4	153	13.0	107	9.0	168	14.0	328	27.0	287	24.0	267	22.0	349	29.0	349	29.0	581	48.0	3292	274.3		
Trcade Apartments	27	377	14.0	274	10.1	356	13.2	342	13.0	244	9.0	317	12.0	239	9.0	292	11.0	226	8.0	523	19.0								

APPENDIX C

EXAMPLE OF MONTHLY REPORT LETTER

Tennis Sanitation, L.L.C.

651-459-1887

"Recycling is Everyone's Future"

January 14th, 2012

RE: DECEMBER 2011 - RECYCLING REPORT

Dear City of Maplewood Recycling Coordinator,

Tennis Sanitation is pleased to provide the following monthly recycling report detailing the materials that were collected, processed and delivered to recycling markets from both single family and multi-family dwellings.

The Community of Maplewood Recycled:

TYPE	Single Family Weight (tons)	Multi-Family Weight (tons)	NET Total Wgt	UNIT	DESCRIPTION
Paper:	146.54	18.22	164.76	tons	Includes cardboard, paper, newspaper, junk mail, boxboard, phonebooks, magazines and books.
Aluminum:	2.52	0.31	2.83	tons	Includes all aluminum cans
Tin:	4.82	0.60	5.42	tons	Includes all bi-metal and tin cans
Plastics:	19.92	2.48	22.39	tons	Includes all # 1 - # 7 food and beverage containers
Glass:	31.45	3.91	35.36	tons	Includes green, clear and brown colors
Total Tons:	205.24	25.52	230.76	Tons	Net total recycling for the month

Other fun facts:

TYPE	Single Family Weight (lbs)	Multi-Family Weight (lbs)	NET Calcs.	
Units:	9193	4023	13216	Units collected per week
Wgt/home:	44.65	12.69	28.67	lbs Average pounds per unit collected per month
Linens:	Combined	Combined	421.47	lbs Includes all clothing, garments and other linens
Cardboard:	Combined	Combined	10140.00	lbs Includes all accounts that have dumpster service

Average % of serviced accounts (SF) 58%

***Please note: the above average % of serviced accounts does not reflect the "consistent" frequency that the residents place out their recyclables as it relates to weekly collection - example: some residents may recycle only two times per month.*

Total inquiries for this month were: 12

PARK WEIGHTS	Name	lbs per month
	Harvest Park	0 lbs
	Wakefield Park	0 lbs
	Goodrich Park	0 lbs

No park data this month - parks closed for season.

Summary of report: This month illustrates resident's recycling efforts along with park weights. Contamination was minimal with only 2.2% that could not be recycled. Fiber Markets have taken their yearly adjustments showing the trend downward in addition to other commodities.

The above recycling break-out reflects the new composite study done on October 3rd, 2011.

Great job on your recycling efforts.

Sincerely,

Willie Tennis
Tennis Sanitation

APPENDIX D EXAMPLE OF MONTHLY MULTI-FAMILY REPORT

Pick-up Day	DECEMBER 2011		WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5		Total Wgt for mo. Units	Wgt/unit per Month	
	Maplewood Multi-Family	Appt Name	Number	Street Name	Units	# carts	Average Wgt/cart	Total Tare Wgt	# carts	Average Wgt/cart	Total Tare Wgt	# carts			Average Wgt/cart
Monday		1426 Frost Avenue	7		7	0.00	76.4	0	0.00	76.4	0	0.00	76.4	0	7
Monday		2163 Van Dyke Street	34		34	2.00	76.4	68	2.50	76.4	84	2.00	76.4	0	253
Monday		1249 Frisbie Avenue	37		37	4.50	76.4	152	3.50	76.4	118	4.00	76.4	0	51
Monday		1890 Sherrin Ave	62		62	2.00	76.4	68	4.50	76.4	135	2.00	76.4	0	423
Monday		1876 English Street	17		17	3.00	76.4	101	2.50	76.4	68	2.00	76.4	0	54
Monday		2025 Idle Street	51		51	2.00	76.4	68	1.00	76.4	34	2.00	76.4	0	423
Monday		360 Park Edge Apartments	72		72	5.50	76.4	186	6.00	76.4	203	7.00	76.4	0	203
Monday		2055 Phoenix Treatment Center	1		1	0.50	76.4	17	1.00	76.4	34	0.00	76.4	0	794
Monday		1512 Sherwood Glen	96		96	14.00	76.4	473	14.00	76.4	473	14.00	76.4	0	85
Monday		200 Greengate Apartments	108		108	8.00	76.4	270	10.00	76.4	338	5.00	76.4	0	1893
Monday		1854 Maple Pond Homes	168		168	9.50	76.4	321	10.50	76.4	355	8.00	76.4	0	1166
Monday		2391 Maplewood Apartments	240		240	19.00	76.4	642	22.50	76.4	761	18.50	76.4	0	1318
Monday		2266 Maplewood Manor	18		18	25.00	76.4	845	2.00	76.4	68	2.00	76.4	0	2805
Monday		2675 Saint Paul's Monastery	70		70	2.00	76.4	68	2.00	76.4	68	2.00	76.4	0	1014
Monday		Maplewood Community Center	1		1	4.00	76.4	135	3.00	76.4	101	3.00	76.4	0	270
Monday		Maplewood City Hall	1		1	5.00	76.4	169	1.50	76.4	51	5.00	76.4	0	439
Monday		Maplewood Public Works	1		1	2.00	76.4	68	1.50	76.4	51	2.50	76.4	0	456
Monday		Fire Station 2	1		1	2.00	76.4	68	0.00	76.4	0	1.00	76.4	0	254
Tuesday		366 Cobblestone Court Apartments	74		74	1.50	77.5	52	1.00	77.5	35	1.00	77.5	0	135
Tuesday		2330 Silver Ridge Apartments	186		186	10.00	77.5	349	7.00	77.5	244	8.00	77.5	0	227
Tuesday		935 Summer Hills Of Maplewood	45		45	4.00	77.5	140	4.00	77.5	105	3.00	77.5	0	1326
Tuesday		1225 Beaver Creek Condos	60		60	7.00	77.5	244	8.00	77.5	279	7.50	77.5	0	698
Tuesday		1730 Century Trails Apartments	40		40	2.00	77.5	70	2.00	77.5	70	2.00	77.5	0	170
Tuesday		1200 Lakewood Dr North	98		98	2.00	77.5	70	2.00	77.5	70	2.00	77.5	0	349
Tuesday		2575 Pondview Apartments	180		180	12.00	77.5	419	10.00	77.5	349	10.00	77.5	0	1710
Tuesday		Nature Center	1		1	0.50	77.5	17	0.00	77.5	0	1.00	77.5	0	52
Tuesday		1177 Birch Glen Apartments	60		60	0.50	77.5	17	0.50	77.5	17	0.50	77.5	0	52
Wednesday		3003 Cardinal Pointe	108		108	2.00	84.2	83	3.00	84.2	125	2.00	84.2	0	489
Wednesday		2355 Carefree Cottages	254		254	26.00	84.2	1082	24.00	84.2	998	22.00	84.2	0	416
Wednesday		2030 Concordia Arms	125		125	11.00	84.2	520	12.50	84.2	520	11.00	84.2	0	5242
Wednesday		7100 Heritage Square Condos	18		18	3.00	84.2	125	3.00	84.2	125	3.00	84.2	0	287
Wednesday		1880 Maple Knoll Townhomes	57		57	5.00	84.2	208	3.00	84.2	125	4.00	84.2	0	624
Wednesday		1895 Maple Ridge Apartments	100		100	6.00	84.2	250	2.00	84.2	83	3.00	84.2	0	790
Wednesday		2461 Maplewood Townhomes	31		31	0.50	84.2	21	1.00	84.2	42	1.00	84.2	0	707
Wednesday		1807 Norgard Apartments	150		150	4.00	84.2	166	5.00	84.2	208	4.00	84.2	0	104
Wednesday		1670 Seasons at Maplewood	80		80	9.00	84.2	374	9.00	84.2	374	9.00	84.2	0	416
Wednesday		1996 Sibley Cove Apartments	120		120	8.00	84.2	333	8.00	84.2	333	8.00	84.2	0	5242
Wednesday		2557 Town and Country Mobile Home Park	75		75	5.00	84.2	208	6.50	84.2	270	6.00	84.2	0	287
Wednesday		2122 Village on Woodlynn	60		60	8.00	84.2	333	10.00	84.2	416	9.50	84.2	0	1706
Wednesday		1752 Wyngate Apartments	50		50	3.00	84.2	125	1.00	84.2	42	3.00	84.2	0	1206
Thursday		1860 McInerney Street	12		12	1.00	100.7	58	2.00	100.7	116	3.00	100.7	0	541
Thursday		844 Arcadia Street	27		27	1.00	100.7	58	1.00	100.7	58	2.00	100.7	0	349
Thursday		1901 Rosoto Villa on Roselawn	70		70	10.25	100.7	596	11.00	100.7	639	11.00	100.7	0	2455
Thursday		1770 Western Hills	54		54	4.00	100.7	232	4.00	100.7	232	3.00	100.7	0	988
Thursday		350 Golden Star Apartments	109		109	4.50	100.7	261	2.50	100.7	145	3.00	100.7	0	610
Friday		89 Century Ridge	75		75	3.00	89.3	140	1.00	89.3	47	2.00	89.3	0	842
Friday		2465 Conmemora I	96		96	6.00	89.3	280	8.00	89.3	374	7.50	89.3	0	523
Friday		2455 Conmemora II	96		96	13.00	89.3	607	12.00	89.3	560	14.00	89.3	0	327
Friday		345 Maplewood Gardens	32		32	0.50	89.3	23	3.50	89.3	163	0.50	89.3	0	1424
Friday		370 McKnight Townhomes	190		190	25.50	89.3	1191	22.00	89.3	1027	21.50	89.3	0	2428

Total Wgt in lbs 52361
Total Wgt in tons 26.18
Total number of units 4023

APPENDIX E

EXAMPLE OF MONTHLY SINGLE FAMILY REPORT

Maplewood 2011 DECEMBER

MON RTE # 1						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	4.02	4.02	4.42	5.67	0.00	
Tons - Load 2	0.00	0.00	0.00	0.00	0.00	Net Total
TOTAL Tons	4.02	4.02	4.42	5.67	0.00	18.13
# of Stops	933	933	933	933	933	Averages
Not outs	394	388	408	401	0	398
% of Participation	58%	58%	56%	57%	100%	57%
Lbs per Stop Recycled	14.92	14.75	16.84	21.32	0.00	17

MONDAY						
Week 1	Week 2	Week 3	Week 4	Week 5		
TOTAL Tons	11.94	11.84	12.59	16.28	0.00	Net Total
# of Stops	2510	2510	2510	2510	2510	Averages
Not outs	1069	1058	1109	1007	0	1061
% of Participation	57%	58%	56%	60%	100%	58%
Lbs per Stop Recycled	16.57	16.31	17.97	21.66	0.00	18

MON RTE # 2						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	3.91	3.53	3.88	5.17	0.00	
Tons - Load 2	0.00	0.00	0.00	0.00	0.00	Net Total
TOTAL Tons	3.91	3.53	3.88	5.17	0.00	16.49
# of Stops	553	553	553	553	553	Averages
Not outs	247	234	259	237	0	244
% of Participation	55%	58%	53%	57%	100%	56%
Lbs per Stop Recycled	25.56	22.13	26.39	32.72	0.00	27

MON RTE # 3						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	4.01	4.29	4.29	5.44	0.00	
Tons - Load 2	0.00	0.00	0.00	0.00	0.00	Net Total
TOTAL Tons	4.01	4.29	4.29	5.44	0.00	18.03
# of Stops	1024	1024	1024	1024	1024	Averages
Not outs	428	436	442	369	0	419
% of Participation	58%	57%	57%	64%	100%	59%
Lbs per Stop Recycled	13.46	14.59	14.74	16.61	0.00	15

TUE RTE # 1						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	2.88	3.23	3.06	3.11	4.34	
Tons - Load 2	0.00	0.00	0.00	0.00	0.00	Net Total
TOTAL Tons	2.88	3.23	3.06	3.11	4.34	16.62
# of Stops	736	736	736	736	736	Averages
Not outs	362	348	343	369	330	350
% of Participation	51%	53%	53%	50%	55%	52%
Lbs per Stop Recycled	15.40	16.65	15.57	16.95	21.38	17

TUE RTE # 2						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	3.55	3.56	3.68	3.64	3.19	
Tons - Load 2	0.00	0.00	0.00	0.00	0.00	Net Total
TOTAL Tons	3.55	3.56	3.68	3.64	3.19	17.62
# of Stops	469	469	469	469	469	Averages
Not outs	167	148	167	168	156	161
% of Participation	64%	68%	64%	64%	67%	66%
Lbs per Stop Recycled	23.51	22.18	24.37	24.19	20.38	23

TUESDAY						
Week 1	Week 2	Week 3	Week 4	Week 5		
TOTAL Tons	6.43	6.79	6.74	6.75	7.53	Net Total
# of Stops	1205	1205	1205	1205	1205	Averages
Not outs	529	496	510	537	486	512
% of Participation	56%	59%	58%	55%	60%	58%
Lbs per Stop Recycled	19.02	19.15	19.40	20.21	20.95	20

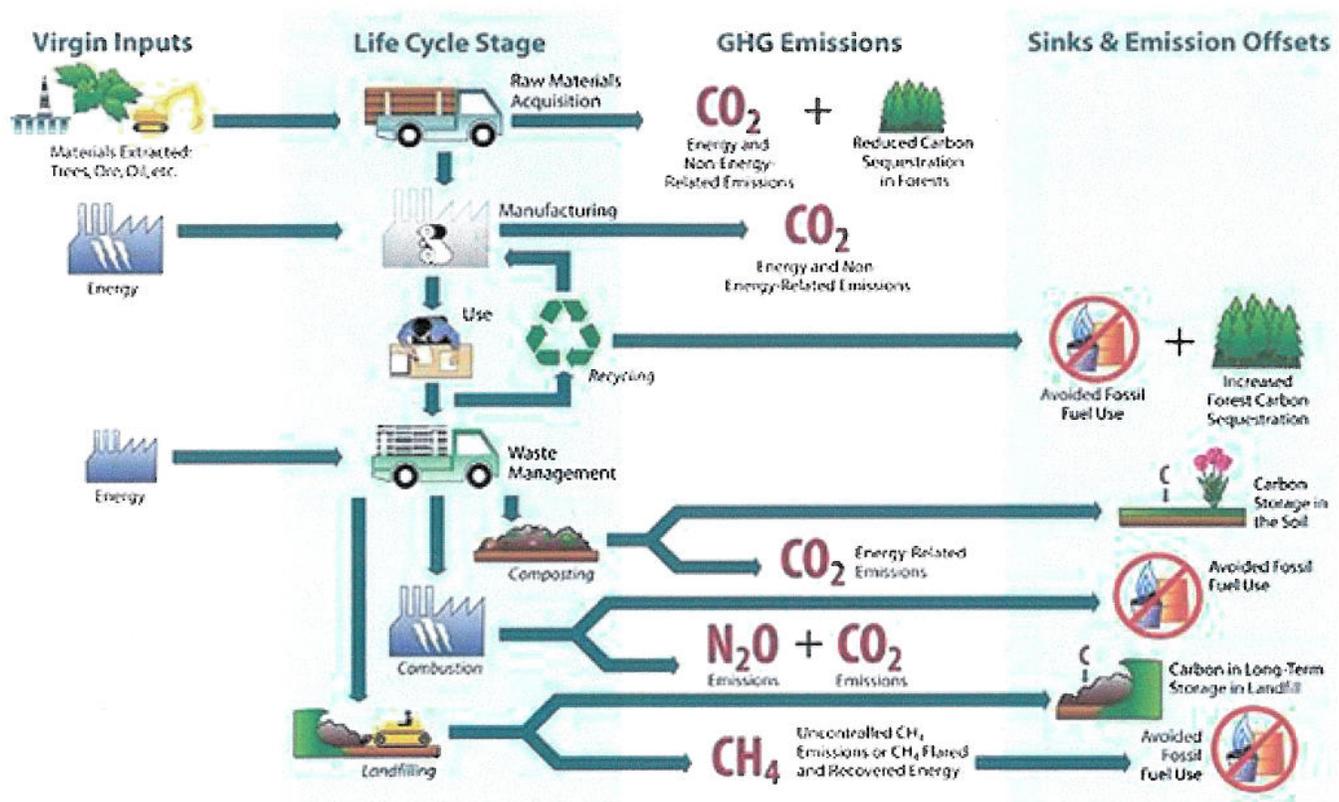
WED RTE # 1						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	4.11	4.28	4.28	4.08	4.30	
Tons - Load 2	0.00	0.00	0.00	0.00	3.04	Net Total
TOTAL Tons	4.11	4.28	4.28	4.08	7.34	24.09
# of Stops	516	516	516	516	516	Averages
Not outs	189	183	190	195	154	182
% of Participation	63%	65%	63%	62%	70%	65%
Lbs per Stop Recycled	25.14	25.71	26.26	25.42	40.55	29

WEDNESDAY						
Week 1	Week 2	Week 3	Week 4	Week 5		
TOTAL Tons	12.40	12.72	12.90	12.62	16.39	Net Total
# of Stops	1989	1989	1989	1989	1989	Averages
Not outs	782	744	782	817	693	764
% of Participation	61%	63%	61%	59%	65%	62%
Lbs per Stop Recycled	20.55	20.43	21.38	21.54	25.29	22

WED RTE # 2						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	3.90	4.01	3.96	3.99	3.16	
Tons - Load 2	0.00	0.00	0.00	0.00	1.46	Net Total
TOTAL Tons	3.90	4.01	3.96	3.99	4.62	20.48
# of Stops	707	707	707	707	707	Averages
Not outs	264	250	271	290	233	262
% of Participation	63%	65%	62%	59%	67%	63%
Lbs per Stop Recycled	17.61	17.55	18.17	19.14	19.49	18

WED RTE # 3						
Week 1	Week 2	Week 3	Week 4	Week 5		
Tons - Load 1	4.39	4.43	4.66	4.55	2.94	
Tons - Load 2	0.00	0.00	0.00	0.00	1.49	Net Total
TOTAL Tons	4.39	4.43	4.66	4.55	4.43	22.46
# of Stops	766	766	766	766	766	Averages
Not outs	329	311	321	332	306	320
% of Participation	57%	59%	58%	57%	60%	58%
Lbs per Stop Recycled	20.09	19.47	20.94	20.97	19.26	20

APPENDIX F FOUR STAGES OF PRODUCT LIFE CYCLE



The image above illustrates the four main stages of product life-cycles, all of which provide opportunities for GHG emissions and/or offsets. These stages are: raw material acquisition, manufacturing, recycling, and waste management.

Raw Material Acquisition. All products use inputs of raw materials, such as metal ore, petroleum, trees, etc. Extracting and transporting these materials entails the combustion of fossil fuels for energy, which results in emissions of carbon dioxide. These fossil fuels must be extracted themselves, which requires additional energy use.

Manufacture. The processes that transform raw materials into products require the combustion of fossil fuels for energy. Again, energy use produces GHG emissions both directly from the combustion of fossil fuels (mainly in the form of carbon dioxide) and from the upstream energy used to obtain and transport those fossil fuels. In addition, some manufacturing processes release other GHGs, although the type and amount of these emissions are specific to the manufacturing processes for each material.

Recycling. Once a product has been used, it can be recycled into new products. While manufacturing products from recycled inputs still requires energy, fewer raw materials are necessary. GHG emissions are therefore offset by the avoided fossil fuel use for raw material acquisition. In addition, for products that require wood or paper inputs, recycling reduces the need to cut down trees, increasing carbon sequestration in forests.

Waste Management. If a product is not recycled at the end of its useful life, it goes through one of three waste management options: composting, combustion, and landfilling. All three use energy for transporting and managing the waste, but they produce additional GHGs to varying degrees.

Composting – an option for organic materials such as food scraps and yard waste – releases some non-biogenic carbon dioxide associated with transporting and turning the compost. However, some of the carbon contained in organic materials is returned and stored in the soil and therefore not released into the atmosphere.

Combustion releases both carbon dioxide and nitrous oxide (a GHG that is 310 times more potent than carbon dioxide). However, some of the energy released during combustion can be harnessed and used to power other processes, which results in offset GHG emissions from avoided fossil fuel use.

Landfilling, the most common waste management practice, results in the release of methane from the anaerobic decomposition of organic materials. Methane is 21 times more potent a GHG than carbon dioxide. However, landfill methane is also a source of energy, and some landfills capture and use it for energy. In addition, many materials in landfills do not decompose fully, and the carbon that remains is sequestered in the landfill and not released into the atmosphere.

<http://www.epa.gov/climatechange/wycd/waste/lifecycle.html>

MAPLEWOOD RESIDENTS WHO WERE ISSUED EDUCATIONAL TAGS IN 2011

** Resident who was tagged more than once

<u>ADDRESS</u>	<u>ROUTE DAY</u>	<u>REASON</u>	<u>DATE</u>
2425 Springside Dr D	Friday		1/7/2011
619 Sterling St S	Friday		1/7/2011
1984 Clark St	Thursday		1/6/2011
Maplewood Mobile Homes	Monday		1/10/2001
1785 Clarence St	Monday		1/10/2011
1082 Lakewood Dr S	Friday	Styrofoam In Bin	1/14/2011
503 Dorland	Friday	Styrofoam In Bin	1/14/2011
516 Lakewood Dr S	Friday	Styrofoam In Bin	1/14/2011
2438 Pond Ave	Friday	Wood In Bin	1/14/2011
1770 Atlantic St	Monday	Styrofoam In Bin	1/17/2011
1421 Price Ave	Monday	Styrofoam In Bin	1/17/2011
1700 Howard St N	Monday	Styrofoam In Bin	1/17/2011
1984 Ripley Ave	Monday	Wood In Bin	1/17/2011
2381 Brenner Ave	Wednesday	Styrofoam In Bin	1/19/2011
2895 Mary Ln	Wednesday	Styrofoam In Bin	1/19/2011
2215 Hendry Pl	Thursday	Air Filter In Bin	1/20/2011
513 Crestview Dr S	Friday	Pizza Box	1/21/2011
331 Parkview Ln S	Friday	Pizza Box	1/21/2011
2215 Ide Ct	Monday	Styrofoam In Bin	1/24/2011
1510 Cope Ave E	Monday	Furnace Filter	1/24/2011
1916 Kingston	Monday	Plastic Bags In Cart	1/24/2011
2317 Case Ave	Tuesday	Battery In Cart	1/25/2011
1739 McMenemy St N	Thursday	Styrofoam In Bin	1/27/2011
519 Crestview Dr S	Friday	Pizza Box	1/28/2011
429 Marnie St	Friday	Pizza Box	1/28/2011
2317 Case Ave	Tuesday	Battery In Bin	2/1/2011
570 Crestview	Friday	Styrofoam In Bin	2/4/2011
1768 Myrtle St	Monday	Plastic Bag	2/7/2011
2225 Larpenteur Ave E	Monday	Plastic Bag	2/7/2011
1875 Howard St N	Monday	Pizza Box & Plastic Bag	2/7/2011
1769 Beebe Rd	Monday	Plastic Bag	2/7/2011
1907 Price Ave	Monday	Plastic Bag	2/7/2011
1936 Kingston Ave E	Monday	Plastic Bag	2/7/2011
1996 Kingston Ave E	Monday	Plastic Bag	2/7/2011
1942 Price Ave	Monday	Plastic Bag	2/7/2011
1912 County Road B E	Monday	Plastic Bag	2/7/2011
2001 Cope Ave E	Monday	Plastic Bag	2/7/2011
1917 County Road B E	Monday	Plastic Bag	2/7/2011
2203 Craig Pl	Monday	Plastic Bag	2/7/2011
2262 Craig Pl	Monday	Plastic Bag	2/7/2011
1968 Cope Ave E	Monday	Pizza Box	2/7/2011
2167 Ariel St	Monday	Plastic Bag	2/7/2011
2140 Duluth St	Monday	Plastic Bag	2/7/2011

2057 Duluth St	Monday	Plastic Bag	2/7/2011
1225 Skillman Ave E	Monday	Styrofoam In Bin	2/7/2011
2007 Chambers St	Monday	Plastic Bag	2/7/2011
1988 Duluth St	Monday	Plastic Bag	2/7/2011
2092 Duluth St	Monday	Plastic Bag	2/7/2011
2126 Atlantic St	Monday	Plastic Bag	2/7/2011
1761 English St	Monday	Plastic Bag	2/7/2011
1758 Edward St	Monday	Plastic Bag	2/7/2011
1828 Walter St	Monday	Plastic Bag	2/7/2011
1844 Walter St	Monday	Plastic Bag	2/7/2011
1700 East Shore Dr	Monday	Plastic Bag	2/7/2011
1333 Larpentuer	Monday	Plastic Bag	2/7/2011
1766 Hagen Dr N	Monday	Plastic Bag & Styrofoam	2/7/2011
1855 Barclay St	Monday	Plastic Bag	2/7/2011
1883 Hazelwood St	Monday	Plastic Bag	2/7/2011
1341 Ripley Ave	Monday	Plastic Bag	2/7/2011
1752 Gulden Pl	Monday	Plastic Bag	2/7/2011
1780 Gulden Pl	Monday	Plastic Bag	2/7/2011
1435 Price Ave	Monday	Plastic Bag	2/7/2011
1375 Larpenteur Ave E	Monday	Plastic Bag	2/7/2011
1406 Price Ave	Monday	Plastic Bag	2/7/2011
1871 Maryknoll Ave	Monday	Plastic Bag	2/7/2011
1855 Summer Ave E	Monday	Plastic Bag	2/7/2011
1831 White Bear Ave N	Monday	Plastic Bag	2/7/2011
1685 Lark Ave	Monday	Plastic Bag	2/7/2011
1640 Sandhurst Dr E	Monday	Plastic Bag	2/7/2011
Maple Park Shores	Monday	Plastic Bag	2/7/2011
1741 Laurie Rd E	Monday	Plastic Bag	2/7/2011
1714 Lark Ave	Monday	Plastic Bag	2/7/2011
2183 German St	Monday	Plastic Bag	2/7/2011
1493 Cope Ave E	Monday	Plastic Bag	2/7/2011
1362 Cope Ave E	Monday	Plastic Bag	2/7/2011
1395 Laurie Rd E	Monday	Plastic Bag	2/7/2011
1394 Laurie Rd E	Monday	Window Blinds	2/7/2011
2170 McAfee Cir	Monday	Plastic Bag	2/7/2011
2182 McAfee Cir	Monday	Plastic Bag	2/7/2011
1995 Clarence St	Monday	Plastic Bag	2/7/2011
1678 Rosewood Ave N	Monday	Plastic Bag	2/7/2011
2125 White Bear Ave N	Monday	Styrofoam In Bin	2/7/2011
1997 White Bear Ave N	Monday	Plastic Bag	2/7/2011
1713 Rosewood Ave N	Monday	Plastic Bag	2/7/2011
1954 Hazelwood St	Monday	Plastic Bag	2/7/2011
1993 Dieter St	Monday	Plastic Bag	2/7/2011
1940 Barclay St	Monday	Plastic Bag	2/7/2011
1973 Ide St	Monday	Plastic Bag	2/7/2011
2054 English St	Monday	Plastic Bag	2/7/2011
1187 Lealand Rd	Monday	Plastic Bag	2/7/2011

1264 County Road B E	Monday	Plastic Bag	2/7/2011
2480 Maryland	Tuesday	Plastic Bag	2/8/2011
1289 Farell St N	Tuesday	Plastic Bag	2/8/2011
2269 Arlington Ave E	Tuesday	Plastic Bag	2/8/2011
1463 Myrtle Ct	Tuesday	Plastic Bag	2/8/2011
2307 Nebraska Ave E	Tuesday	Plastic Bag	2/8/2011
1572 Lakewood Dr	Tuesday	Pizza Box	2/8/2011
2292 Larpenteur Ave E	Tuesday	Plastic Bag	2/8/2011
1420 Mary St N	Tuesday	Plastic Bag	2/8/2011
2524 Montana Ave E	Tuesday	Plastic Bag	2/8/2011
2533 Montana Ave E	Tuesday	Plastic Bag	2/8/2011
1580 Sterling St N	Tuesday	Plastic Bag	2/8/2011
1490 Mary St N	Tuesday	Plastic Bag	2/8/2011
1586 Mary St N	Tuesday	Plastic Bag	2/8/2011
2706 Margaret Ave E	Tuesday	Plastic Bag	2/8/2011
2663 Margaret Ave E	Tuesday	Plastic Bag	2/8/2011
910 Bartelmy Ln	Tuesday	Plastic Bag	2/8/2011
2725 7th St E	Tuesday	Plastic Bag	2/8/2011
1030 Ferndale St N	Tuesday	Plastic Bag	2/8/2011
1127 Ferndale St N	Tuesday	Plastic Bag	2/8/2011
2503 Stillwater Rd	Tuesday	Plastic Bag	2/8/2011
1017 Sterling St N	Tuesday	Plastic Bag	2/8/2011
740 Meyer	Tuesday	Plastic Bag	2/8/2011
765 Meyer St	Tuesday	Plastic Bag	2/8/2011
1060 Lakewood Dr N	Tuesday	Plastic Bag	2/8/2011
3020 Carey Heights Dr	Wednesday	Plastic Bag	2/9/2011
2917 Frank St	Wednesday	Plastic Bag	2/9/2011
3079 Walter St	Wednesday	Plastic Bag	2/9/2011
3013 Walter St	Wednesday	Plastic Bag	2/9/2011
964 Kohlman Ln	Wednesday	Plastic Bag	2/9/2011
2764 Keller Pkwy	Wednesday	Plastic Bag	2/9/2011
2626 Keller Pkwy	Wednesday	Plastic Bag	2/9/2011
915 Palm Cir	Wednesday	Plastic Bag	2/9/2011
987 Demont Ave E	Wednesday	Plastic Bag	2/9/2011
963 Demont Ave E	Wednesday	Plastic Bag	2/9/2011
2487 Cypress St	Wednesday	Plastic Bag	2/9/2011
2474 Adele St	Wednesday	Plastic Bag	2/9/2011
1017 Demont Ave E	Wednesday	Plastic Bag	2/9/2011
2600 Knollwood Ct N	Wednesday	Plastic Bag	2/9/2011
2620 Forest St	Wednesday	Plastic Bag	2/9/2011
2804 Southlawn Dr	Wednesday	Plastic Bag	2/9/2011
2574 Hazelwood St	Wednesday	Plastic Bag	2/9/2011
1343 County Road C E	Wednesday	Plastic Bag	2/9/2011
2601 English St	Wednesday	Plastic Bag	2/9/2011
1499 Brooks Ave E	Wednesday	Plastic Bag	2/9/2011
2481 Flandrau St	Wednesday	Plastic Bag	2/9/2011
1548 Gervais Ave	Wednesday	Plastic Bag	2/9/2011

2611 Ariel St	Wednesday	Plastic Bag	2/9/2011
400 Kingston	Thursday	Plastic Bag	2/10/2011
580 Bellwood Ave	Thursday	Plastic Bag	2/10/2011
633 Larpenteur Ave E	Thursday	Plastic Bag	2/10/2011
1855 Kenwood Dr E	Thursday	Plastic Bag	2/10/2011
935 Parkway Dr	Thursday	Plastic Bag	2/10/2011
122 Skillman Ave E	Thursday	Plastic Bag	2/10/2011
115 Mount Vernon Ave	Thursday	Plastic Bag	2/10/2011
1943 Jackson St	Thursday	Plastic Bag	2/10/2011
1845 Beaumont St	Thursday	Plastic Bag	2/10/2011
2220 Kenwood Ct	Thursday	Plastic Bag	2/10/2011
2185 Kenwood Ct	Thursday	Plastic Bag	2/10/2011
2145 McMenemy St N	Thursday	Pizza Box	2/10/2011
2087 McMenemy St N	Thursday	Plastic Bag	2/10/2011
1767 McMenemy St N	Thursday	Plastic Bag	2/10/2011
1750 Agate St	Thursday	Plastic Bag	2/10/2011
1772 Agate	Thursday	Food Waste	2/10/2011
1754 Onacrest Curve	Thursday	Plastic Bag	2/10/2011
1831 Onacrest Ct	Thursday	Plastic Bag	2/10/2011
1821 Onacrest Ct	Thursday	Plastic Bag	2/10/2011
1982 Edgerton St	Thursday	Plastic Bag	2/10/2011
2017 Arcade St	Thursday	Plastic Bag	2/10/2011
364 Toenjes Pl E	Thursday	Plastic Bag	2/10/2011
2088 Bradley St	Thursday	Plastic Bag	2/10/2011
77 Kingston Ave E	Thursday	Plastic Bag	2/10/2011
501 Dorland Rd S	Friday	Plastic Bag	2/11/2011
672 Sterling St S	Friday	Plastic Bag	2/11/2011
663 Ferndale St S	Friday	Plastic Bag	2/11/2011
2401 Linwood Ave	Friday	Plastic Bag	2/11/2011
2478 Hillwood Dr	Friday	Plastic Bag	2/11/2011
2368 Mailand Rd	Friday	Plastic Bag	2/11/2011
2423 Hillwood Dr	Friday	Plastic Bag	2/11/2011
347 Parkview Ln S	Friday	Plastic Bag	2/11/2011
2412 King St	Friday	Plastic Bag	2/11/2011
2446 King St	Friday	Plastic Bag	2/11/2011
416 O'Day St S	Friday	Plastic Bag	2/11/2011
2595 Pond Ave	Friday	Plastic Bag	2/11/2011
2661 Mayer Ln	Friday	Plastic Bag	2/11/2011
2538 Mayer Ln	Friday	Plastic Bag	2/11/2011
218 Ferndale St N	Friday	Plastic Bag	2/11/2011
2298 Snowshoe Ln	Friday	Plastic Bag	2/11/2011
1151 Lakewood Dr S	Friday	Plastic Bag	2/11/2011
2465 Carver Ave	Friday	Plastic Bag	2/11/2011
1062 Lakewood Dr S	Friday	Plastic Bag	2/11/2011
1032 Lakewood Dr S	Friday	Plastic Bag	2/11/2011
2444 Mamie Ave	Friday	Plastic Bag	2/11/2011
2549 Nemitz Ave	Friday	Plastic Bag	2/11/2011

2641 Red Pine Cir E	Friday	Plastic Bag	2/11/2011
924 Ferndale St N	Friday	Plastic Bag	2/11/2011
850 Ferndale St S	Friday	Plastic Bag	2/11/2011
2495 Highwood Ave	Friday	Plastic Bag	2/11/2011
2261 Valley View Ave	Friday	Plastic Bag	2/11/2011
2574 Dahl Ave E	Friday	Plastic Bag	2/11/2011
1587 Sandhurst Dr E	Monday	Plastic Bag	2/14/2011
1497 Lark Ave	Monday	Plastic Bag	2/14/2011
1515 Sandhurst Dr E	Monday	Plastic Bag	2/14/2011
2176 Mcafee Cir	Monday	Plastic Bag	2/14/2011
1442 Sandhurst Dr E	Monday	Plastic Bag	2/14/2011
1361 Belmont Ln E	Monday	Plastic Bag	2/14/2011
1428 Belmont Ln E	Monday	Plastic Bag	2/14/2011
1466 Belmont Ln E	Monday	Plastic Bag	2/14/2011
2005 Barclay St	Monday	Plastic Bag	2/14/2011
1974 Manton St	Monday	Plastic Bag	2/14/2011
2111 Prosperity Rd	Monday	Plastic Bag	2/14/2011
1724 Burke Ave E	Monday	Plastic Bag	2/14/2011
1954 Hazelwood St **	Monday	Plastic Bag	2/14/2011
1312 Burke Cir E	Monday	Plastic Bag	2/14/2011
1252 Cope Ave E	Monday	Plastic Bag	2/14/2011
1227 Lealand Rd	Monday	Plastic Bag	2/14/2011
1174 County Road B E	Monday	Plastic Bag	2/14/2011
1887 Lakewood Dr N	Monday	Plastic Bag	2/14/2011
2307 Kingston Ave E	Monday	Plastic Bag	2/14/2011
1761 Myrtle St	Monday	Plastic Bag	2/14/2011
1768 Myrtle St	Monday	Plastic Bag	2/14/2011
1757 Lakewood Dr N	Monday	Pizza Box	2/14/2011
1714 Howard St N	Monday	Plastic Bag	2/14/2011
1871 McKnight Rd N	Monday	Plastic Bag	2/14/2011
1989 Kingston Ave E	Monday	Plastic Bag	2/14/2011
1997 Price Ave	Monday	Plastic Bag	2/14/2011
1951 Larpenteur Ave E	Monday	Pizza Box	2/14/2011
1972 Stanich Ct	Monday	Plastic Bag	2/14/2011
2245 Ariel St	Monday	Plastic Bag	2/14/2011
2167 Ariel St **	Monday	Plastic Bag	2/14/2011
1883 County Road B E	Monday	Plastic Bag	2/14/2011
2131 English St	Monday	Plastic Bag	2/14/2011
2043 Duluth St	Monday	Plastic Bag	2/14/2011
2037 Duluth St	Monday	Plastic Bag	2/14/2011
2007 Chambers St **	Monday	Plastic Bag	2/14/2011
1218 Skillman Ave E	Monday	Plastic Bag	2/14/2011
1280 Belmont Ln E	Monday	Plastic Bag	2/14/2011
1198 Frisbie Ave	Monday	Plastic Bag	2/14/2011
1770 Edward St	Monday	Plastic Bag	2/14/2011
1384 Ripley Ave	Monday	Wood In Bin	2/14/2011
1854 Ide St	Monday	Plastic Bag	2/14/2011

1876 Barclay St	Monday	Plastic Bag	2/14/2011
1882 Barclay St	Monday	Plastic Bag	2/14/2011
1477 Ripley Ave	Monday	Plastic Bag	2/14/2011
2321 Tilsen St N	Tuesday	Plastic Bag	2/15/2011
2480 Maryland Ave **	Tuesday	Plastic Bag	2/15/2011
1265 Mayhill Rd	Tuesday	Plastic Bag	2/15/2011
2269 Arlington Ave E **	Tuesday	Plastic Bag	2/15/2011
1463 Myrtle Ct **	Tuesday	Plastic Bag	2/15/2011
1649 Lakewood Dr N	Tuesday	Plastic Bag	2/15/2011
2420 Tevlin Ct E	Tuesday	Plastic Bag & Food Waste	2/15/2011
1463 Mary St N	Tuesday	Plastic Bag	2/15/2011
2458 Arlington Ave E	Tuesday	Plastic Bag	2/15/2011
2484 Montana Cir E	Tuesday	Plastic Bag	2/15/2011
1460 Mary St N	Tuesday	Plastic Bag	2/15/2011
1480 Mary St N	Tuesday	Plastic Bag	2/15/2011
1570 Mary St N	Tuesday	Plastic Bag	2/15/2011
2695 Fremont Ave	Tuesday	Plastic Bag	2/15/2011
784 Mary St N	Tuesday	Plastic Bag	2/15/2011
2651 Brand Ave E	Tuesday	Plastic Bag	2/15/2011
2703 Midvale Pl	Tuesday	Plastic Bag	2/15/2011
2697 Midvale Pl	Tuesday	Plastic Bag	2/15/2011
2675 Midvale Pl	Tuesday	Plastic Bag	2/15/2011
740 Meyer St **	Tuesday	Plastic Bag	2/15/2011
834 Mary St N	Tuesday	Plastic Bag	2/15/2011
2424 Bush Ave	Tuesday	Plastic Bag	2/15/2011
735 Bartelmy Ln	Tuesday	Plastic Bag	2/15/2011
808 Bartelmy Ln	Tuesday	Plastic Bag	2/15/2011
2238 County Road D E	Wednesday	Plastic Bag	2/16/2011
2412 Gall Ave	Wednesday	Plastic Bag	2/16/2011
2354 County Road D	Wednesday	Plastic Bag	2/16/2011
2485 Brenner Ave	Wednesday	Plastic Bag	2/16/2011
2381 Brenner Ave	Wednesday	Plastic Bag	2/16/2011
2430 Standridge Ave	Wednesday	Plastic Bag	2/16/2011
2939 Mary St	Wednesday	Plastic Bag	2/16/2011
2921 Mary	Wednesday	Plastic Bag	2/16/2011
2946 Chippewa Ave	Wednesday	Plastic Bag	2/16/2011
2443 Standridge Ave	Wednesday	Pizza Box	2/16/2011
2399 Standridge Ave	Wednesday	Plastic Bag	2/16/2011
		Plastic Bag/Pizza	
2335 Standridge Ave	Wednesday	Box/Styrofoam	2/16/2011
2328 Standridge Ave	Wednesday	Plastic Bag	2/16/2011
2984 Beebe Pkwy	Wednesday	Plastic Bag	2/16/2011
2935 McKnight Rd	Wednesday	Plastic Bag	2/16/2011
2231 Beam Ave	Wednesday	Plastic Bag	2/16/2011
2225 Beam Ave	Wednesday	Plastic Bag	2/16/2011
2197 Beam	Wednesday	Styrofoam In Bin	2/16/2011

2810 White Bear Ave	Wednesday	Plastic Bag	2/16/2011
2211 Radatz Ave	Wednesday	Styrofoam In Bin	2/16/2011
2191 Radatz Ave	Wednesday	Plastic Bag	2/16/2011
1193 Beam Ave	Wednesday	Plastic Bag	2/16/2011
1219 Duluth Ct	Wednesday	Plastic Bag	2/16/2011
2993 Edward St	Wednesday	Plastic Bag	2/16/2011
3024 Walter St	Wednesday	Plastic Bag	2/16/2011
2654 Keller Pkwy	Wednesday	Plastic Bag	2/16/2011
893 Connor Ct E	Wednesday	Plastic Bag	2/16/2011
2487 Cypress St **	Wednesday	Plastic Bag	2/16/2011
2600 Knollwood Ct N **	Wednesday	Plastic Bag	2/16/2011
2831 Southlawn Dr	Wednesday	Plastic Bag	2/16/2011
2676 Van Dyke St	Wednesday	Plastic Bag	2/16/2011
1895 County Road C E	Wednesday	Plastic Bag	2/16/2011
2470 Clarence St	Wednesday	Plastic Bag	2/16/2011
1573 Sextant Ave	Wednesday	Plastic Bag	2/16/2011
1579 Gervais Ave	Wednesday	Plastic Bag	2/16/2011
2540 Flandrau St	Wednesday	Plastic Bag	2/16/2011
2587 Ariel St	Wednesday	Plastic Bag	2/16/2011
804 Kenwood Ln	Thursday	Plastic Bag	2/17/2011
721 Skillman Ave E	Thursday	Plastic Bag	2/17/2011
2024 Greenbrier St	Thursday	Plastic Bag	2/17/2011
1982 Edgerton St **	Thursday	Plastic Bag	2/17/2011
2124 Greenbrier St	Thursday	Trash In Bin	2/17/2011
350 Skillman Ave E	Thursday	Plastic Bag	2/17/2011
1722 Gurney St	Thursday	Plastic Bag	2/17/2011
1715 Beaumont St	Thursday	Plastic Bag	2/17/2011
366 Summer Ln E	Thursday	Plastic Bag	2/17/2011
385 Kingston Ave E	Thursday	Plastic Bag	2/17/2011
1722 Edgerton St	Thursday	Plastic Bag	2/17/2011
633 Larpenteur Ave E **	Thursday	Plastic Bag	2/17/2011
1881 Edgerton St	Thursday	Plastic Bag	2/17/2011
206 Kenwood Dr E	Thursday	Plastic Bag	2/17/2011
736 Roselawn Ave E	Thursday	Plastic Bag	2/17/2011
1999 Jackson St	Thursday	Plastic Bag	2/17/2011
2100 Arcade St	Thursday	Plastic Bag	2/17/2011
1722 Agate St	Thursday	Plastic Bag	2/17/2011
119 Larpenteur Ave E	Thursday	Pizza Box	2/17/2011
1748 Onacrest Curve	Thursday	Pizza Box & Styrofoam	2/17/2011
1854 Onacrest Ct	Thursday	Pizza Box	2/17/2011
104 Bellwood Ave	Friday	Plastic Bag	2/18/2011
53 Sterling St N	Friday	Pizza Box	2/18/2011
663 Ferndale St S **	Friday	Plastic Bag	2/18/2011
2419 Oakridge Ln	Friday	Plastic Bag	2/18/2011
2468 Hillwood Dr	Friday	Plastic Bag	2/18/2011
584 Crestview Dr S	Friday	Plastic Bag	2/18/2011
374 Crestview Dr S	Friday	Plastic Bag	2/18/2011

365 High Point Curve S	Friday	Plastic Bag	2/18/2011
377 High Point Curve S	Friday	Plastic Bag	2/18/2011
377 High Point Curve S **	Friday	Plastic Bag	2/18/2011
383 High Point Curve S	Friday	Styrofoam In Bin	2/18/2011
2415 Pond Ave	Friday	Plastic Bag	2/18/2011
457 Crestview Dr S	Friday	Plastic Bag	2/18/2011
416 O'Day St S **	Friday	Plastic Bag	2/18/2011
457 O'Day Cir S	Friday	Plastic Bag	2/18/2011
426 Mary Ln	Friday	Plastic Bag	2/18/2011
2588 Linwood Ave	Friday	Plastic Bag	2/18/2011
2330 Carver Ave	Friday	Plastic Bag	2/18/2011
1323 Dorland Rd S	Friday	Plastic Bag	2/18/2011
1331 Dorland Rd S	Friday	Plastic Bag	2/18/2011
1355 Dorland Rd S	Friday	Plastic Bag	2/18/2011
2362 Heights Ave	Friday	Plastic Bag	2/18/2011
2397 Schadt Dr	Friday	Plastic Bag	2/18/2011
2387 Snowshoe Ct	Friday	Plastic Bag	2/18/2011
2455 Carver Ave	Friday	Plastic Bag	2/18/2011
2441 Nemitz Ave	Friday	Styrofoam In bin	2/18/2011
2714 Highwood Ave	Friday	Plastic Bag	2/18/2011
1191 Century Ave S	Friday	Plastic Bag	2/18/2011
2427 Matterhorn Dr	Friday	Plastic Bag	2/18/2011
1475 Sherren Ave E	Monday	Wood In Bin	2/21/2011
2212 Birmingham St	Monday	Plastic Bag	2/21/2011
1625 Frost Ave	Monday	Styrofoam In Bin	2/21/2011
2041 Prosperity Rd	Monday	Plastic Bag	2/21/2011
2033 Prosperity Rd	Monday	Plastic Bag	2/21/2011
1322 Burke Cir E	Monday	Plastic Bag	2/21/2011
1247 County Road B	Monday	Plastic Bag	2/21/2011
2625 5th St E	Tuesday	Plastic Bag	2/22/2011
779 Century Ave N	Tuesday	Plastic Bag	2/22/2011
2641 Midvale Pl	Tuesday	Plastic Bag	2/22/2011
1091 Ferndale St N	Tuesday	Plastic Bag	2/22/2011
979 Bartelmy Ln	Tuesday	Plastic Bag	2/22/2011
1065 Sterling St N	Tuesday	Plastic Bag	2/22/2011
740 Meyer St **	Tuesday	Plastic Bag	2/22/2011
2424 Bush Ave **	Tuesday	Plastic Bag	2/22/2011
1281 Dennis St N	Tuesday	Plastic Bag	2/22/2011
1280 Dennis St N	Tuesday	Plastic Bag	2/22/2011
1265 Mayhill Rd **	Tuesday	Plastic Bag	2/22/2011
2270 Arlington Ave E	Tuesday	Plastic Bag	2/22/2011
1399 Currie St	Tuesday	Plastic Bag	2/22/2011
1463 Myrtle Ct	Tuesday	Plastic Bag	2/22/2011
2269 Nebraska Ave E	Tuesday	Plastic Bag	2/22/2011
2544 Montana Ave E	Tuesday	Plastic Bag	2/22/2011
1480 Mary St N **	Tuesday	Plastic Bag	2/22/2011
1595 Mary St N	Tuesday	Plastic Bag	2/22/2011

1610 Mary St N	Tuesday	Plastic Bag	2/22/2011
3041 Dorland Rd	Wednesday	Plastic Bag	2/23/2011
3065 Standridge Pl	Wednesday	Plastic Bag	2/23/2011
3012 Mayer Ct	Wednesday	Plastic Bag	2/23/2011
2444 Standridge Ave	Wednesday	Plastic Bag	2/23/2011
2888 Bartelmy Ln	Wednesday	Styrofoam In Bin	2/23/2011
2443 Standridge Ave **	Wednesday	Pizza Box	2/23/2011
2912 McKnight Rd	Wednesday	Plastic Bag	2/23/2011
2085 Lydia Ave	Wednesday	Plastic Bag	2/23/2011
2987 Beebe Pkwy	Wednesday	Plastic Bag & Food Waste Plastic Bag & Household Trash	2/23/2011
2984 Furness St	Wednesday	Trash	2/23/2011
2170 Maple Ln	Wednesday	Plastic Bag & Styrofoam	2/23/2011
2191 Radatz Ave **	Wednesday	Plastic Bag	2/23/2011
2101 Radatz Ave	Wednesday	Plastic Bag	2/23/2011
1895 County Road C E **	Wednesday	Plastic Bag	2/23/2011
2581 Flandrau St	Wednesday	Plastic Bag	2/23/2011
1290 County Road C E	Wednesday	Plastic Bag	2/23/2011
1306 County Road C E	Wednesday	Plastic Bag	2/23/2011
2596 Clarence St	Wednesday	Plastic Bag	2/23/2011
1406 County Road C	Wednesday	Plastic Bag	2/23/2011
1469 Grandview Ave	Wednesday	Plastic Bag	2/23/2011
1493 Viking Dr E	Wednesday	Plastic Bag	2/23/2011
2906 Duluth St	Wednesday	Plastic Bag	2/23/2011
3013 Walter St	Wednesday	Plastic Bag	2/23/2011
1893 Kenwood Dr W	Thursday	Plastic Bag	2/24/2011
100 Allen Pl	Thursday	Plastic Bag	2/24/2011
755 Bellwood Ave	Thursday	Plastic Bag	2/24/2011
775 Larpenteur Ave E	Thursday	Plastic Bag	2/24/2011
122 Skillman Ave E	Thursday	Plastic Bag & Styrofoam	2/24/2011
703 Laurie Ct	Thursday	Plastic Bag & Pizza Box	2/24/2011
750 Viking Dr E	Thursday	Plastic Bag	2/24/2011
778 Viking Dr E	Thursday	Plastic Bag	2/24/2011
368 Highway Dr	Thursday	Plastic Bag	2/24/2011
376 Highway Dr	Thursday	Plastic Bag	2/24/2011
2154 Sloan St	Thursday	Plastic Bag	2/24/2011
119 Larpenteur Ave E **	Thursday	Pizza Box	2/24/2011
1797 City Heights Dr	Thursday	Plastic Bag	2/24/2011
1741 Agate St	Thursday	Plastic Bag	2/24/2011
202 Summer Ave E	Thursday	Plastic Bag	2/24/2011
1821 Onacrest Ct **	Thursday	Plastic Bag	2/24/2011
1970 Lee St	Thursday	Plastic Bag	2/24/2011
2027 Arkwright St	Thursday	Plastic Bag	2/24/2011
445 Skillman Ave E	Thursday	Plastic Bag	2/24/2011
1765 Gurney St	Thursday	Plastic Bag	2/24/2011
92 Ferndale St N	Friday	Plastic Bag	2/25/2011

218 Ferndale St N **	Friday	Plastic Bag	2/25/2011
207 O'Day St N	Friday	Plastic Bag	2/25/2011
2510 Brookview Dr	Friday	Plastic Bag	2/25/2011
105 Century Ave S	Friday	Plastic Bag	2/25/2011
570 Dorland Rd S	Friday	Plastic Bag	2/25/2011
663 Ferndale St S	Friday	Plastic Bag	2/25/2011
483 Marnie St	Friday	Plastic Bag	2/25/2011
2423 King Ave E	Friday	Plastic Bag	2/25/2011
468 O'Day St S	Friday	Plastic Bag	2/25/2011
1157 Mary Pl	Friday	Plastic Bag	2/25/2011
1139 Marnie Ct	Friday	Plastic Bag	2/25/2011
1021 Lakewood Dr S	Friday	Plastic Bag	2/25/2011
2465 Carver Ave **	Friday	Plastic Bag	2/25/2011
2341 Mamie Ave	Friday	Plastic Bag	2/25/2011
2531 Southcrest Ave	Friday	Plastic Bag	2/25/2011
1043 O'Day St S	Friday	Plastic Bag	2/25/2011
2641 White Oak Cr E	Friday	Plastic Bag	2/25/2011
2400 Linwood Ct	Friday	Plastic Bag & Styrofoam	2/25/2011
2341 Dahl Ave E	Friday	Plastic Bag	2/25/2011
2469 Matterhorn Dr	Friday	Plastic Bag	2/25/2011
815 Century Ave N	Friday	Plastic Bag	2/25/2011
1676 Sandhurst Dr E	Monday	Plastic Bag	2/28/2011
1714 Lark Ave	Monday	Plastic Bag	2/28/2011
1560 Sandhurst Dr E	Monday	Plastic Bag	2/28/2011
1475 Sherren Ave E **	Monday	Plastic Bag	2/28/2011
1471 Lark Ave	Monday	Plastic Bag	2/28/2011
1440 Laurie Rd E	Monday	Plastic Bag	2/28/2011
1454 Laurie Rd E	Monday	Plastic Bag	2/28/2011
2176 McAfee Cir **	Monday	Plastic Bag	2/28/2011
1462 Sandhurst Dr E	Monday	Plastic Bag	2/28/2011
1474 Burke Ave E	Monday	Plastic Bag	2/28/2011
1977 Prosperity Rd	Monday	Plastic Bag	2/28/2011
1401 Frost Ave	Monday	Plastic Bag	2/28/2011
1265 Lark Ave	Monday	Plastic Bag	2/28/2011
1866 Myrtle St	Monday	Plastic Bag	2/28/2011
1787 Lakewood Dr N	Monday	Trash In Bin	2/28/2011
2225 Larpenteur Ave E **	Monday	Plastic Bag	2/28/2011
1769 Beebe Rd **	Monday	Plastic Bag	2/28/2011
1694 Ruth S	Monday	Plastic Bag	2/28/2011
1950 Ripley Ave	Monday	Plastic Bag	2/28/2011
1997 Price Ave	Monday	Plastic Bag	2/28/2011
1951 Larpenteur Ave E **	Monday	Pizza Box	2/28/2011
1930 County Road B E	Monday	Plastic Bag	2/28/2011
1972 Stanich Ct **	Monday	Pizza Box	2/28/2011
2215 Germain St	Monday	Plastic Bag	2/28/2011
2250 Hazel St N	Monday	Plastic Bag	2/28/2011
2256 Craig Pl	Monday	Plastic Bag	2/28/2011

City of Maplewood Complaints/Compliments 2011

Name	Address	Phone Number	Complaint/Compliments	Date	Time	Response	Date	Time
Resident	Connemara		Concerned driver did not pick up their building on Friday 1/7/11	1/11/2011	7:45am	Driver verified he did indeed miss them as he was not aware there were 4 locations on site. Picked up same day as phone call from resident. Route sheet verified that it was not circled. Had driver go back next day to pickup	1/11/2011	11:30am
Jeff Ronning	1737 Duluth St	(651)793-0227	Recycling not picked up on 1/17/11	1/17/2011	4:15pm	Route verified that it was circled 3 weeks in a row-Called customer and explained that she needed to have it out by 7:00am-When back on Jan 27th and picked up the recycling	1/18/2011	2:30pm
Shari Jacobus	908 Connor		AWESOME recycling!!	2/26/2011	10:30am	thanked her for the compliment		
Laura Fiedt	1171 Beam Ave	(651)483-2068	Recycling not picked up on 1/26/11	1/26/2011	4:15pm	Route verified that it was circled 3 weeks in a row-Called customer and explained that she needed to have it out by 7:00am-When back on Jan 27th and picked up the recycling	1/27/2011	11:30am
Jane Greco	532 Deer Ridge	Email	YOUR SERVICE IS GREAT!!!	1/30/2011	12:55pm	Emailed back and thanked her for taking the time to let us know	1/30/2011	2:30pm

Kim Peterson 2432 Flandrau St
we are so happy
you are now
picking up the
recycling !
2/3/2011 10:25am
thanked Kim for the
compliment
2/3/2011 10:25am

Matt Pronschinske 2124 Bradley St
we are so happy
you are now
picking up the
recycling - you take
so much more than
previous company!
2/3/2011 4:00pm
thanked Matt for the
compliment
2/3/2011 4:00pm

Greg Huppert 1792 Ruth St 651-777-7290
we threw away his
Shroeder plastic
milk crate used to
sort paper & keep
in recycle bin
neater
2/7/2011 4:00pm
Talked to Willie he
said he will try to
replace or have
customer purchase
another cart &
submit bill to us
2/3/2011 4:00pm

Tara Sweeney 964 Kohlman Lane 651-766-5750
we left cans &
bottles in plastic
bags along with a
tag very unhappy
there was no
warning said it
seems to
discourage
recycling
2/9/2011 1:35pm
Talked to Greg he
suggested putting in
trash can for this
week I also suggested
contacting the city for
add'l bin
2/9/2011 1:45pm

Martha Barnett	1982 Edgerton St 651-246-0895	we left recycling in plastic bags very unhappy that we are unable to supply her with a cart w/lid cans would blow all over the street in box	2/10/2011 9:00am	suggested putting cans in paper bags or another bin	2/10/2011 9:00am
Wendy Bowen	1746 City Heights Dr 651-488-1259	Driver moved trash cart in middle of drive to get recycling but didn't move back, blocking driveway	2/10/2011 10:40am	Had driver go back and move trash cart back where he found it	2/10/2011 10:54am
Homeowner	507 S Dorland	Called to say thank you for neatly stacking bins after pick up instead of throwing them all over the driveway.	2/11/2011 8:15am	Told her we really appreciated her taking her time to let us know that she is so satisfied with the service	2/11/2011 8:15am
Marilyn	1770 Edward St	Driver left items that were in a plastic bag and other recyclables in the bin	2/14/2011 1:35pm	Sent the driver back same day to get the recyclables that are not in plastic bag	2/14/2011 1:30pm

Appendix K
Fleet Fuel Emissions Reduction

Letter to Tennis Sanitation, LLC from River Country Cooperative
on Fleet Fuel Emissions Reduction

RIVER COUNTRY COOPERATIVE



Elements for life

June 11, 2010

To: Mr. Willie Tennis
Tennis Sanitation
P. O. Box 62
St. Paul Park, MN 55071

Mr. Tennis,

Here is an update on what River Country Co-op has been doing to help your fleet reduce its emissions.

Since July 1, 2007 your trucks have been using ultra low sulfur diesel fuel which means it contains less than 15 parts per million sulfur. The most important part of switching to the use of ultra low sulfur diesel is that it will allow the diesel engine manufacturers to make trucks that are able to incorporate particulate filters and/or scrubbers into their exhaust systems. This will reduce the amount of solids that diesel engines put in the air. The ultra low sulfur will also help engine manufacturers to add a new system that will reduce carbon monoxide emissions.

In my opinion though, the most important measure River Country has been doing to help you reduce your emissions, is adding bio diesel to your diesel fuel.

From September 29, 2005 to May 1, 2009 you were using bio-diesel at the rate of 2% per gallon.

Since May 1, 2009 and continuing through May 1, 2012 you will be using 5% bio diesel.

From May 1, 2012 to May 1, 2015 your diesel fuel will contain 10% bio diesel.

After May 1, 2015 your diesel fuel will contain 20% bio diesel.

River Country will keep your diesel fuel up to date with the newest measures designed to keep our environment clean. I'll let you know as we do. Call with any questions.

Sincerely,

Paul Ward



WESTERN PETROLEUM COMPANY Lubricant Division

Western Petroleum is a loyal and long term supporter of the renewable fuels industry. Since the infancy of the ethanol industry of the 70's to the expansion of the ever growing biodiesel fuels today, Western has been an innovator and continually provides these products to the end users. Western is currently one of the largest producers & distributor of biodiesel in the United States. We are proactive in promoting the use of and helping to engineer solutions to an ever changing landscape of the industry. Diesel Exhaust Fluid is now becoming an integral part of renewable fuels landscape as well. We have teamed up with the TerraCair brand and have become their main supplier in the Midwest. We have exceeded the ISO Standard 22241 on all aspects of our DEF systems and are proud to be able to supply this product to our customers.

The Buckingham Companies are proactive and forward looking towards better efficiencies in all aspects of the emerging technologies.

Appendix L
Letter from the Minnesota Department of Natural
Resources

Minnesota Department of Natural Resources

500 Lafayette Road • St. Paul, MN • 55155-40



June 25, 2010

Greg -
Thank you again for
being an integral part
of the cleanup!

Dear Riverboat Cleanup Sponsor,

Thank you so much for donating services for the 19th Mississippi Riverboat Cleanup. Your donation put smiles on the faces of our hard-working volunteers.

About 145 people participated in the event on Wednesday, June 16th and cleaned over 2 miles of shoreline. These cleanup efforts nearly filled a 30 cubic yard dumpster with trash. With teamwork, crews were able to pull tires and trash from the wooded shorelines.



Volunteers loaded boats with trash to send to the dumpster.



Volunteers were transferred via Padelford riverboat to the cleanup sites.

This event would not have been possible without your generous support. It takes all kinds of people to make the river a better place. Your contribution is part of what builds our community's quality of life. Thanks again for helping us care for a great Minnesota water resource!

Sincerely,

A handwritten signature in black ink that reads "Paul Nordell".

Paul Nordell
Adopt-a-River Program Coordinator
Department of Natural Resources
(651) 259-5630
Paul.nordell@state.mn.us

Eva Johnson
Water Recreation Specialist
Conservation Corps Minnesota
(651) 259-5620
eva.johnson@state.mn.us

www.dnr.state.mn.us

AN EQUAL OPPORTUNITY EMPLOYER



PRINTED ON RECYCLED PAPER CONTAINING A MINIMUM OF 10% POST-CONSUMER WASTE

Appendix M
Information from the Vendor Regarding Glass Recycling



- Strategic Materials, Inc. (SMI) is the largest glass recycler in North America.
- SMI has been recycling glass for over 100 years.
- SMI operates over 40 facilities with longstanding relationships with all of the major cullet consuming companies. This provides constant outlets for all of our glass material.
- SMI operates with the latest in technology for high melt point detection (ceramics, porcelain and stones).
- SMI recycles over 1,400,000 tons per year.
- SMI in St. Paul
 - Opened our new facility in St. Paul in November of 2011.
 - Processes post-consumer recyclable glass.
 - Also recycles plate glass.
 - Located on a rail spur, the St. Paul facility uses rail and trucks to ship and receive material.
 - State of the art technology enables us to optically sort for high melt point items (ceramics, porcelain and stones) down to 1/8". With a total of 9 optical sorters, we ensure that we capture as much glass cullet as possible and also keep the high melt point items out of our material.
 - The majority of our glass cullet goes back to the container industry.
 - The facility recycles both ferrous and non-ferrous metals that are captured from our process.
 - In the process of negotiating a contract to recycle all paper "fluff" material that is captured from our process.
 - In the process of negotiating a contract to recycle the plastic residue that is also captured during our process.



PETE



HDPE



HDPE



V

■ Plastics identification guide

	<u>PET</u>	<u>HDPE "natural" (without color)</u>	<u>HDPE colored</u>	<u>PVC</u>
Full name	Polyethylene terephthalate	High-density polyethylene	High-density polyethylene	Polyvinyl chloride
Typical products	Bottles: soft drink, Pepto-Bismol, Ocean Spray, honey, liquor, Palmolive dish detergent, liquid Spic & Span, other clear bottles with nubs; toiletries; recording tape; pharmaceuticals; heatable food trays; boil-in-the-bag bags	Jugs: milk, cider, distilled water and spring water; bottles: juice (not clear), rubbing alcohol, large vinegar, single-serving punch-drink or juice, eye drops; grocery bags; base cups	Bottles: laundry and dish detergent, fabric softener, saline solution, bleach, lotion, motor oil and antifreeze; dispensers: dental floss, baby wipes	Bottles: imported mineral water, salad dressing, salad and vegetable oil, floor polish, mouthwash, liquor, some translucent pharmaceutical bottles; bottle liners and cap coatings; blister pack "bubble" for batteries, hardware supplies, etc.
Features	High strength, high resistance	Chemical and moisture resistant; tough	Chemical and moisture resistant; tough	Hardy; chemical resistant
Appearance	Transparent with high gloss; clear or colored; no seams; injection-molding nub on bottom	Translucent matte finish (not shiny)	Opaque matte finish (not shiny)	Can be transparent, translucent, or opaque (colored, usually high gloss); bottles have seams; clear bottles sometimes have faint blue tint; bottom has blow-molding "smile"
Physical properties	Tough; slick surface; high resilience; semi-rigid; hard to scratch; sinks in water; sweetly aromatic, irritating smell when burned	Slightly waxy to touch; semi-rigid to flexible; does not crack when bent; scratches to some degree; floats in water; smells like candle when burned	Slightly waxy to touch; semi-rigid to flexible; does not crack when bent; scratches to some degree; floats in water; smells like candle when burned	Tough; very smooth surface; forms opaque white line when bent; semi-rigid; scratches easily; sinks in water; acrid, hydrochloric acid smell when burned
SPI Code (1)	1 (PETE)	2 (HDPE)	2 (HDPE)	3 (V)

{1} Refers to the imprint on the bottom or side of a plastic container voluntarily used by many bottle producers and promoted by the Society of the Plastics Industry.

Sources: Earth Circle, Council for Solid Waste Solutions and *Plastics Recycling Update*, 1990.



LDPE



PP



PS



PS



Other

LDPE

Low-density polyethylene

Usually appears in flexible film bags for trash, dry cleaning, bread, produce, etc., also some rigid items such as food storage containers and flexible lids; coating

Good optics; tough; lightweight; flexible

Can be nearly transparent (e.g., dry cleaning bags) or opaque; can be colored; low to high gloss

Slightly waxy to touch; flexible; stretches before tearing when pulled; scratches easily; floats in water; smells like candle when burned

4 (LDPE)

PP

Polypropylene

Battery cases, medical containers; oil additive tubs; cereal box liners; bottle labels and caps; rope and strapping; combs; snack wraps/bags; Tropicana frozen orange juice cans; some yogurt cups and lids (those that do not crack easily when bent)

Good tensile strength; chemical resistant; hard

Transparent, translucent, or opaque; clear or colored; can have shiny or low gloss finish

Smooth surface; semi-rigid; tough; cannot scratch; floats in water; when burned, has a "chemical" smell and sticks and stretches into filament

5 (PP)

PS

Polystyrene

Some yogurt cups and tubs; cookie and muffin containers; vitamin bottles; most fast food cutlery

Good optics; stiff; flexible

Transparent or opaque; clear or colored; high gloss; only wide-mouthed containers (no bottles)

Slick, smooth surface; cracks easily when bent; brittle to semi-rigid; hard to scratch; sinks in water

6 (PS)

EPS

Expanded (or foamed) polystyrene

Carry-out containers (clamshells, etc.); meat trays; egg cartons

Lightweight; heat resistant; buoyant

Opaque only; smooth to grainy finish; foamed, thick-walled

Smooth surface; cracks easily when bent; lightweight and fluffy; easily scratched; floats in water

6 (PS)

Other

Varies

Products made of plastics other than the six most common or made of multiple resins in layers, blends, or different parts (examples: microwavable serving ware; "brick pack" juice boxes; water cooler bottles; most snack bags, e.g., potato chips; squeezable bottles for ketchup, condiments, jellies, syrups)

Varies

Varies

Varies

7 (OTHER)