

[illegible]

Solid Waste

City of Columbia Variables

Account holders: 34,778
of Routes: Trash - 8 / Recycling - 5
of Refuse Collectors/Sr RC: Trash - 16 / Recycling - 11
Avg WC cost in 5 years: \$133,479
Avg # of WC cases in 5 years: 20 @ \$6,674 per case
Current RC Starting Pay: \$17.085/hr (with increase \$22.085)
Current Sr. RC Starting Pay: \$18.700/hr (with increase \$23.70)

Model looked at 27 cities including:

Top 10 most populated cities in MO
Surrounding cities
Cities comparable to Columbia (Trend Manual)

Trash Service

Does the City provide trash service or is it contracted?

- * City - 11
- * Contracted - 11
- * Resident contract - 5

If it is contracted, who is the contractor (listed more than once)?

- * Republic Services
- * Advanced Disposal
- * Dayne's Waste Disposal, Inc

How much is MONTHLY residential Service?

- * \$16.93 average monthly price of service

Recycling

Does service include curbside recycling?

- * City offered: Yes - 9 / No - 1
- * Contractor offered: Yes - 11 / No - 6

If yes, is there an additional charge for recycling?

- * 4 contractors have an additional charge - \$5.67 average
- * 1 city has an additional charge - \$2.99 (Lawrence, KS)

Do they provide drop off locations for recycling?

- * 23 of the 27 cities provide drop off location for recycling

Roll Carts vs Bags

Does the City require roll carts or totes or a bag limit?

- * Roll carts - 20
- * Bag limit - 1
- * No restriction - 6

If they provide roll carts or totes provide size options?

- * 6 offered more than one size option rollcarts
- * City offered - 2
- * Contractor offered - 4

Does the City provide bags?

- * None of the 27 cities surveyed provide trash bags
- * 2 cities provide recycling bags
 - Hallsville
 - 40-44 gallon clear plastic bags
 - Pickup at City Hall
 - St. Peters
 - Unlimited if subscribe to Blue Cart Crew
 - tie last empty bag to cart and a new roll is left

Average price per 30 gallon store bought bag?

- * \$0.25 per bag

What happens if someone puts bags or large items out over the limit or without a cart/tote?

- * Do not pick up - 9
- * Fee - 10
- * Unknown - 8
- * 4 of the 27 cities use code violations to enforce

Curbside Bulky Pickup

Does the City or contractor pick up large items via curbside?

- * Offered - 24

Does the City require you to schedule a time to pick up bulk items?

- * Schedule - 16
- * Not Scheduled - 8

Does the City charge to pick up bulk items?

- * Charge - 13
- * No Charge - 7

Do they offer "free pickups"?

- * 1 per year - 1
- * 1-2 items per week - 3
- * 1 pick-up per month - 2
- * Quarterly - 1
- * Scheduled "Clean-up" day - 3

If yes, how much?

- * Ranges vastly from \$3 to \$45
- * Average per item - \$19.63
- * Most state "depending what is picked up"

Brand	Type	Price	Number of Bags	Price Per Bag	Link
Amazon Brand - Solimo Multipurpose Drawstring Trash Bags (30 gallon)	Black	\$9.99	50 ct	\$0.20	Amazon
Up & Up (Target) (30 gallon)	Black	\$8.99	60 ct.	\$0.15	Target
Great Value (Walmart) (30 gallon)	Black	\$7.86	40 ct.	\$0.19	Walmart
Kroger Large Trash Drawstring Bags (30 gallon)	Black	\$4.99	32 ct.	\$0.15	Kroger
Simply Done Large Trash Bags (HyVee) (30 gallon)	Black	\$9.99	50 ct.	\$0.20	HyVee
Hefty Ultra Strong Triple Action (30 gallon)	Black	\$6.99	30 ct.	\$0.23	Kroger
Glad ForceFlex Drawstring (30 gallon)	Black	\$16.04	25 ct	\$0.64	Walmart

\$0.25

Kitchen

System Goals	Reduce turnover for refuse collectors.
	Reduce injuries for refuse collectors.
	Improve safety for refuse collectors.
	Provide curbside recycling.
	Simply and standardize refuse collection workload and expectations.
	Create incentives for customers to reduce waste/increase recycling.
	Create a limit on the amount of waste that can be put out each week.
	Create a systematic way to migrate the removal of bulky items from the regular route trucks.
	No increase in average customer cost.
	Provide some form of assistance to low-income and disadvantaged populations.
	Net reduction in total costs.
	No rate increase.
	Simple billing and enforcement
	Low upfront costs.

	Description	Current System	Scenario 1a	Scenario 1b	Scenario 2	Scenario 3a
Assumptions		-No bag limit -Free bulk pick up, unscheduled -Vouchers for 50 black trash bags and 54 blue recycling bags free for customers, annually	-Logo bags (52 free) -Addl bags at \$1.50 -No Bag Limit -Rate incr (break even) -Bulk pickup (appt) \$21.53 -\$5 addl items -Refrigerant chg \$20	-Logo bags (52 free) -Addl bags at \$1.50 -No Bag Limit -Rate incr (break even) -Bulk pickup (appt) \$21.53 -\$5 addl items -Refrigerant chg \$20	-Eliminates curb side recycling -Removes bag vouchers for trash and recycling	-Adds 1 FTE Code Enforcement Officer specifically assigned to Solid Waste -No rate increase -Removes the bag vouchers for refuse and recycling -Adds a \$5/hour add. pay increase for refuse collectors -Limits the number of bags residents may leave at the curb
System Goals	Reduce turnover for refuse collectors.	No	Yes	Yes	No	Yes
	Reduce injuries for refuse collectors.	No	Yes	Yes	No	Yes
	Improve safety for refuse collectors.	No	No	No	No	No
	Provide curbside recycling.	Yes	Yes	Yes	No	Yes
	Simply and standardize refuse collection workload and expectations.	No	No	No	No	Yes
	Create incentives for customers to reduce waste/increase recycling.	No	Yes	Yes	No	Yes
	Create a limit on the amount of waste that can be put out each week.	No	Yes	Yes	No	Yes
	Create a systematic way to migrate the removal of bulky items from the regular route trucks.	No	Yes	Yes	No	Yes
	No increase in average customer cost.	Yes	No	No	No	No
	Provide some form of assistance to low-income and disadvantaged populations.	Maybe	Maybe	Maybe	No	No
	Net reduction in total costs.	No	No	No	Yes	Yes
	No rate increase.	Yes	Yes	No	Yes	Yes
	Simple billing and enforcement	Yes	No	No	Yes	Yes
	Low upfront costs.	Yes	Yes	Yes	Yes	Yes
is	Scheduled Bulk Item Pick Up	No	Yes	Yes	No	Yes

	Description	Scenario 3b	Scenario 4a	Scenario 4b
Assumptions		-Adds a \$5 charge for bulky item pick up -Adds 1 FTE Code Enforcement Officer specifically assigned to Solid Waste -No rate increase -Removes the bag vouchers for refuse and recycling -Adds a \$5/hour add. pay increase for refuse collectors -Limits the number of bags residents may leave at the curb	-Requires roll carts (no bags left at the curb) -No rate increase -Removse the bag vouchers for refuse and recycling -Requires the purchase of automated trucks -Adds a \$2.50/hour add. pay increase for refuse collectors	-Requires roll carts (no bags left at the curb) -Adds 1 FTE Code Enforcement for Solid Waste -No rate increase -Removes the bag vouchers for refuse and recycling -Requires the purchase of automated trucks -Adds a \$2.50/hour add. pay increase for refuse collectors
System Goals	Reduce turnover for refuse collectors.	Yes	Yes	Yes
	Reduce injuries for refuse collectors.	Yes	Yes	Yes
	Improve safety for refuse collectors.	No	Yes	Yes
	Provide curbside recycling.	Yes	Yes	Yes
	Simply and standardize refuse collection workload and expectations.	Yes	Yes	Yes
	Create incentives for customers to reduce waste/increase recycling.	Yes	Yes	Yes
	Create a limit on the amount of waste that can be put out each week.	Yes	Yes	Yes
	Create a systematic way to migrate the removal of bulky items from the regular route trucks.	Yes	Yes	Yes
	No increase in average customer cost.	No	No	No
	Provide some form of assistance to low-income and disadvantaged populations.	No	No	No
	Net reduction in total costs.	Yes	Maybe	Maybe
	No rate increase.	Yes	Yes	Yes
	Simple billing and enforcement	No	Yes	Yes
	Low upfront costs.	Yes	No	No
is	Scheduled Bulk Item Pick Up	Yes	Yes	Yes

Policy Change	Description	Current System	Scenario 1a	Scenario 1b	Scenario 2	Scenario 3a
	Bulk Item Pickup Charge by Number of Items?	No	Yes	Yes	No	No
	Bulk Item Pickup Charge by Number of Pickups?	No	Yes	Yes	No	No
	One Free Bulky					
	Weekly Bag Limit	0	0	0	0	6
	Leave bags over the limit at curb?	No	Yes	Yes	No	Yes
	Charge for additional bags at time of pickup?	No	No	No	No	No
	Roll Carts	No	No	No	No	No
	Add pay amount?	\$0.00	\$5.00	\$5.00	\$0.00	\$5.00
Summary	Estimated One-time Implemenation Expenses	\$ -	\$ -	\$ -	\$ -	\$ -
	Average Estimated Annual Cost Reduction (Increase) to Customer	\$ -	\$ 48.19	\$ 18.51	\$ 6.00	\$ 6.00
	Rate Increase Needed?	\$ -	\$ -	\$ 0.75	\$ -	\$ -
	New Rate	\$ 16.52	\$ 16.52	\$ 17.27	\$ 16.52	\$ 16.52
	Total Estimated Annual Net Cost Reduction (Increase)	\$ -	\$ 1,215,908.72	\$ (314,417.37)	\$ 890,699.18	\$ 158,253.18
	Bulk Item Net Cost Reduction (Increase)	\$ -	\$ 110,789.28	\$ 110,789.28	\$ -	\$ -
	Bags Net Cost Reduction (Increase)	\$ -	\$ 1,511,759.44	\$ 39,439.35	\$ 622,899.18	\$ 622,899.18
	Personnel Net Cost Reduction (Increase)	\$ -	\$ (353,080.00)	\$ (411,086.00)	\$ -	\$ (411,086.00)
	Worker's Comp Net Cost Reduction (Increase)					
	Misc Items Net Cost Reduction (Increase)	\$ -	\$ (53,560.00)	\$ (53,560.00)	\$ 267,800.00	\$ (53,560.00)
	Account Holders	34,778	34,778	34,778	34,778	34,778
	Deposit Amount	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00
	Base Rate	\$16.52	\$16.52	\$16.52	\$16.52	\$16.52
	.01 Rate Increase Amount	\$ 4,173.36	\$ 4,173.36	\$ 4,173.36	\$ 4,173.36	\$ 4,173.36

Policy Change	Description	Scenario 3b	Scenario 4a	Scenario 4b
	Bulk Item Pickup Charge by Number of Items?	No	No	No
	Bulk Item Pickup Charge by Number of Pickups?	Yes	Yes	Yes
	One Free Bulky			
	Weekly Bag Limit	6	0	0
	Leave bags over the limit at curb?	Yes	Yes	Yes
	Charge for additional bags at time of pickup?	No	No	No
	Roll Carts	No	Yes	Yes
	Add pay amount?	\$5.00	\$2.50	\$2.50
Summary	Estimated One-time Implemenation Expenses	\$ -	\$ (12,000,000.00)	\$ (12,000,000.00)
	Average Estimated Annual Cost Reduction (Increase) to Customer	\$ 7.28	\$ 6.00	\$ 6.00
	Rate Increase Needed?	\$ -	\$ -	\$ -
	New Rate	\$ 16.52	\$ 16.52	\$ 16.52
	Total Estimated Annual Net Cost Reduction (Increase)	\$ 202,623.18	\$ 392,799.18	\$ 1,084,633.18
	Bulk Item Net Cost Reduction (Increase)	\$ 44,370.00	\$ -	\$ -
	Bags Net Cost Reduction (Increase)	\$ 622,899.18	\$ 622,899.18	\$ 622,899.18
	Personnel Net Cost Reduction (Increase)	\$ (411,086.00)	\$ (176,540.00)	\$ (234,546.00)
	Worker's Comp Net Cost Reduction (Increase)			
	Misc Items Net Cost Reduction (Increase)	\$ (53,560.00)	\$ (53,560.00)	\$ 696,280.00
	Account Holders	34,778	34,778	34,778
	Deposit Amount	\$20.00	\$20.00	\$20.00
	Base Rate	\$16.52	\$16.52	\$16.52
	.01 Rate Increase Amount	\$ 4,173.36	\$ 4,173.36	\$ 4,173.36

Variables	Description	Current System	Scenario 1a	Scenario 1b	Scenario 2	Scenario 3a
	Number of Refuse Collectors (Trash)	7.00	7.00	7.00	7.00	7.00
	Number of Refuse Collectors (Recycling)	4.00	4.00	4.00	4.00	4.00
	Number of Senior Refuse Collectors (Trash)	9.00	9.00	9.00	9.00	9.00
	Number of Senior Refuse Collectors (Recycling)	7.00	7.00	7.00	7.00	7.00
	Supervisor of Refuse and Senior Refuse Collectors	1.00	1.00	1.00	1.00	1.00
	Number of Code Enforcement Officers	0.00	0.00	1.00	0.00	1.00
	Number of Voucher Program Staff	0.00	0.00	0.00	0.00	0.00
	Number of Truck Routes (Trash)	8	9	9	8	9
	Number of Truck Routes (Recycling)	5	5	5	0	5
	Estaimted Number of Bags Put Out Per Week Per Customer	2	1.5	2.15	1.5	1.5
Bulk Items	Estimated Percent Reduction in Items	0.00%	60.00%	60.00%	0.00%	10.00%
	Number of Bulky Items per Year	20,880	8,352	8,352	20,880	18,792
	Number of Bulky Item Pickups Per Day	40	40	40	40	40
	Number of Bulky Items Pickups Per Year	10,440	4,176	4,176	10,440	9,396
	Cost per Bulky Item	\$0.00	\$5.00	\$5.00	\$0.00	\$0.00
	Cost per Bulky Item Pickup	\$0.00	\$16.53	\$16.53	\$0.00	\$0.00
Estimated Annual Revenue Increase		\$ -	\$ 110,789.28	\$ 110,789.28	\$ -	\$ -
	Expenses					
	Number of Black Bags Purchased Per Year	1,444,750	2,712,684	3,927,062	0	0
	Price Per Black Bag Roll (25 Bag Rolls)	\$5.85	\$5.85	\$5.85	\$0.00	\$0.00
	Price Per Black Bag	\$0.23	\$0.23	\$0.23	\$0.00	\$0.00
	Number of Black Bags Provided by City	50	52	104	0	0
	Black Bag Yearly Cost	\$338,071.50	\$634,768.06	\$918,932.56	\$0.00	\$0.00

Variables	Description	Scenario 3b	Scenario 4a	Scenario 4b
	Number of Refuse Collectors (Trash)	7.00	7.00	7.00
	Number of Refuse Collectors (Recycling)	4.00	4.00	4.00
	Number of Senior Refuse Collectors (Trash)	9.00	9.00	9.00
	Number of Senior Refuse Collectors (Recycling)	7.00	7.00	7.00
	Supervisor of Refuse and Senior Refuse Collectors	1.00	1.00	1.00
	Number of Code Enforcement Officers	1.00	0.00	1.00
	Number of Voucher Program Staff	0.00	0.00	0.00
	Number of Truck Routes (Trash)	9	9	9
	Number of Truck Routes (Recycling)	5	5	5
	Estaimted Number of Bags Put Out Per Week Per Customer	1.5	1.5	1.5
Bulk Items	Estimated Percent Reduction in Items	15.00%	10.00%	10.00%
	Number of Bulky Items per Year	17,748	18,792	18,792
	Number of Bulky Item Pickups Per Day	40	40	40
	Number of Bulky Items Pickups Per Year	8,874	9,396	9,396
	Cost per Bulky Item	\$0.00	\$0.00	\$0.00
	Cost per Bulky Item Pickup	\$5.00	\$0.00	\$0.00
	Estimated Annual Revenue Increase	\$ 44,370.00	\$ -	\$ -
Expenses				
	Number of Black Bags Purchased Per Year	0	0	0
	Price Per Black Bag Roll (25 Bag Rolls)	\$0.00	\$0.00	\$0.00
	Price Per Black Bag	\$0.00	\$0.00	\$0.00
	Number of Black Bags Provided by City	0	0	0
	Black Bag Yearly Cost	\$0.00	\$0.00	\$0.00

	Description	Current System	Scenario 1a	Scenario 1b	Scenario 2	Scenario 3a
Bags	Number of Blue Bags Purchased Per Year	1,229,472	1,229,472	1,229,472	0	0
	Price Per Blue Bag Roll (18 Bag Rolls)	\$4.17	\$4.17	\$4.17	\$0.00	\$0.00
	Price Per Blue Bag	\$0.23	\$0.23	\$0.23		
	Number of Blue Bag Rolls Provided by City	4	4	4	0	0
	Blue Bag Yearly Cost	\$284,827.68	\$284,827.68	\$284,827.68	\$0.00	\$0.00
	3rd Party Program Administration Costs	\$0.00			\$0.00	\$0.00
	Voucher Printing	\$0.00			\$0.00	\$0.00
	Voucer Software Annual Maintenance	\$0.00			\$0.00	\$0.00
	Storage Fee					
	Total Annual Expenses	\$ 622,899.18	\$ 919,595.74	\$ 1,203,760.24	\$ -	\$ -
	Revenue					
	Number of Black Bags Sold Per Year	-294,150	904,228	310,150	0	0
	Price Per Black Bag	\$ -	\$ 2.00	\$ 2.00	\$ -	\$ -
	Black Bag Yearly Revenue	\$ -	\$ 1,808,456.00	\$ 620,300.41	\$ -	\$ -
	Number of Blue Bags Sold Per Year	0	0	0	0	0
	Price Per Blue Bag	\$ -	\$ -	\$ -	\$ -	\$ -
	Blue Bag Yearly Revenue	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Annual Revenues	\$ -	\$ 1,808,456.00	\$ 620,300.41	\$ -	\$ -
	Total Annual Net Cost Reduction (Increase)	\$ -	\$ 1,511,759.44	\$ 39,439.35	\$ 622,899.18	\$ 622,899.18
	Refuse Collector Starting Pay	\$17.085	\$22.085	\$22.085	\$17.085	\$22.085
	Refuse Collector Fringe Rate	0.2125	0.2125	0.2125	0.2125	0.2125
	Refuse Collector Turnover Cost					

	Description	Scenario 3b	Scenario 4a	Scenario 4b
Bags	Number of Blue Bags Purchased Per Year	0	0	0
	Price Per Blue Bag Roll (18 Bag Rolls)	\$0.00	\$0.00	\$0.00
	Price Per Blue Bag			
	Number of Blue Bag Rolls Provided by City	0	0	0
	Blue Bag Yearly Cost	\$0.00	\$0.00	\$0.00
	3rd Party Program Administration Costs	\$0.00	\$0.00	\$0.00
	Voucher Printing	\$0.00	\$0.00	\$0.00
	Voucer Software Annual Maintenance	\$0.00	\$0.00	\$0.00
	Storage Fee			
	Total Annual Expenses	\$ -	\$ -	\$ -
	Revenue			
	Number of Black Bags Sold Per Year	0	0	0
	Price Per Black Bag	\$ -	\$ -	\$ -
	Black Bag Yearly Revenue	\$ -	\$ -	\$ -
	Number of Blue Bags Sold Per Year	0	0	0
	Price Per Blue Bag	\$ -	\$ -	\$ -
	Blue Bag Yearly Revenue	\$ -	\$ -	\$ -
	Total Annual Revenues	\$ -	\$ -	\$ -
	Total Annual Net Cost Reduction (Increase)	\$ 622,899.18	\$ 622,899.18	\$ 622,899.18
	Refuse Collector Starting Pay	\$22.085	\$19.585	\$19.585
	Refuse Collector Fringe Rate	0.2125	0.2125	0.2125
	Refuse Collector Turnover Cost			

	Description	Current System	Scenario 1a	Scenario 1b	Scenario 2	Scenario 3a
Personnel	Total Refuse Collection Cost	\$ 473,968.00	\$ 612,678.00	\$ 612,678.00	\$ 473,968.00	\$ 612,678.00
	Senior Refuse Colector Starting Pay	\$18.700	\$23.700	\$23.700	\$18.700	\$23.700
	Senior Refuse Collector Fringe Rate	0.2125	0.2125	0.2125	0.2125	0.2125
	Senior Refuse Collector Turnover Cost					
	Total Senior Refuse Collection Cost	\$ 801,737.00	\$ 1,016,107.00	\$ 1,016,107.00	\$ 801,737.00	\$ 1,016,107.00
	Code Enforcment Officer Starting Pay	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00
	Code Enforcment Officer Fringe Rate	0.2125	0.2125	0.2125	0.2125	0.2125
	Code Enforcement Officer Total Cost	\$ -	\$ -	\$ 58,006.00	\$ -	\$ 58,006.00
	Voucher Program Staff Starting Pay	\$15.487	\$15.487	\$15.487	\$15.487	\$15.487
	Voucher Program Staff Fringe Rate	0.2125	0.2125	0.2125	0.2125	0.2125
	Voucher Program Staff Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Personnel Net Cost Reduction (Increase)	\$ -	\$ (353,080.00)	\$ (411,086.00)	\$ -	\$ (411,086.00)
Worker Comp	Annual Worker Comp Estimate	\$133,264			\$133,264	
tation	Roll Carts Proposal					
	Trucks - Trash (8 routes, 3 reserve trucks)	\$ -	\$ -	\$ -	\$ -	\$ -
	Roll Carts - Trash (36,000 at \$55 each)	\$ -	\$ -	\$ -	\$ -	\$ -
	Trucks - Recycling (5 routes, 2 reserve trucks)	\$ -	\$ -	\$ -	\$ -	\$ -

	Description	Scenario 3b	Scenario 4a	Scenario 4b
Personnel	Total Refuse Collection Cost	\$ 612,678.00	\$ 543,323.00	\$ 543,323.00
	Senior Refuse Colector Starting Pay	\$23.700	\$21.200	\$21.200
	Senior Refuse Collector Fringe Rate	0.2125	0.2125	0.2125
	Senior Refuse Collector Turnover Cost			
	Total Senior Refuse Collection Cost	\$ 1,016,107.00	\$ 908,922.00	\$ 908,922.00
	Code Enforcment Officer Starting Pay	\$23.00	\$23.00	\$23.00
	Code Enforcment Officer Fringe Rate	0.2125	0.2125	0.2125
	Code Enforcement Officer Total Cost	\$ 58,006.00	\$ -	\$ 58,006.00
	Voucher Program Staff Starting Pay	\$15.487	\$15.487	\$15.487
	Voucher Program Staff Fringe Rate	0.2125	0.2125	0.2125
	Voucher Program Staff Total Cost	\$ -	\$ -	\$ -
	Total Personnel Net Cost Reduction (Increase)	\$ (411,086.00)	\$ (176,540.00)	\$ (234,546.00)
Worker Comp	Annual Worker Comp Estimate			
tation	Roll Carts Proposal			
	Trucks - Trash (8 routes, 3 reserve trucks)	\$ -	\$ 2,970,000.00	\$ 2,970,000.00
	Roll Carts - Trash (36,000 at \$55 each)	\$ -	\$ 1,980,000.00	\$ 1,980,000.00
	Trucks - Recycling (5 routes, 2 reserve trucks)	\$ -	\$ 2,310,000.00	\$ 2,310,000.00

	Description	Current System	Scenario 1a	Scenario 1b	Scenario 2	Scenario 3a
One-time Implementation Costs	Roll Carts - Recycling (72,000 at \$55 each)	\$ -	\$ -	\$ -	\$ -	\$ -
	Additional 7% change from quotes	\$ -	\$ -	\$ -	\$ -	\$ -
	Total Roll Cart One-Time Costs	\$ -	\$ -	\$ -	\$ -	\$ -
	Voucher Program Proposal One-Time Costs					
	Software	\$ -			\$ -	\$ -
	Printer	\$ -			\$ -	\$ -
	Total Voucher One-Time Costs					
	Total One-Time Costs	\$ -	\$ -	\$ -	\$ -	\$ -
Misc Items	Average Truck Route Weekly Operating Cost	\$ 1,030.00	\$ 1,030.00	\$ 1,030.00	\$ 1,030.00	\$ 1,030.00
	Weekly Truck Routes Ran Per Year	676	728	728	416	728
	Estimated Total Cost	\$ 696,280	\$ 749,840	\$ 749,840	\$ 428,480	\$ 749,840
	Total Truck Route Net Cost Reduction (Increase)	\$ -	\$ (53,560.00)	\$ (53,560.00)	\$ 267,800.00	\$ (53,560.00)
	Average Number of Deposit Collections					
	Cost for Curbside Recycling (Not including staff)	\$ 365,550.00	\$ 365,550.00	\$ 365,550.00	\$ -	\$ 365,550.00
	Total Misc Items Net Cost Reduction (Increase)	\$ -	\$ (53,560.00)	\$ (53,560.00)	\$ 267,800.00	\$ (53,560.00)
Store	Yearly Service Cost	\$ 198.24	\$ 198.24	\$ 207.28	\$ 198.24	\$ 198.24
	Store Bought Black Bags Cost Per Bag	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25	\$ 0.25
	Estimated # of Yearly Store Bought Black Bags	54	26	7.8	78	78
	Yearly Customer Store Bought Black Bag Cost	\$ 13.50	\$ 6.50	\$ 1.95	\$ 19.50	\$ 19.50

	Description	Scenario 3b	Scenario 4a	Scenario 4b
One-time Implementation Costs	Roll Carts - Recycling (72,000 at \$55 each)	\$ -	\$ 3,960,000.00	\$ 3,960,000.00
	Additional 7% change from quotes	\$ -	\$ 780,000.00	\$ 780,000.00
	Total Roll Cart One-Time Costs	\$ -	\$ 12,000,000.00	\$ 12,000,000.00
	Voucher Program Proposal One-Time Costs			
	Software	\$ -	\$ -	\$ -
	Printer	\$ -	\$ -	\$ -
	Total Voucher One-Time Costs			
	Total One-Time Costs	\$ -	\$ (12,000,000.00)	\$ (12,000,000.00)
Misc Items	Average Truck Route Weekly Operating Cost	\$ 1,030.00	\$ 1,030.00	\$ 1,030.00
	Weekly Truck Routes Ran Per Year	728	728	728
	Estimated Total Cost	\$ 749,840	\$ 749,840	
	Total Truck Route Net Cost Reduction (Increase)	\$ (53,560.00)	\$ (53,560.00)	\$ 696,280.00
	Average Number of Deposit Collections			
	Cost for Curbside Recycling (Not including staff)	\$ 365,550.00		
	Total Misc Items Net Cost Reduction (Increase)	\$ (53,560.00)	\$ (53,560.00)	\$ 696,280.00
Start	Yearly Service Cost	\$ 198.24	\$ 198.24	\$ 198.24
	Store Bought Black Bags Cost Per Bag	\$ 0.25	\$ 0.25	\$ 0.25
	Estimated # of Yearly Store Bought Black Bags	78	78	78
	Yearly Customer Store Bought Black Bag Cost	\$ 19.50	\$ 19.50	\$ 19.50

	Description	Scenario 3b	Scenario 4a	Scenario 4b
Customer Cost	Yearly Customer City Bought Black Bag Cost	\$ -	\$ -	\$ -
	Store Bought Kitchen Bags Cost Per Bag	\$ 0.25	\$ 0.25	\$ 0.25
	Estimated # of Yearly Store Bought Kitchen Bags			
	Yearly Customer Store Bought Kitchen Bag Cost	\$ -	\$ -	\$ -
	Average Yearly Cost Per Customer for Bulky Items	\$ 1.28	\$ -	\$ -
	Total Estimated Annual Cost to the Customer	\$ 219.02	\$ 217.74	\$ 217.74
	Total Net Customer Cost Reduction (Increase)	\$ (7.28)	\$ (6.00)	\$ (6.00)