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NEWS RELEASE

REPORT: MUNICIPAL TAXPAYERS COULD SAVE TENS OF MILLIONS IF STATE'S "BOTTLE BILL" WAS MODERNIZED

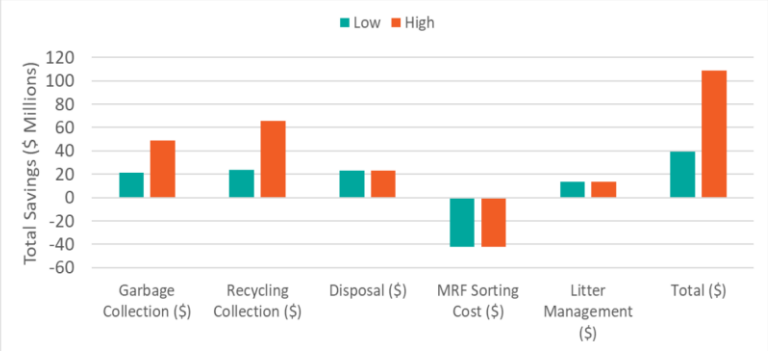
Eunomia Report Estimates Annual Municipal Savings of $39.5 Million to $108.6 Million

GROUPS URGE STATE LAWMAKERS TO APPROVE THE "BIGGER, BETTER, BOTTLE BILL" TO SAVE MONEY, REDUCE LITTER, AND HELP CURB NEW YORK'S GROWING TRASH CRISIS

New York's local governments could save tens of millions of dollars if lawmakers approved legislation to modernize the state's "Bottle Bill." That's according to a new report released by a coalition of environmental, civic, labor and business organizations. The report, produced by the think tank Eunomia, found that the state's local governments could save as much as $108 million if lawmakers approved the "Bigger Better Bottle Bill," legislation designed to modernize the four-decade-old law. The state's Bottle Bill is the law that requires a nickel deposit for certain beverage containers and is redeemed when the consumer brings the container back to the store.

According to the report, New York municipal governments could *save* at least nearly $40 million and as much as $108.6 million if the "Bigger Better Bottle Bill" is approved.

Figure 1: Summary of Savings New York State Municipal Collections Under 90% DRS Scenario



The report examined *six* localities to offer examples of specific savings. The report found that:

- **New York City** could see *savings* between $34.9 million and $80 million per year in municipal collection costs;
- The lower Hudson Valley suburban town of **Clarkstown** could see *savings* between $70k and $200k per year in municipal collection costs;
- The town of **Riverhead** in a rural section of Long Island could see savings between $30k and $110k per year in municipal collection costs;
- The small upstate city of **Troy** could see *savings* between $40k and $70k per year in municipal collection costs;
- The city of **Syracuse** could see *savings* between $90k to $190k per year in municipal collection costs; and,
- The city of **Buffalo** could see *savings* between $200k to $250k per year in municipal collection costs.

The report also found that

- "The modernized DRS [Deposit Return System] would lead to an additional 5.5 billion beverage containers recycled and **diverted from disposal** (e.g., landfill, incineration) or littered annually'";
- "The modernized DRS would **reduce greenhouse gas emission**s in New York State by 358 thousand metric tons of CO_2 equivalent annually. This is equivalent to removing 83,500 gasoline-power passenger vehicles from the road per year"; and,
- "The modernized DRS would lead to an approximate 34% **litter reductio**n for beverage containers across New York state."

The groups also referenced the state Department of Conservation's Solid Waste Management Plan which estimated that New York will reach its landfill "capacity life" in around 20 years (p. 20). The DEC called for a policy push toward a "circular economy." The state's Bottle Bill is an existing, successful example of that approach. *In fact, the DEC recommended that the state "Support proposals, such as modernization and expansion of the Bottle Bill"* (p.37).

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New York State Case Study – Expanded Bottle Bill Impact on Municipal Collections

Prepared April 2025

Report For

Reloop Platform

Project Team

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1.0 Introduction

This one-pager discusses the impacts to key stakeholders that a 90% return rate, best in class deposit return system could have in New York State.

2.0 Impact on MRFs

This section evaluates the impact of an improved deposit return system (DRS) on Material Recovery Facilities (MRFs) in New York State. New York currently has a beverage container recycling rate of 66% which could improve to 91% under a modernized DRS. This improvement could potentially shift material away from the curbside MRF stream and into the deposit return stream. This shift of material can impact the revenue for MRFs in two ways:

1) Lower material throughput would lead to reduced tipping fee revenue if the fee per ton remains the same.

2) Aluminum cans and PET bottles have positive material revenue when sold as commodities from MRFs. If they were to shift away from the MRF stream, the MRF could see lower material sales. Additionally, PET and aluminum bales could see lower material revenue per ton as beverage containers are removed.

Table 1 below shows the combined impact of statewide MRF revenues from a 90% deposit scenario, assuming the MRF does not yet raise tipping fees to cover lower revenues.

Table 1: Annual Revenue Impact on MRFs in New York State ($ Millions)

Costs in $M	Current Value	Loss under 90% DRS Return Rate	Total Future Revenue
MRF Tipping Fee Revenue	148.79	-15.22	133.57
Total MRF Material Revenue	1,325.57	-42.21	1,283.36
Loss From Fewer Tons but Same Bale Value		-33.23	
Additional Loss From lower Bale Value		-8.98	
Total	**1,474.36**	**-57.43**	**1,416.93**

At baseline, MRFs have a total estimated revenue of $1.474 billion. If MRFs were to keep their tipping fees constant under the 90% DRS return rate scenario, they would see an estimated revenue loss of $57.43 million dollars. This would result in a future total revenue of $1.417 billion, a total decrease of 4%. Tipping fee losses would amount to $15.22 million, while material revenue losses would equal $42.21 million. In order to avoid revenue losses under the 90% scenario, MRFs would have to raise tipping fees by an average of $38 per ton, from $90 per ton to $128 per ton.

This modelling does not assume, however, that there is additional compensation for MRFs on an annual basis within the deposit return system. Under the expanded bottle bill, there could be opportunity for MRFs to take advantage of the deposit bearing containers going through their streams to capture some of the 10-cent value of the containers.

3.0 Municipal Cost Changes

A deposit return system has the potential to decrease the cost of municipal waste collections by reducing the tonnage of material collected through those programs, in turn reducing the resource and tipping fees needed for municipal collections. Ultimately, municipal collections are paid by ratepayers (often households). Table 2 and Table 3 show both the potential savings for municipal collections, as well as the annual savings per household, by displaying the costs under the current baseline system. Table 2 shows the low estimated savings value, while Table 3 shows the high estimated savings value. Costs are calculated by estimating savings associated with reducing the number of collections vehicles, tipping fees, and support staff needed for a municipal collection program when less material is collected. High and low values for savings are based on the variation a municipal collection program can have when determining the number of vehicles, resourcing support, fuel costs and administration which can have high and low values. These costs are then compared with the current cost of waste collection in New York State.

Table 2: Impact of 90% DRS on Municipal Collection Costs – Low Savings Value

Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$1,730.57	$36.84	$21.25	$242.79	$5.17	$2.98
Recycling Collection ($)	$608.50	$70.07	$23.57	$85.37	$9.83	$3.31
Disposal ($)	$787.30	$16.76	$23.15	$110.45	$2.35	$3.25
MRF Sorting Cost ($)	$148.83	$17.14	-$42.16	$20.88	$2.40	-$5.92
Litter Management ($)	$17.36	$17.36	$13.67	$2.44	$2.44	$1.92
Total Cost ($)	**$3,292.56**	**$158.17**	**$39.48**	**$461.92**	**$22.19**	**$5.54**

Table 3: Impact of 90% DRS on Municipal Collection Costs – High Savings Value

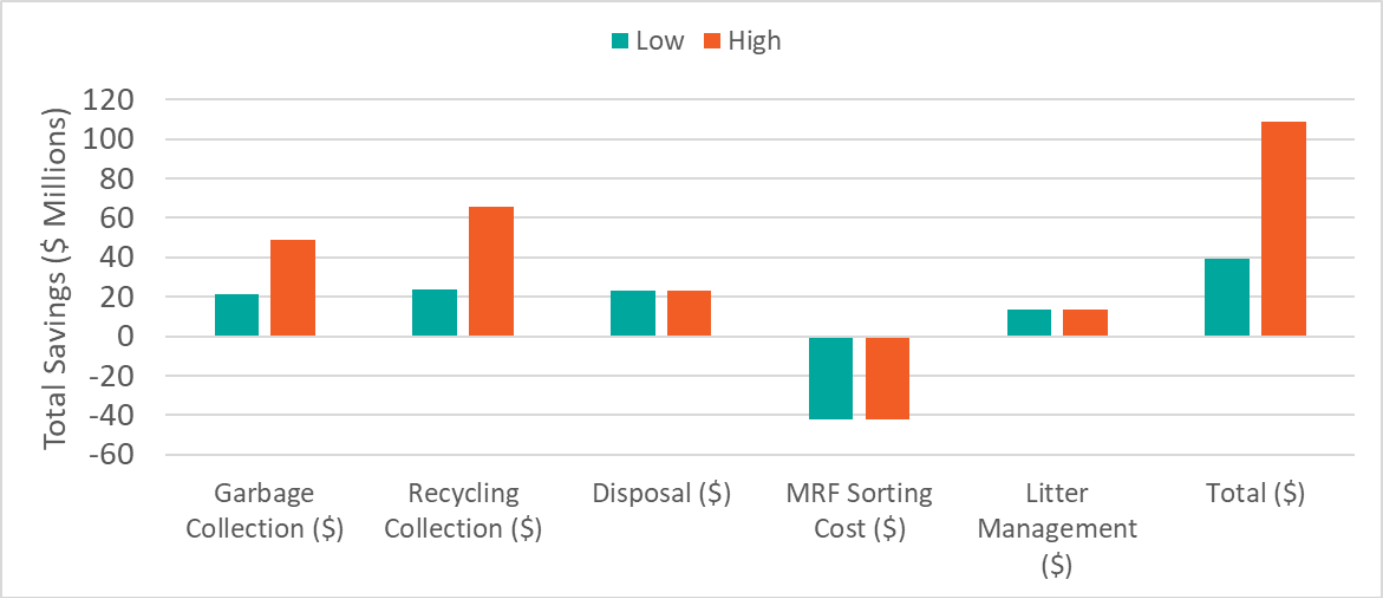
Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$1,730.57	$36.84	$48.57	$242.79	$5.17	$6.81
Recycling Collection ($)	$608.50	$70.07	$65.34	$85.37	$9.83	$9.17
Disposal ($)	$787.30	$16.76	$23.15	$110.45	$2.35	$3.25
MRF Sorting Cost ($)	$148.83	$17.14	-$42.16	$20.88	$2.40	-$5.92
Litter Management ($)	$17.36	$17.36	$13.67	$2.44	$2.44	$1.92
Total Cost ($)	**$3,292.56**	**$158.17**	**$108.56**	**$461.92**	**$22.19**	**$15.23**

New York state could see savings between $39.5 million and $108.6 million per year in municipal collection costs, while households could save between $5.5 and $15.2 per year. Savings are realized for garbage collection, recycling collection, disposal tipping fees and litter management. There is an increase in costs for sorting as MRFs are assumed to raise tipping fees to cover the revenue losses discussed in Section 2.0.

4.0 Summary

A graphical summary of the cost impacts to municipalities is shown in Figure 1 below. As seen in the figure, garbage collection, recycling collection, disposal costs and litter management are all positive savings, while MRF tipping fees are a budget to the system. The total system sees savings.

Figure 1: Summary of Savings New York State Municipal Collections Under 90% DRS Scenario



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New York City Case Study – Expanded Bottle Bill Impact on Municipal Collections

Prepared April 2025

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1.0 Introduction

This brief discusses the estimated impacts to key stakeholders that a 90% deposit return rate in New York City would produce. The brief discusses the impact on Material Recovery Facilities (MRFs) and on municipal collection systems.

2.0 Impact on MRFs

New York City's curbside program sends it's mixed glass and plastic recycling (MGP) stream to the Sunset Park MRF operated by Balcones. Balcones would not supply a tipping fee estimate for 2025, however in previous years the tipping fee per ton was stated at around $80/ton. Under a 90% deposit return program, material could potentially shift away from the curbside MRF stream and into the deposit return stream. This can impact the revenue for MRFs in two ways:

1) Lower material throughput would lead to reduced tipping fee revenue if the fee per ton remains the same.

2) Aluminum cans and PET bottles have positive material revenue when sold as commodities from MRFs. If they were to shift away from the MRF stream, the MRF could see lower material sales. Additionally, PET and aluminum bales could see lower material revenue per ton as beverage containers are removed.

The table below shows the impact on the MRF from a 90% deposit scenario, assuming the MRF does not yet raise tipping fees to cover lower revenues.

Table 1: Revenue Impact on MRFs in New York City

Costs in $M	Current Value	Loss under 90% DRS Return Rate Scenario	Total Future Revenue under 90% DRS Return Rate Scenario
MRF Tipping Fee	20.55	-6.96	13.59
Total MRF Material Revenue	38.87	-13.93	24.94
Loss From Fewer Tons but Same Bale Value		-9.72	
Additional Loss from Lower Bale Value		-4.21	
Total	**59.41**	**-20.89**	**38.53**

Absent lowering tipping fees, MRFs could see their revenue decrease from $59.31 million to $38.53 million. The total loss of $20.89 million is split between lower tipping fees (-$6.96 million) and material revenue loss (-$13.93 million). If the MRFs were to raise their tipping fees by $120 per ton, it would cover all the losses from the lower throughput.

This modelling does not assume, however, that there is additional compensation for MRFs on an annual basis within the deposit return system. Under the expanded bottle bill, there could be opportunity for MRFs to take advantage of the deposit bearing containers going through their streams to capture some of the 10-cent value of the containers.

3.0 Municipal Cost Changes

A deposit return system has the potential to decrease the cost of residential municipal waste collections by reducing the tonnage of material collected through those programs, in turn reducing the resource and tipping fees needed for municipal collections. Ultimately, municipal collections are paid by ratepayers (often households). Table 2 and Table 3 shows both the potential savings for municipal collections, as well as the annual savings per household, by displaying the costs under the current baseline system. Table 2 shows the low estimated savings value, while Table 3 shows the high estimated savings value. Costs are calculated by estimating savings associated with reducing the number of collections vehicles, tipping fees, and support staff needed for a municipal collection program when less material is collected. High and low values for savings are based on the variation a municipal collection program can have when determining the number of vehicles, resourcing support, fuel costs and administration which can have high and low values. These savings are then compared with the current cost of waste collection for New York City.

Table 2: Impact of 90% DRS on Municipal Collection Costs – Low Savings Value

Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$842.41	$49.34	$13.76	$265.99	$15.58	$4.35
Recycling Collection ($)	$175.84	$35.35	$8.55	$55.52	$11.16	$2.70
Disposal ($)	$424.01	$24.83	$17.54	$133.88	$7.84	$5.54
MRF Sorting Cost ($)	$20.59	$4.14	-$13.89	$6.50	$1.31	-$4.39
Litter Management ($)	$11.32	$11.32	$8.92	$3.58	$3.58	$2.82
Total Cost ($)	**$1,474.17**	**$124.98**	**$34.88**	**$465.47**	**$39.46**	**$11.01**

Table 3: Impact of 90% DRS on Municipal Collection Costs - High Savings Value

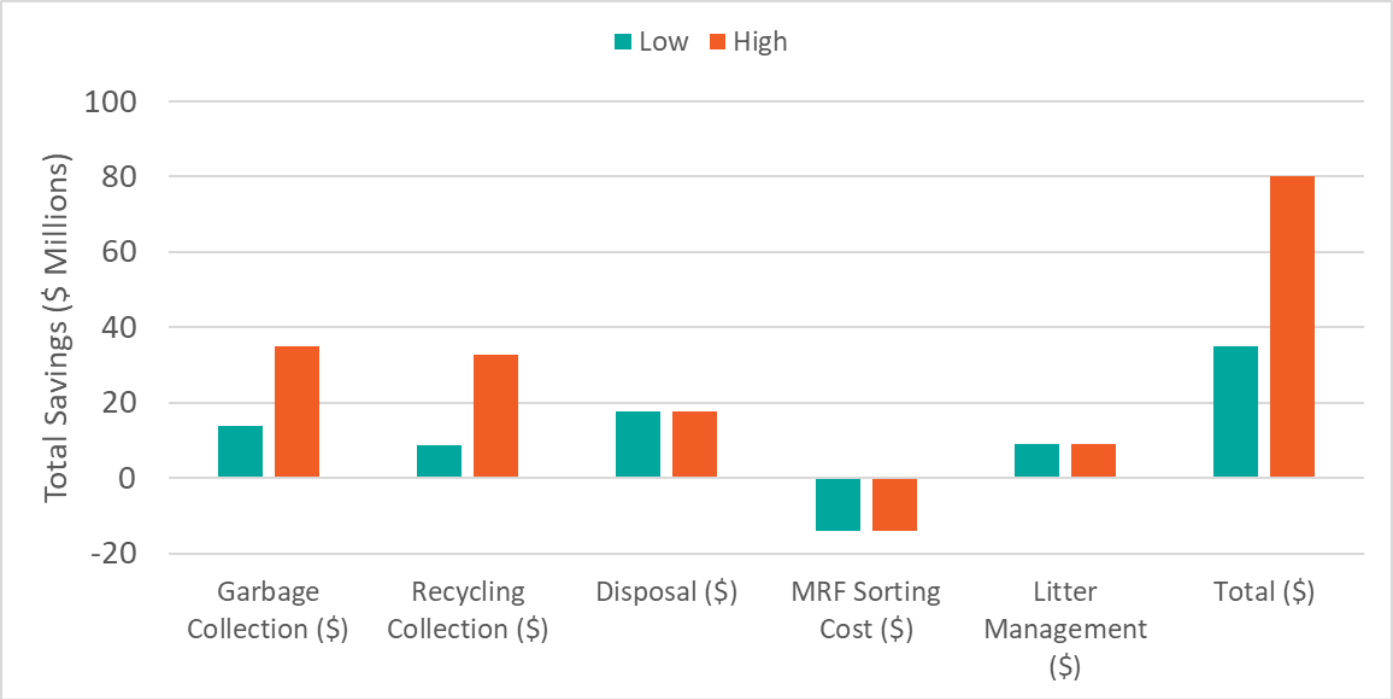
Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$842.41	$49.34	$34.85	$265.99	$15.58	$11.00
Recycling Collection ($)	$175.84	$35.35	$32.61	$55.52	$11.16	$10.30
Disposal ($)	$424.01	$24.83	$17.54	$133.88	$7.84	$5.54
MRF Sorting Cost ($)	$20.59	$4.14	-$13.89	$6.50	$1.31	-$4.39
Litter Management ($)	$11.32	$11.32	$8.92	$3.58	$3.58	$2.82
Total Cost ($)	**$1,474.17**	**$124.98**	**$80.03**	**$465.47**	**$39.46**	**$25.27**

New York City could see savings between $34.9 million and $80 million per year in municipal collection costs, while households could save between $11.0 and $25.3 per year. Savings are realized for garbage collection, recycling collection, disposal tipping fees and litter management. There is an increase in costs for sorting as MRFs are assumed to raise tipping fees to cover the revenue losses discussed in Section 2.0.

4.0 Summary

A graphical summary of the cost impacts to municipalities is shown in Figure 1 below. As seen in the figure, garbage collection, recycling collection, disposal costs and litter management are all positive savings, while MRF tipping fees are a budget to the system. The total system sees savings.

Figure 1: Summary of Savings to New York City Under 90% DRS Scenario



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Three Municipality Case Study – Expanded Bottle Bill Impact on Municipal Collections

Prepared April 2025

Report For

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1.0 Introduction

This one pager describes the impacts to key stakeholders of a 90% DRS return rate in New York State to three different municipalities:

1) Clarkstown, New York (Suburban town)

2) Troy, New York (Small urban town)

3) Riverhead, New York (Rural area)

The brief shows the impacts to Material Recovery Facilities (MRFs) first, followed by municipalities, and lastly an overall summary.

2.0 Impact on MRFs

This section evaluates the impact of an improved deposit return system (DRS) on Material Recovery Facilities (MRFs) in three municipalities In New York State. Under a 90% deposit return program, more material could potentially shift away from the curbside MRF stream in these municipalities and into the deposit return stream. This shift of material can impact the revenue for MRFs in two ways:

1) Lower material throughput would lead to reduced tipping fee revenue if the fee per ton remains the same.

2) Aluminum cans and PET bottles have positive material revenue when sold as commodities from MRFs. If they were to shift away from the MRF stream, the MRF could see lower material sales. PET and aluminum bales could see lower material revenue per ton as beverage containers are removed.

This section shows the impacts to MRFs from three different municipalities in New York.

2.1 Clarkstown, NY

Table 1 below shows the impact on the MRF serving Clarkstown, NY from a 90% deposit scenario, assuming the MRF does not yet raise tipping fees to cover lower revenues.

Table 1: Annual Revenue Impact to MRF Serving Clarkstown, NY ($ Millions)

Costs in $M	Current Value	Loss under 90% DRS Scenario	Total Future Revenue under 90% DRS Scenario
MRF Tipping Fee	0.65	-0.04	0.61
Total MRF Material Revenue	6.56	-0.14	6.42
Loss From Fewer Tons but Same Bale Value		*-0.12*	
Additional Loss From lower Bale Value		*-0.02*	
Total	**7.22**	**-0.19**	**7.03**

At baseline, Clarkstown produces $7.22 million in revenue for the MRF it uses. This revenue could decrease by $190k under a 90% DRS scenario, assuming the MRF dos not-raise tipping fees. The municipality would therefore produce $7.03 million in revenue for the MRF. $40k in revenue losses would come from decreased tipping fees, while $140k would come from material revenue losses. To avoid losses, the MRF would have to raise its tipping fees by $27 per ton, from $90 to $117 per ton.

2.2 Troy, NY

Table 2 below shows the impact on the MRF serving Troy, NY from a 90% deposit scenario, assuming the MRF does not yet raise tipping fees to cover lower revenues.

Table 2: Annual Revenue Impact to MRF Serving Troy, NY ($ Millions)

Costs in $M	Current Value	Loss under 90% DRS Scenario	Total Future Revenue under 90% DRS Scenario
MRF Tipping Fee	0.33	-0.02	0.31
Total MRF Material Revenue	3.29	-0.07	3.22
Loss From Fewer Tons but Same Bale Value		*-0.06*	
Additional Loss From lower Bale Value		*-0.01*	
Total	**3.62**	**-0.09**	**3.53**

At baseline, Clarkstown produces $3.63 million in revenue for the MRF it uses. This revenue could decrease by $90k under a 90% DRS scenario, assuming the MRF dos not-raise tipping fees. The municipality would therefore produce $3.53 million in revenue for the MRF. $20k in revenue losses would come from decreased tipping fees, while $70k would come from material revenue losses. To avoid losses, the MRF would have to raise its tipping fees by $27 per ton, from $90 to $117 per ton.

2.3 Riverhead, NY

Table 3 below shows the impact on the MRF serving Riverhead, NY from a 90% deposit scenario, assuming the MRF does not yet raise tipping fees to cover lower revenues.

Table 3: Annual Revenue Impact to MRF Serving Riverhead, NY ($ Millions)

Costs in $M	Current Value	Loss under 90% DRS Scenario	Total Future Revenue under 90% DRS Scenario
MRF Tipping Fee	0.22	-0.01	0.21
Total MRF Material Revenue	2.22	-0.05	2.17
Loss From Fewer Tons but Same Bale Value		*-0.04*	
Additional Loss From lower Bale Value		*-0.01*	

Costs in $M	Current Value	Loss under 90% DRS Scenario	Total Future Revenue under 90% DRS Scenario
Total	**2.44**	**-0.06**	**2.38**

At baseline, Riverhead produces $2.44 million in revenue for the MRF it uses. This revenue could decrease by $60k under a 90% DRS scenario, assuming the MRF dos not-raise tipping fees. The municipality would therefore produce $2.38 million in revenue for the MRF. $10k in revenue losses would come from decreased tipping fees, while $50k would come from material revenue losses. To avoid losses, the MRF would have to raise its tipping fees by $27 per ton, from $90 to $117 per ton.

This modelling does not assume, however, that there is additional compensation for MRFs on an annual basis within the deposit return system. Under the expanded bottle bill, there could be opportunity for MRFs to take advantage of the deposit bearing containers going through their streams to capture some of the 10-cent value of the containers.

3.0 Municipal Cost changes

A deposit return system has the potential to decrease the cost of residential municipal waste collections by reducing the tonnage of material collected through those programs, in turn reducing the resource and tipping fees needed for municipal collections. Ultimately, municipal collections are paid by ratepayers (often households). This section will describe the cost changes to municipalities based on a 90% DRS return rate scenario. The section will describe each of the three municipalities separately.

Costs are calculated by estimating savings associated with reducing the number of collections vehicles, tipping fees, and support staff needed for a municipal collection program when less material is collected. High and low values for savings are based on the variation a municipal collection program can have when determining the number of vehicles, resourcing support, fuel costs and administration which can have high and low values. These costs are then compared with the current cost of waste collection in each of the jurisdictions.

3.1 Clarkstown

Table 4 and Table 5 below shows both the potential savings for municipal collections in Clarkstown, as well as the annual savings per household. The table displays the municipal collection costs under the current baseline system and an estimated range of the costs under a 90% DRS scenario. Table 4 shows the low estimate of cost savings, while Table 5 shows the high estimate of cost savings.

Table 4: Impact of a 90% DRS on Municipal Collection Costs in Clarkstown – Low Savings Value

Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$6.56	$0.14	$0.06	$221.05	$4.71	$1.91
Recycling Collection ($)	$2.23	$0.26	$0.08	$75.11	$8.65	$2.58
Disposal ($)	$2.76	$0.06	$0.04	$92.83	$1.98	$1.43
MRF Sorting Cost ($)	$0.65	$0.08	-$0.14	$22.03	$2.54	-$4.84
Litter Management ($)	$0.05	$0.05	$0.04	$1.54	$1.54	$1.21
Total Cost ($)	**$12.25**	**$0.58**	**$0.07**	**$412.57**	**$19.41**	**$2.30**

Table 5: Impact of a 90% DRS on Municipal Collection Costs in Clarkstown - High Savings Value

Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$6.56	$0.14	$0.10	$221.05	$4.71	$3.41
Recycling Collection ($)	$2.23	$0.26	$0.17	$75.11	$8.65	$5.68
Disposal ($)	$2.76	$0.06	$0.04	$92.83	$1.98	$1.43
MRF Sorting Cost ($)	$0.65	$0.08	-$0.14	$22.03	$2.54	-$4.84
Litter Management ($)	$0.05	$0.05	$0.04	$1.54	$1.54	$1.21
Total Cost ($)	**$12.25**	**$0.58**	**$0.20**	**$412.57**	**$19.41**	**$6.90**

Clarkstown could see savings between $70k and $200k per year in municipal collection costs, while households could save between $2.3 and $6.9 per year. Savings are realized for garbage collection, recycling collection, disposal tipping fees and litter management. There is an increase in costs for sorting as MRFs are assumed to raise tipping fees to cover the revenue losses discussed in Section 2.0

3.2 Troy

Table 6 and Table 7 below shows both the potential savings for municipal collections in Troy, as well as the annual savings per household. The table displays the municipal collection costs under the current baseline system and an estimated range of the costs under a 90% DRS scenario Table 6 shows the low savings estimate while Table 7 shows the high savings value.

Table 6: Impact of a 90% DRS on Municipal Collection Costs in Troy - Low Savings Value

Cost Item		Total Cost ($M)				Cost per Household ($/HH/Year)		
		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)		$2.31	$0.05	$0.03		$135.85	$2.89	$1.96
Recycling Collection ($)		$0.79	$0.09	$0.04		$46.21	$5.32	$2.26
Disposal ($)		$1.38	$0.03	$0.02		$81.29	$1.73	$1.26
MRF Sorting Cost ($)		$0.33	$0.04	-$0.07		$19.29	$2.22	-$4.24
Litter Management ($)		$0.03	$0.03	$0.02		$1.58	$1.58	$1.24
Total Cost ($)		**$4.83**	**$0.23**	**$0.04**		**$284.23**	**$13.75**	**$2.49**

Table 7: Impact of a 90% DRS on Municipal Collection Costs in Troy - High Savings Value

Cost Item		Total Cost ($M)				Cost per Household ($/HH/Year)		
		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)		$2.31	$0.05	$0.04		$135.85	$2.89	$2.10
Recycling Collection ($)		$0.79	$0.09	$0.06		$46.21	$5.32	$3.50
Disposal ($)		$1.38	$0.03	$0.02		$81.29	$1.73	$1.26
MRF Sorting Cost ($)		$0.33	$0.04	-$0.07		$19.29	$2.22	-$4.24
Litter Management ($)		$0.03	$0.03	$0.02		$1.58	$1.58	$1.24
Total Cost ($)		**$4.83**	**$0.23**	**$0.07**		**$284.23**	**$13.75**	**$3.86**

Troy could see savings between $40k and $70k per year in municipal collection costs, while households could save between $2.14 and $3.6 per year. Savings are realized for garbage collection, recycling collection, disposal tipping fees and litter management. There is an increase in costs for sorting as MRFs are assumed to raise tipping fees to cover the revenue losses discussed in Section 2.0

3.3 Riverhead

Table 8 and Table 9 below shows both the potential savings for municipal collections in Riverhead, as well as the annual savings per household. The table displays the municipal collection costs under the current baseline system and an estimated range of the costs under a 90% DRS scenario. Table 8 shows the low estimate for savings while Table 9 shows the high estimated for savings.

Table 8: Impact of a 90% DRS on Municipal Collection Costs in Riverhead – Low Savings Value

Cost Item		Total Cost ($M)				Cost per Household ($/HH/Year)		
		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)		$3.06	$0.07	$0.02		$227.37	$4.84	$1.75
Recycling Collection ($)		$1.04	$0.12	$0.03		$77.19	$8.89	$1.93
Disposal ($)		$0.93	$0.02	$0.01		$69.28	$1.47	$1.07
MRF Sorting Cost ($)		$0.22	$0.03	-$0.05		$16.44	$1.89	-$3.60
Litter Management ($)		$0.02	$0.02	$0.01		$1.41	$1.41	$1.11
Total Cost ($)		**$5.28**	**$0.25**	**$0.03**		**$391.69**	**$18.51**	**$2.25**

Table 9: Impact of a 90% DRS on Municipal Collection Costs in Riverhead - High Savings Value

Cost Item		Total Cost ($M)				Cost per Household ($/HH/Year)		
		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)		$3.06	$0.07	$0.05		$227.37	$4.84	$3.51
Recycling Collection ($)		$1.04	$0.12	$0.08		$77.19	$8.89	$5.84
Disposal ($)		$0.93	$0.02	$0.01		$69.28	$1.47	$1.07
MRF Sorting Cost ($)		$0.22	$0.03	-$0.05		$16.44	$1.89	-$3.60
Litter Management ($)		$0.02	$0.02	$0.01		$1.41	$1.41	$1.11
Total Cost ($)		**$5.28**	**$0.25**	**$0.11**		**$391.69**	**$18.51**	**$7.93**

Riverhead could see savings between $30k and $110k per year in municipal collection costs, while households could save between $1.96 and $7.79 per year. Savings are realized for garbage collection, recycling collection, disposal tipping fees and litter management. There is an increase in costs for sorting as MRFs are assumed to raise tipping fees to cover the revenue losses discussed in Section 2.0.

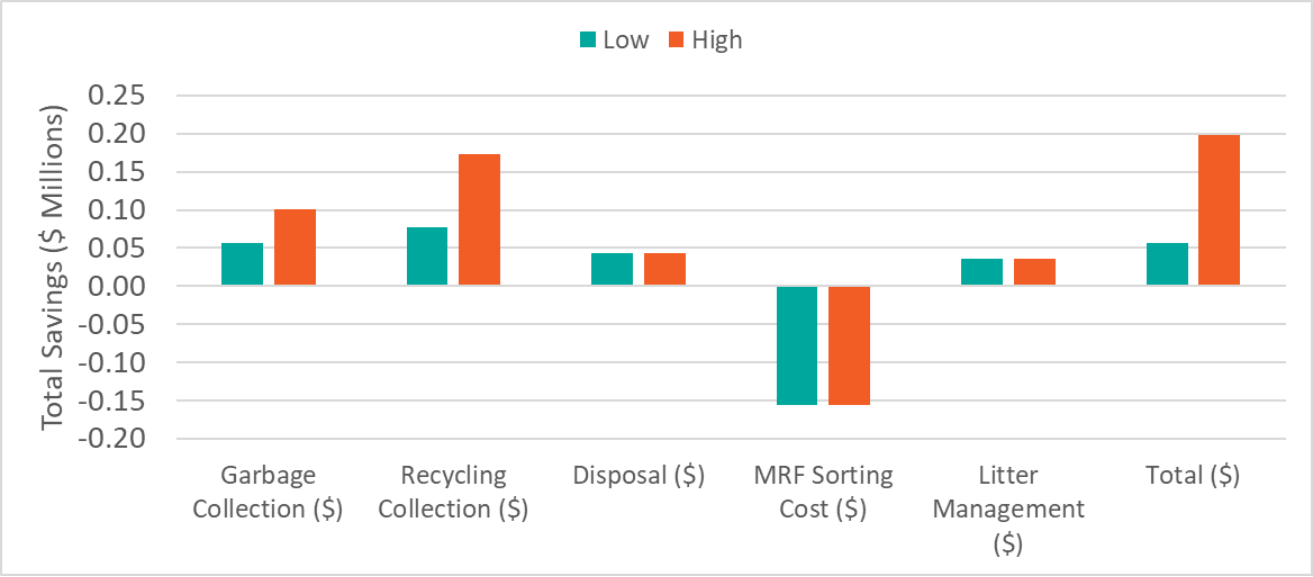
4.0 Summary

This section shows a graphical summary of the municipal cost savings, and increases in MRF sorting costs, as a result of a 90% DRS in New York. Each municipality has its own chart with savings and "budget" for

additional MRF sorting costs. In total, each municipality has a net savings after the 90% return rate under the modernized DRS system.

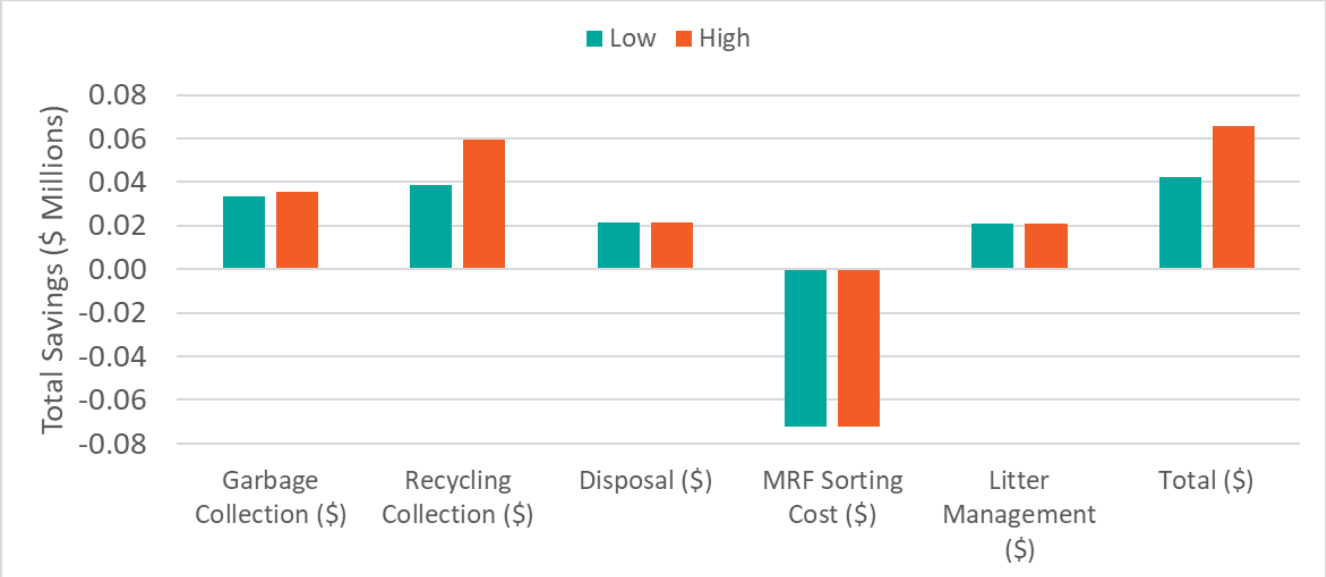
4.1 Clarkstown

Figure 1: Summary of Savings for Clarkstown Under a 90% Return Rate DRS Scenario



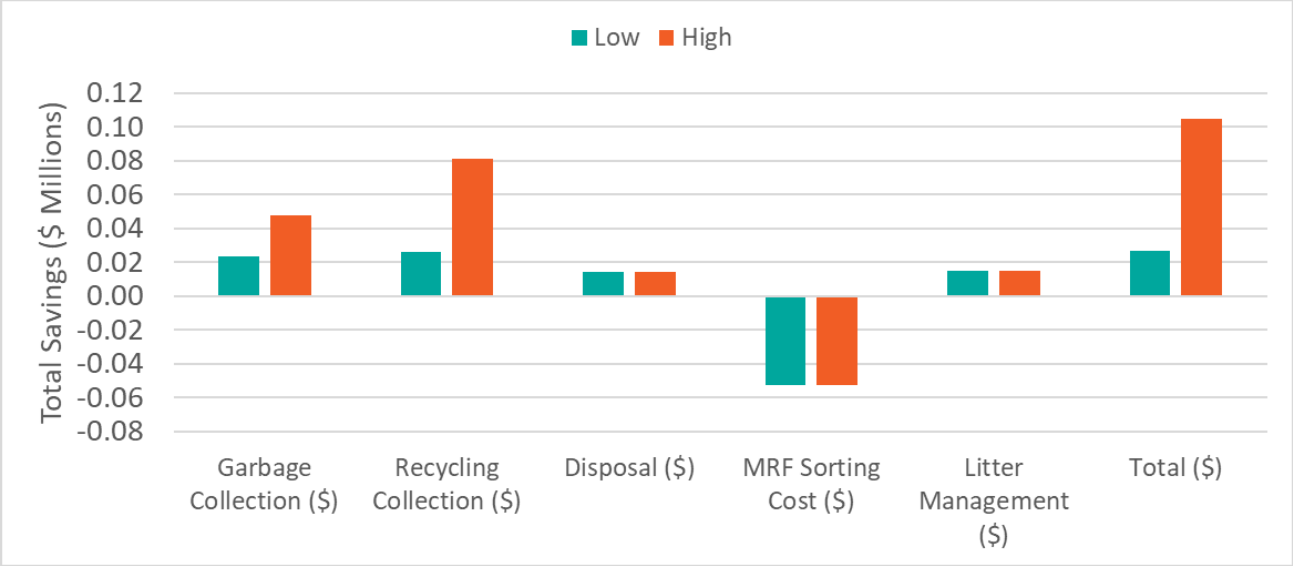
4.2 Troy

Figure 2: Summary of Savings for Troy Under a 90% Return Rate DRS Scenario



4.3 Riverhead

Figure 3: Summary of Savings for Riverhead under a 90% Return Rate DRS Scenario



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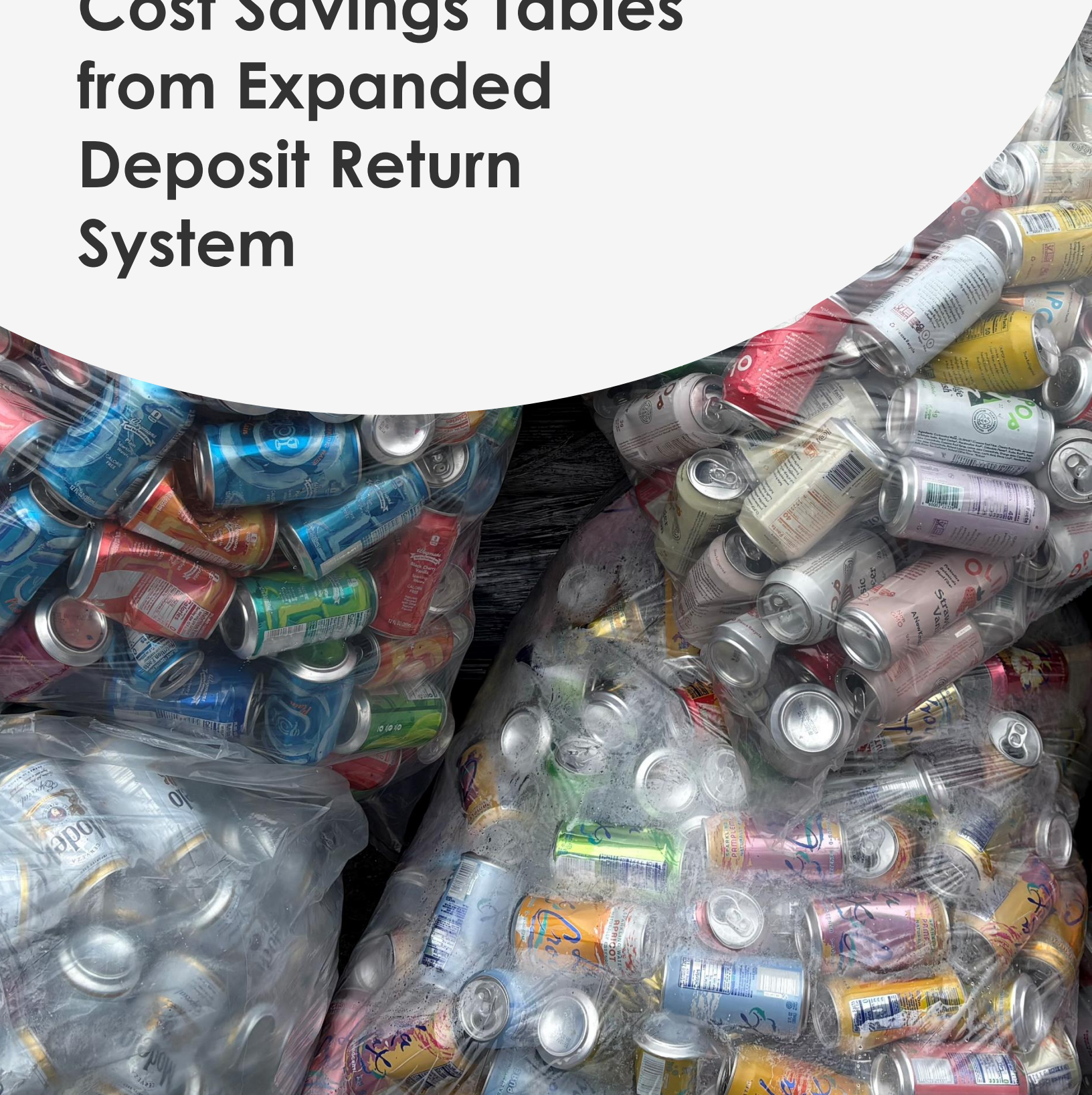
Buffalo and Syracuse Cost Savings Tables from Expanded Deposit Return System



1.0 Impact on MRFs

1.1 Syracuse

Table 1: Annual Revenue Impact to MRF Serving Syracuse, NY ($ millions)

Costs in $M	Current Value	Loss	Total Future Revenue
MRF Tipping Fee	0.79	-0.05	0.74
Total MRF Material Revenue	7.94	-0.17	7.77
Loss From Fewer Tons but Same Bale Value		*-0.15*	
Additional Loss From lower Bale Value		*-0.03*	
Total	**8.73**	**-0.23**	**8.51**

1.2 Buffalo

Table 2: Annual Revenue Impact to MRF Serving Buffalo, NY ($ Millions)

Costs in $M	Current Value	Loss	Total Future Revenue
MRF Tipping Fee	1.45	-0.09	1.36
Total MRF Material Revenue	14.56	-0.32	14.24
Loss From Fewer Tons but Same Bale Value		*-0.27*	
Additional Loss From lower Bale Value		*-0.05*	
Total	**16.01**	**-0.41**	**15.60**

2.0 Municipal Cost Changes

2.1 Syracuse

Table 3: Impact of a 90% DRS on Municipal Collection Costs in Syracuse - Low Savings Value

Cost Item		Total Cost ($M)				Cost per Household ($/HH/Year)		
		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)		$6.41	$0.14	$0.07		$150.86	$3.21	$1.62
Recycling Collection ($)		$2.17	$0.25	$0.09		$51.11	$5.89	$2.18
Disposal ($)		$3.34	$0.07	$0.05		$78.48	$1.67	$1.21
MRF Sorting Cost ($)		$0.79	$0.09	-$0.17		$18.63	$2.14	-$4.10
Litter Management ($)		$0.06	$0.06	$0.06		$1.31	$1.31	$1.31
Total Cost ($)		**$12.77**	**$0.60**	**$0.09**		**$300.39**	**$14.22**	**$2.21**

Table 4: Impact of a 90% DRS on Municipal Collection Costs in Syracuse, High Savings Value

Cost Item		Total Cost ($M)				Cost per Household ($/HH/Year)		
		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario		Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)		$6.41	$0.14	$0.10		$150.86	$3.21	$2.33
Recycling Collection ($)		$2.17	$0.25	$0.16		$51.11	$5.89	$3.87
Disposal ($)		$3.34	$0.07	$0.05		$78.48	$1.67	$1.21
MRF Sorting Cost ($)		$0.79	$0.09	-$0.17		$18.63	$2.14	-$4.10
Litter Management ($)		$0.06	$0.06	$0.06		$1.31	$1.31	$1.31
Total Cost ($)		**$12.77**	**$0.60**	**$0.20**		**$300.39**	**$14.22**	**$4.61**

2.2 Buffalo

Table 5: Impact of a 90% DRS on Municipal Collections Costs in Buffalo, Low Savings Value

Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$8.38	$0.18	$0.13	$98.61	$2.10	$1.51
Recycling Collection ($)	$2.84	$0.33	$0.17	$33.41	$3.85	$2.00
Disposal ($)	$8.18	$0.17	$0.13	$96.22	$2.05	$1.49
MRF Sorting Cost ($)	$1.45	$0.17	-$0.32	$17.07	$1.97	-$3.76
Litter Management ($)	$0.10	$0.10	$0.10	$1.22	$1.22	$1.22
Total Cost ($)	**$20.96**	**$0.95**	**$0.21**	**$246.53**	**$11.18**	**$2.46**

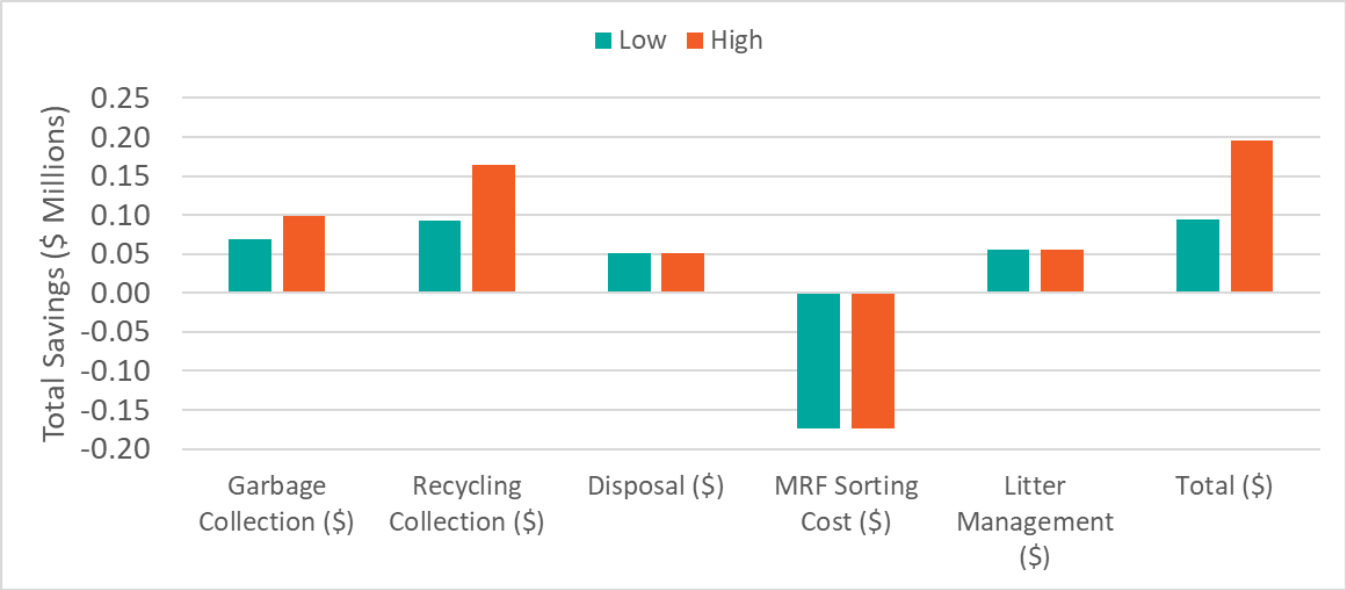
Table 6: Impact of a 90% DRS on Municipal Collections Costs in Bufallo, High Savings Value

Cost Item	Total Cost ($M)			Cost per Household ($/HH/Year)		
	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario	Cost of All Materials	Cost of Beverage Containers at Baseline	Savings under 90 DRS Scenario
Garbage Collection ($)	$8.38	$0.18	$0.13	$98.61	$2.10	$1.52
Recycling Collection ($)	$2.84	$0.33	$0.21	$33.41	$3.85	$2.53
Disposal ($)	$8.18	$0.17	$0.13	$96.22	$2.05	$1.49
MRF Sorting Cost ($)	$1.45	$0.17	-$0.32	$17.07	$1.97	-$3.76
Litter Management ($)	$0.10	$0.10	$0.10	$1.22	$1.22	$1.22
Total Cost ($)	**$20.96**	**$0.95**	**$0.25**	**$246.53**	**$11.18**	**$3.00**

3.0 Summary

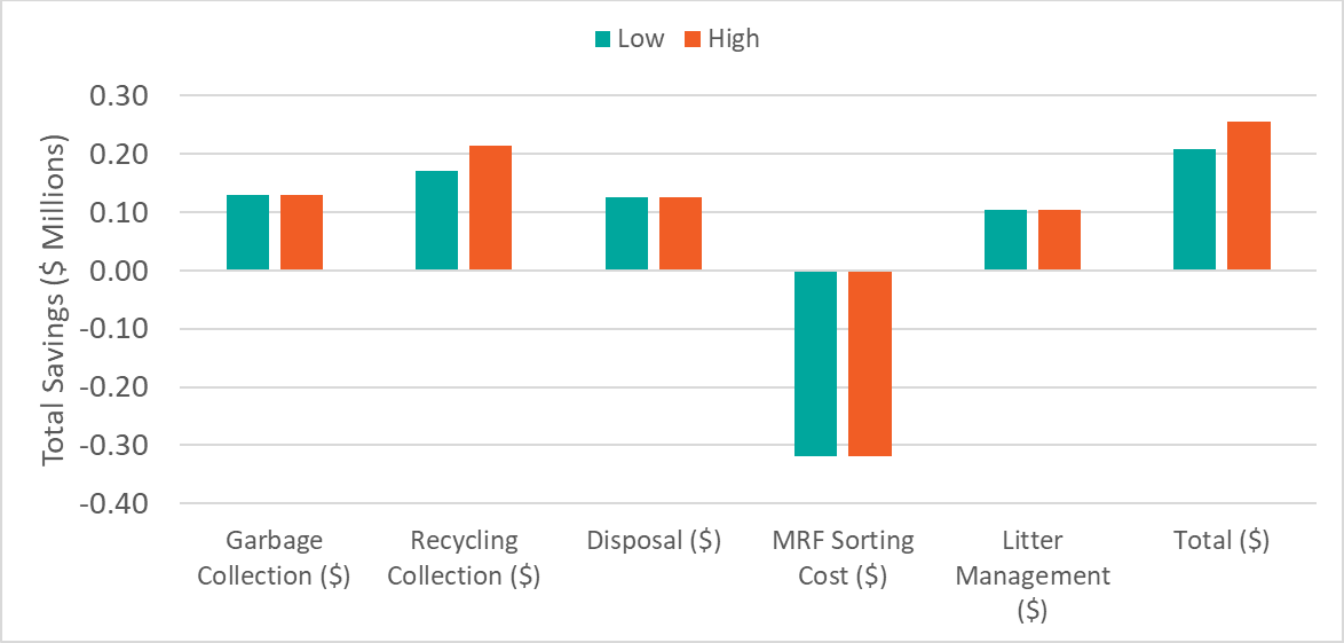
3.1 Syracuse

Figure 1: Summary of Savings for Syracuse under a 90% Return Rate DRS Scenario



3.2 Buffalo

Figure 2: Summary of Savings for Buffalo under a 90% Return Rate DRS Scenario



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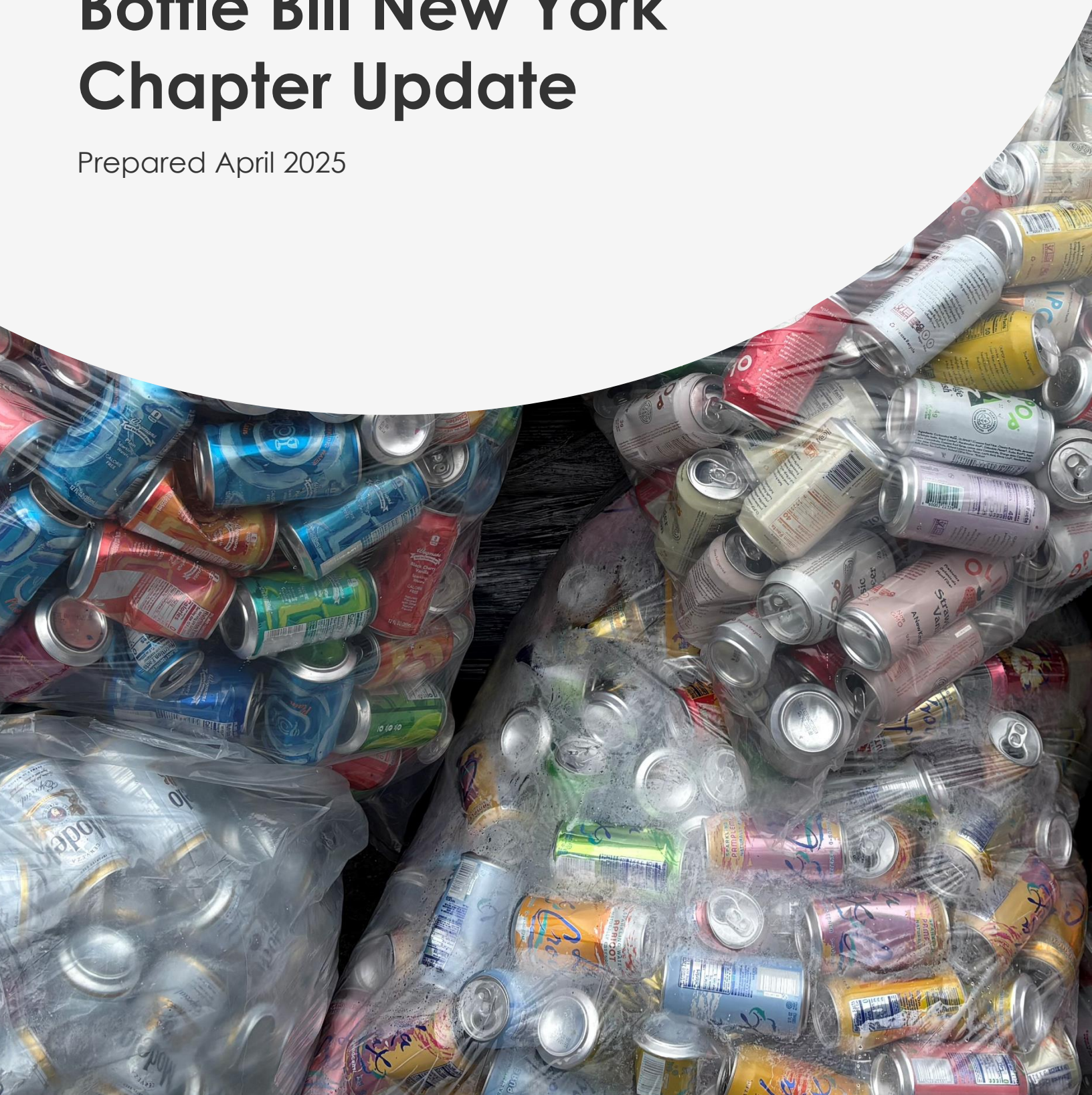
Reimagining the Bottle Bill New York Chapter Update

Prepared April 2025



Report For

Reloop Platform

Project Team

eunomia

Approved By

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1.0 Introduction

This brief contains the data updates for the New York chapter of the 2022 Reimagining the Bottle Bill report (pages 40 and 41 of original report). The brief provides the data point figure, as well as a brief description of the figure.

2.0 Accessible & Accountable

Increase in Recycling Rate. Under a best-in-class DRS program which achieves a 90% return rate, beverage containers are expected to have a recycling rate of **91%.** This is a **25-percentage point** increase over the current recycling rate of beverage containers in New York Sate of **66%.**

Residents per Redemption Point. The best-in-class DRS program is estimated to have over 14,000 redemption points statewide. This relates to a high level of convenience of **1,380 residents per redemption point.** This would potentially make the system even more convenient than Oregon's program, which achieves 87% redemption rates while have 2,100 residents per return point. [1]

Additional Beverage Containers Recycled. The modernized DRS would lead to an additional **5.5 billion** beverage containers recycled and diverted from disposal (e.g., landfill, incineration) or littered annually. This is estimated to be equivalent to three times the total number of beverage containers sold in Connecticut annually.[2]

GHG Equivalent Cars off the Road. The modernized DRS would reduce greenhouse gas emissions in New York State by 358 thousand metric tons of CO2 equivalent annually. This is equivalent to removing **83,500 gasoline-power passenger vehicles** from the road per year.

Overall Litter Reduction. The modernized DRS would lead to an approximate **34% litter reduction for beverage containers** across New York state.

3.0 Industry Financed

GVA (Additional Economic Activity Generated). The modernized bottle bill program would lead to **$962 billion in gross value added (GVA)** to the economy. This would be realized in the state of New York as well as in the surrounding geographies.

Added Net Jobs. The expanded and high performing DRS would lead to an estimated **1,866 additional jobs** compared to today. This accounts for potential lower throughputs at landfills and MRFs. New jobs created include servicing retail RVMs, operators at redemption centers, beverage container collections truck drivers, among other recycling positions.

Revenue Available to State for Reinvestment. As a result of unclaimed deposits in the first three years of the program, there could be **$590M** in revenue available for the state.

[1] 2023-BeverageContainerReturnData.pdf
[2] bottle-bill-data---nov-2024---thru-q3-2024---table.pdf

System Cost per Container. The net cost per container of a DRS system which achieves 90% return rates for New York is estimated to be between **2.5 and 2.9 cents per container.**

4.0 Well Managed and Regulated

Return to Retail Redemption. 84% of the population will have convenient access to retail return. Areas without retail returns will be able to redeem containers at redemption center locations throughout the state.

Allocation for State Agency Oversight. Under the 90% DRS system, there is **$27 million** allocated for agency management and oversight of the program.

NEW YORK STATE WASTE DISPOSAL LOCATIONS[1]

Facility Name	County	Authorization Issue Date	Expiration Date	Capacity (as of 2023)[2]
Albany (City) SWMF	Albany	6/25/2009	6/25/2019	2 years 11 months
Colonie (T) SWMF	Albany	4/5/2018	4/4/2028	2 years 8 months
Hyland Landfill	Allegany	12/1/2015	5/1/2025	3 years 3 months
Broome County Landfill	Broome	3/23/2022	3/22/2032	1 year 7 months
Chautauqua Landfill	Chautauqua	10/7/2015	10/6/2025	10 Years 1 month
Chemung County Sanitary Landfill	Chemung	6/2/2016	6/1/2026	4 years 8 months
Chenango County Landfill	Chenango	7/8/2015	7/7/2025	4 years 3 months
Clinton County Landfill	Clinton	9/16/2022	3/1/2028	5 years
Cortland County West Side Extension	Cortland	11/12/2014	11/11/2024	12 years
Delaware County SWMF	Delaware	8/16/2021	6/4/2021[3]	4 years 9 months
Chaffee Landfill	Erie	5/5/2023	8/8/2027	4 years
Franklin County Regional Landfill	Franklin	8/21/2023	1/28/2029	2 years 8 months
Fulton County Landfill	Fulton	6/13/2022	2/14/2027	12 years
Development Authority of the North Country Landfill	Jefferson	1/26/2018	1/25/2023	2 years 7 months
Madison County West Side Extension LF	Madison	1/29/2018	11/1/2027	1 year 3 months
High Acres Western Expansion Landfill	Monroe	10/4/2013	7/8/2023	1 year 10 months
Mill Seat SLF	Monroe	5/25/2022	5/26/2032	1 year 6 months
Allied Waste Niagara Falls Landfill	Niagara	4/16/2013	11/30/2015	2 years 7 months
Modern Landfill; Inc.	Niagara	10/17/2017	10/28/2023	8 months
Ava Landfill	Oneida	3/19/2019	3/18/2024	13 years 3 months
Ontario County Sanitary Landfill	Ontario	7/22/2014	1/20/2025	bad file[4]
Bristol Hill SLF	Oswego	4/4/2017	4/3/2027	3 years 8 months
Green Ridge RDF	Saratoga	4/19/2022	3/21/2031	2 years 9 months
Seneca Meadows LF	Seneca	10/31/2017	12/31/2025	1 year 5 months
Bath Sanitary Landfill	Steuben	10/10/2019	2/12/2024	2 years
Babylon Southern Ashfill	Suffolk	4/2/2018	4/1/2023	
Brookhaven Waste Management Facility	Suffolk	7/12/2021	7/11/2026	
Resource Recovery Facilities (incinerators)				
Dutchess County Resource Recovery Facility	Dutchess			
Hempstead Resource Recovery Facility	Nassau			
Babylon Resource Recovery Facility	Nassau			
Reworld Niagara I; LLC	Niagara			
Onondaga County Resource Recovery Facility	Onondaga			
Oswego County Energy Recovery Facility	Oswego			
Covanta MacArthur Renewable Energy	Suffolk			
Huntington Resource Recovery Facility	Suffolk			
Wheelabrator Hudson Falls	Washington			
Wheelabrator Westchester L.P.	Westchester			

[1] Source: New York State Department of Environmental Conservation, "Landfill - Solid Waste Management Facilities Map," https://data.ny.gov/Energy-Environment/Landfill-Solid-Waste-Management-Facilities-Map/afg5-7i6u.

[2] Source: New York State Department of Environmental Conservation "Solid Waste Annual Facility Reports" https://extapps.dec.ny.gov/fs/projects/SWMF/Annual%20Reports_Solid%20Waste%20Management%20Facility/Annual%20Reports_by%20Activity%20Type/Landfill/Landfill%20Annual%20Reports%20-%202023/

[3] While these dates do not make sense, they are how the DEC reported them. We assume that there is a typo.

[4] The information did not open.

ORGANIZATIONS IN SUPPORT OF MODERNIZING NEW YORK STATE'S BOTTLE DEPOSIT LAW

350Brooklyn
350NYC
5 Cent Bottle Return LLC
A&A Redemption Center, Inc
AAJA
ACES Aurorans for Climate and Environmental Sense
Adirondack Voters for Change
Albany Presbytery Peacemaking Task Force
Albany UU Green Sanctuary Team
Albion Redemption Center
All Our Energy
Allegany Beverage and Redemption
Alliance for a Green Economy
Amir holdings Inc.
AQS REDEMPTION Inc.
ARC Redemption Inc.
Auburn Bottle Return
Aytzim: Ecological Judaism
Bag O' Nickels Redemption
Best Buds @ SU
Beyond Plastics
Beyond Plastics Brooklyn
Beyond Plastics Queens
Beyond Plastics Schenectady
Beyond Plastics Sullivan County NY
Big Reuse
Bottle Bills
BOTTLE DEPOT
Bottle World Inc.
Bottles For The Brave
BSA Pack 4076
BSA Troop 4085
Buffalo Nickel Redemption
Buffalo Pug and Small Breed Rescue Inc
Buffalos Best Bottles
Burroughs Audubon Nature Club
Buy Local, Grow Local
CAMDEN CANS & BOTTLE RETURN
Camden Cans & Bottle Returns
Campaign for Renewable Energy
Can Stop Redemption Center and Groceries, Inc.
Capital Region Interfaith Creation Care Coalition (CRICCC)
Cash For Cans Express Corp
Catholic Charities Tompkins/Tioga
Caz Cans LLC
Center for Independence of the Disabled, New York (CIDNY)
Center for Justice & Democracy
Center for Urban Environmental Reform
Church Women United in New York State
Citizens Concerned About Plastic Pollution
Clean Air Action Network of Glens Falls
Clean Air Coalition of Western New York
CLYNK
CNY Redemption
Coalition for Outreach, Policy & Education (COPE)
Community Advocates for a Sustainable Environment
Coins to dollars redemption center
ColorBrightonGreen
Columbia County Reduces Waste--Bring Your Own (CCRW--BYO)
Community Beverage
Compost International
Corbitt's Corner
Creating Change Redemption Center
D & p recycle inc.
D.C Redemption
Deep Green Resistance New York City
Deignan Institute for Earth and Spirit at Iona University
Delaware-Otsego Audubon Society
Don't Trash the Catskills
Duanesburg Redemption Bottle & Can Return Inc
Earth & Me
Ecojustice Collaborative
Elmirans & Friends Against Fracking
Elmsford Conservation Advisory Council
Environment Ministry of the Church of St. Francis Xavier in Manhattan
Environmental Action Coalition
Exchange Redemption Inc
Exchange Redemption Inc
Express bottle return
Federated Conservationists of Westchester County
Five Cents Fast
For the Many
For Your Canvenience
Fridays for Future Capital District NY
Frye Road Redemption Center
Fultonville Redemption Center
Glass Packaging Institute
Gliding Stars Inc
Grassroots Environmental Education
Grassroots Gardens WNY
Greece Baptist Sustainability Team
Green Bottle Redemption Center
Green Education and Legal Fund
GREEN LEGACY EXPRESS INC
Green Map System

Green World 168 LLC
GreeningUSA
GreenLatinos
Greenway Bottle and Can
Groundwork Hudson Valley
Hell's Kitchen Neighborhood Association
Hilltop Redemption
Hudson River Sloop Clearwater
Impact 100 NYC
Indivisible New Rochelle
Indivisible Scarsdale
JK Peris, Inc.
Keep Rockland Beautiful
Lakeshore Bottle & Can Return Center
Lampros Solar
League of Women Voters
League of Women Voters of Cortland County
League of Women Voters of New York State
Liberty Beer Depot Inc.
Livonia Redemption Center
Long Island Bottles and Cans Inc
Lowville redemption center
Mammoth Recycling
Mega Beverage Redemption Center Inc
Midstate Recycling LLC
Mohawk Redemption
MOSAIC
Mothers Out Front Dutchess Count
Mothers Out Front Tompkins
Nassau HIking & Outdoor Club
Neighborhood redemption center
New York Climate Action Group
New York Communities for Change (NYCC)
New York Progressive Action Network
New York Public Interest Research Group
New York State PTA
New Yorkers for Clean Power
Nickel and Dime Redemption Center
Nickel City Bottle and Can Redemption Center
Nickelback Bottle and Can Return
North American Climate, Conservation and Environment (NACCE)
North Country Earth Action
North Shore Audubon Society
NYCD16 Indivisible
NYenvironcom
Onondaga Audubon
Operation SPLASH
Orange RAP
Orangutan Outreach
Park Slope Neighbors
PAUSE (People of Albany United for Safe Energy) / 350Albany
People for a Healthy Environment
Peoples Climate Movement - NY
Protect the Adirondacks
Putnam Progressives
Quick & Easy Bottle Return
Quick Stop beverage and grocery
Rabideau Redemption
RAFT (Residents Allied for the Future of Tioga)
REDEEMER BOTTLE AND CAN RETURN CENTER
Residents Allied for the Future of Tioga (RAFT)
RISE (Rockaway Initiative for Sustainability and Equity)
Rivers & Mountains GreenFaith Circle
RLS Management Solutions LLC
Rochester Area Interfaith Climate Action (RAICA)
Roctricity LLC
Roseadon Enterprises, Inc.
Safe Energy Rights Group
SAPHE
Saratoga Friends Meeting
Save the Pine Bush
Save the Sound
SDIPN! (Shut Down Indian Pt. NOW!)
Seatuck Environmental Association
Seneca Lake Guardian
Shelly's redemption center
Shoulette’s Redemption Depot
Shut Down Indian Point NOW!
Sisters of Mercy of the Americas Justice Team
Sisters of St. Dominic of Blauvelt, New York
Skidmore College Environmental Action Club
Smitty’s enterprises Inc.
Solarize Albany
Solidarity Committee of the Capital District
South Beach Civic Association
South Shore Audubon Society
St. Francis Xavier Church in Manhattan
Story of Stuff Project
SUNY New Paltz Environmental Task Force
Superior Redemption
Sure We Can
Surfrider Foundation Eastern Long Island Chapter
Surfrider Foundation New York City
Sustainable Putnam
Sustainable Warwick
Syracuse Cultural Workers
Ten Lives Club
The Environmental Recycling of NY
The Park Church
The Story of Stuff
Third Act Rochester
Third Act Upstate New York
THRIVE (The Healing Resource Institute for Victim Empowerment)
TIAA-Divest! from climate destruction
Tim Malpo
Tompkins County Climate Protection Initiative
Two-Can Dan's Redemption Center

United Climate Action Network
United for Action
United Jewish Federation of Northeast New York
United Muslim Alliance of Albany
United University Professions (UUP)
Upper Green Side
Upper Nyack Green Committee
Upper West Side Recycling
UU Congregation of Binghamton, Green Sanctuary
Valcour Bottle redemption center
Vetrone's Redemption Center
W.I.S.E
WESPAC Foundation, Inc.
Westchester Alliance for Sustainable Solutions (WASS)
Zero Waste Capital District
Zero Waste Ithaca
Zero Waste Warren County