

**Waste Management Enterprise
Fund of the Department of
Solid Waste Management
of Miami-Dade County, Florida**

Agreed-Upon Procedures on
Full Cost Disclosure Report
September 30, 2021



RSM US LLP

Independent Accountant's Report on Applying Agreed-Upon Procedures

The Honorable Mayor and Chairperson
and Members of the Board of County Commissioners
Miami-Dade County, Florida

We have performed the procedures enumerated below, related to the Waste Management Enterprise Fund of the Department of Solid Waste Management (the Department) of Miami-Dade County, Florida, solely to assist management of the Department in demonstrating to the Florida Department of Environmental Protection its compliance with the Full Cost Accounting Rule, Chapter 62-708, of the *Florida Administrative Code* for the fiscal year ended September 30, 2021, with respect to certain records and transactions in the Full Cost Disclosure Report (the Specified Requirements).

The Department's management has agreed to and acknowledged that the procedures performed are appropriate to meet the intended purpose of assisting users in determining whether the entity complied with the Specified Requirements. This report may not be suitable for any other purpose. The procedures performed may not address all the items of interest to a user of this report and may not meet the needs of all users of this report and, as such, users are responsible for determining whether the procedures performed are appropriate for their purposes.

The procedures and associated findings, if any, are summarized as follows (dollars are in thousands).

We obtained all financial information and related schedules from the Department's Controller Office. Materiality, for the purpose of this report, has been determined to be one thousand dollars and 0.50%:

1. We compared the total cost of \$175,654 from the *Full Cost Disclosure Report* (see page 2 of the full cost report attached) to the sum of operating expenses of \$98,297, plus depreciation expense of \$10,407, plus interest expense of \$608, plus disposal costs of \$66,318 obtained from the Waste Collection System unaudited management prepared Schedule of Revenues, Expenses and Changes in Fund Net Position (see page 6 of the full cost report attached) for the year ended September 30, 2021, adjusted for the following amounts obtained from management's supporting schedules – plus issuance costs of \$24 and found them to be in agreement. No exceptions were noted.
2. We recomputed the "cost per unit serviced" to the *Full Cost Disclosure Report* (see page 2 of the full cost report attached) by dividing the respective Full Cost amount by the Units Serviced (number of households or commercial units, as applicable) as reported in the unaudited Statistical Tables V (Collection System – Customer Statistics) which is included in the Department's September 30, 2021 Annual Comprehensive Financial Report (ACFR). No exceptions were noted. We also recomputed the "cost per ton" to the *Full Cost Disclosure Report* (see page 2 of the full cost report attached) by dividing the respective Full Cost amount by the Tons (residential or commercial, as applicable) as reported in the unaudited Statistical Tables IV A (Collection System – Tonnage by Type) which is included in the Department's September 30, 2021 ACFR. No exceptions were noted.

3. We compared the respective amounts in the “Allocation of Support Costs” columns from the *Full Cost Summary With Allocations* report (see page 3 of the full cost report attached), to the corresponding amounts listed in the *Basis of Allocations for Full Cost Report* (see page 4 of the full cost report attached) and found them to be in agreement. No exceptions noted.
4. Using the *Basis of Allocations for Full Cost Report* (see page 4 of the full cost report attached), we recomputed the allocation amounts and related percentages listed for Garbage, Trash, Interest Expense, Depreciation and Department wide, by multiplying the respective amounts in each of the above category by their corresponding percentages (see page 4 of the full cost report attached). No exceptions were noted that exceeded the defined materiality.
5. We compared the number of units (number of households or commercial units, as applicable) and annual tons (residential or commercial, as applicable) which management obtained from the Department’s information systems as reported in the *Workload Measures Report* (see page 5 of the full cost report attached), to unaudited Statistical Tables IV A and V (Collection System – Tonnage by Type and Collection System – Customer Statistics, respectively) which is included in the Department’s September 30, 2021 ACFR, and found them to be in agreement. No exceptions were noted.
6. We inquired of the Department’s Controller regarding the basis for allocating costs for the *Full Cost Disclosure Reports* and were informed that the methodology used is consistent with that of the prior year.

We were engaged by the Department’s management to perform this agreed-upon procedures engagement and conducted our engagement in accordance with attestation standards established by the American Institute of Certified Public Accountants. We were not engaged to and did not conduct an examination or review engagement, the objective of which would be the expression of an opinion or conclusion, respectively, on the amounts and calculations in the *Full Cost Disclosure Reports* of the Department for the fiscal year ended September 30, 2021. Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

We are required to be independent of the Department and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements related to our agreed-upon procedures engagement.

This report is intended solely for the information and use of the Florida Department of Environmental Protection and management of the Miami-Dade County Department of Solid Waste Management, and is not intended to be, and should not be, used by anyone other than these specified parties.

RSM US LLP

Miami, Florida
September 30, 2022



"Delivering Excellence Every Day"

WASTE MANAGEMENT ENTERPRISE FUND
AN ENTERPRISE FUND OF THE DEPARTMENT OF SOLID WASTE MANAGEMENT
A DEPARTMENT OF MIAMI-DADE COUNTY, FLORIDA
WASTE COLLECTION SYSTEM
FULL COST DISCLOSURE REPORT
FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 2021

RESIDENTIAL SERVICES

		HOUSEHOLDS SERVED	FULL COST PER HOUSEHOLD
GARBAGE & TRASH CURBSIDE PROGRAM			
	COLLECTION	343,713	\$228
	DISPOSAL	343,713	\$133
TRASH & RECYCLING CENTERS (TRASH)			
	COLLECTION	343,713	\$21
	DISPOSAL	343,713	\$33
	TRC - TRANSPORTATION COST	(1) 343,713	\$16
RECYCLING PROGRAMS			
		357,494	\$32
BULKY WASTE & ILLEGAL DUMPING ENFORCEMENT			
		(2) 343,713	\$22
LITTER CONTROL			
		343,713	\$5
RESIDENTIAL COST FOR COMBINED SERVICE AREA			
	COLLECTION		\$249
	DISPOSAL		\$166
	TRC - TRANSPORTATION COST		\$16
	RECYCLING		\$32
	BULKY WASTE & ILLEGAL DUMPING ENFORCEMENT		\$22
	LITTER CONTROL		\$5
	TOTAL		<u>\$490</u>

COMMERCIAL SERVICES

		TOTAL TONS	FULL COST PER TON
GARBAGE & TRASH COLLECTION PROGRAM			
	GARBAGE COLLECTION	9,820	\$115
	GARBAGE DISPOSAL	9,820	\$70
	TRASH COLLECTION	3,951	\$304
	TRASH DISPOSAL	3,951	\$78
	TOTAL		<u>\$567</u>

THE AVERAGE WASTE DISPOSED OF ON A PER HOUSEHOLD BASIS WAS DETERMINED TO BE 2.89 TONS.

(1) SINCE FISCAL YEAR 2018, THESE COSTS WERE TRANSFERRED TO THE DISPOSAL FUND. THE DEPARTMENT HAS DEEMED THAT THESE COSTS RELATE TO THE TRASH & RECYCLING CENTERS (TRCs) REGARDLESS OF THE FUND WHERE THESE COSTS RESIDE. THEREFORE, THESE COSTS HAVE BEEN ALLOCATED TO THE HOUSEHOLD UNIT COST IN THIS PRESENTATION.

(2) THIS PRESENTATION REFLECTS ALL BULKY WASTE ENFORCEMENT & ILLEGAL DUMPING ENFORCEMENT COSTS RESIDING IN THE COLLECTION FUND.

Waste Management Enterprise Fund
 An Enterprise Fund of the Department of Solid Waste Management
 A Department of Miami-Dade County, Florida
 Waste Collection System
 Full Cost Disclosure Report
 09/30/2021

	Full Cost (Final)	Units Served (# households or commercial units as applicable)	Cost Per Unit Served*	Tons (Residential or Commercial as applicable)	Cost Per Ton*
GARBAGE AND TRASH CURBSIDE PROGRAM					
GARBAGE COLLECTION	\$57,934,808	343,713	\$169	929,456	\$62
TRASH COLLECTION	\$20,245,219	343,713	\$59	929,456	\$22
COLLECTION TOTAL	<u>\$78,180,027</u>		<u>\$228</u>		<u>\$84</u>
GARBAGE DISPOSAL	\$36,769,780	343,713	\$107	929,456	\$40
TRASH DISPOSAL	\$9,099,139	343,713	\$26	929,456	\$10
DISPOSAL TOTAL	<u>\$45,868,919</u>		<u>\$133</u>		<u>\$50</u>
TRASH AND RECYCLING CENTERS (TRASH)					
COLLECTION	\$7,070,898	343,713	\$21	929,456	\$8
DISPOSAL	\$11,170,019	343,713	\$33	929,456	\$12
TRC TOTAL	<u>\$18,240,917</u>				
RECYCLING PROGRAMS					
	\$11,544,061	357,494	\$32	64,384	\$179
BULKY WASTE & ILLEGAL DUMPING ENFORCEMENT	\$7,670,186	343,713	\$22	929,456	\$8
LITTER CONTROL	\$1,557,965	343,713	\$5	929,456	\$2
BULKY WASTE & ILLEGAL DUMPING ENFORCEMENT AND LITTER CONTROL TOTAL	<u>\$9,228,151</u>				
RESIDENTIAL COSTS FOR COMBINED SERVICE AREA					
COLLECTION	\$85,250,925	343,713	\$249	929,456	\$92
DISPOSAL	\$57,038,938	343,713	\$166	929,456	\$62
RECYCLING	\$11,544,061	357,494	\$32	64,384	\$179
BULKY WASTE & ILLEGAL DUMPING ENFORCEMENT	\$7,670,186	343,713	\$22	929,456	\$8
LITTER CONTROL	\$1,557,965	343,713	\$5	929,456	\$2
TOTAL	<u>\$163,062,075</u>		<u>\$474</u>		<u>\$343</u>
COMMERCIAL GARBAGE AND TRASH COLLECTION PROGRAM					
GARBAGE COLLECTION	\$1,130,800			9,820	\$115
GARBAGE DISPOSAL	\$683,652			9,820	\$70
TRASH COLLECTION	\$1,201,866			3,951	\$304
TRASH DISPOSAL	\$308,569			3,951	\$78
COMMERCIAL TOTAL	<u>\$3,324,887</u>				<u>\$567</u>
OTHER PROGRAMS					
FEMA	<u>\$9,266,563</u>				
TOTAL COSTS	<u>\$175,653,525</u>				

*The Cost Per Unit Served and Cost Per Ton figures presented herein are rounded.

Waste Management Enterprise Fund
An Enterprise Fund of the Department of Solid Waste Management
A Department of Miami-Dade County, Florida
Waste Collection System
Full Cost Summary With Allocations
09/30/2021

-----Allocation of Support Costs-----							
	Preliminary	Garbage Allocation	Trash Allocation	Interest Allocation	Depreciation Allocation	Dptwide Allocation	Final
GARBAGE AND TRASH CURBSIDE PROGRAM							
GARBAGE COLLECTION	\$42,836,424	\$892,416	\$0	\$351,162	\$6,015,088	\$7,839,718	\$57,934,808
GARBAGE DISPOSAL	\$36,769,780	\$0	\$0	\$0	\$0	\$0	\$36,769,780
TRASH COLLECTION	\$14,597,055	\$0	\$513,529	\$133,745	\$2,290,945	\$2,709,946	\$20,245,219
TRASH DISPOSAL	\$9,099,139	\$0	\$0	\$0	\$0	\$0	\$9,099,139
TRASH AND RECYCLING CENTERS (TRASH)							
COLLECTION	\$5,098,162 (a)	\$0	\$179,365	\$46,714	\$800,121	\$946,536	\$7,070,898
DISPOSAL	\$11,170,019	\$0	\$0	\$0	\$0	\$0	\$11,170,019
RECYCLING PROGRAMS							
	\$9,788,755	\$0	\$0	\$0	\$0	\$1,755,306	\$11,544,061
BULKY WASTE & ILLEGAL DUMPING ENFORCEMENT							
	\$5,530,912	\$0	\$194,566	\$50,673	\$868,080	\$1,025,954	\$7,670,186
FEMA							
	\$7,858,103	\$0	\$0	\$0	\$0	\$1,408,460	\$9,266,563
LITTER CONTROL							
	\$1,123,017	\$0	\$39,488	\$10,284	\$176,095	\$209,081	\$1,557,965
COMMERCIAL GARBAGE AND TRASH COLLECTION PROGRAM							
GARBAGE COLLECTION	\$838,850	\$14,972	\$0	\$6,874	\$117,751	\$152,353	\$1,130,800
GARBAGE DISPOSAL	\$683,652	\$0	\$0	\$0	\$0	\$0	\$683,652
TRASH COLLECTION	\$883,795	\$0	\$10,594	\$8,110	\$138,910	\$160,457	\$1,201,866
TRASH DISPOSAL	\$308,569	\$0	\$0	\$0	\$0	\$0	\$308,569
TOTAL DIRECT COSTS	\$146,586,232	\$907,388	\$937,542	\$607,562	\$10,406,990	\$16,207,811	\$175,653,525
ADMINISTRATIVE SUPPORT							
DEPTWIDE COSTS TO BE ALLOCATED	\$16,207,811	\$0	\$0	\$0	\$0	(\$16,207,811)	\$0
INTEREST COSTS TO BE ALLOCATED	\$607,562	\$0	\$0	(\$607,562)	\$0	\$0	\$0
AMORTIZATION OF BOND PREMIUM TO BE ALLOCATED	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DEPRECIATION TO BE ALLOCATED	\$10,406,990	\$0	\$0	\$0	(\$10,406,990)	\$0	\$0
GARBAGE ADMIN. DIVISION COSTS	\$907,388	(\$907,388)	\$0	\$0	\$0	\$0	\$0
TRASH ADMIN. DIVISION COSTS	\$937,542	\$0	(\$937,542)	\$0	\$0	\$0	\$0
CAPITAL COSTS TO BE ELIMINATED	\$2,980,757	\$0	\$0	\$0	\$0	\$0	\$2,980,757
CAPITAL COST Elimination	(\$2,980,757)	\$0	\$0	\$0	\$0	\$0	(\$2,980,757)
TOTAL COSTS	\$ 175,653,525	\$0	(\$0)	\$0	\$0	\$0	\$175,653,525

(a) In fiscal year 2021, T&R Transportation Cost resides in disposal fund.

Waste Management Enterprise Fund
An Enterprise Fund of the Department of Solid Waste Management
A Department of Miami-Dade County, Florida
Waste Collection System
Basis of Allocations for Full Cost Report
09/30/2021

1. Garbage Administration Division Costs: Administrative costs totaling **\$907,388** in the Garbage Division were allocated between residential and commercial garbage collection activities based on relative tonnage as follows:

	Tonnage	%	Allocation
Residential Garbage Collection	583,900	98.35%	\$892,416
Commercial Garbage Collection	9,820	1.65%	\$14,972
Total Garbage	593,720	100.00%	\$907,388

3. Interest Expense that totaled (a) **\$607,562** was allocated **58.93%** to garbage collection and **41.07%** to trash collection based on the relative tonnages. The allocation within garbage and trash was based on the current year relative direct cost.

	Direct Cost	%	Allocation
Residential Garbage Collection	\$42,836,424	98.08%	\$351,162
Commercial Garbage Collection	\$838,850	1.92%	\$6,874
Total Garbage Direct Cost	\$43,675,274	100.00%	\$358,036
58.93%	Interest	=	\$358,036
	Direct Cost	%	Allocation
Residential Trash-Curbside, Other, TRC	\$26,349,145	96.75%	\$241,416
Commercial Trash Collection	\$883,795	3.25%	\$8,110
Total Trash Direct Cost	\$27,232,940	100.00%	\$249,526
41.07%	Interest	=	\$249,526

4. Depreciation totaling **\$10,406,990** was allocated **58.93%** to garbage collection and **41.07%** to trash collection based on the relative tonnages. The allocation within garbage and trash was based on the current year relative direct cost.

	Direct Cost	%	Allocation
Curbside Garbage Collection	\$42,836,424	98.08%	\$6,015,088
Commercial Garbage Collection	\$838,850	1.92%	\$117,751
Total Garbage Collection Direct Cost	\$43,675,274	100.00%	\$6,132,839
58.93%	Depreciation	=	\$6,132,839
	Direct Cost	%	Allocation
Residential Curbside Trash Collection	\$14,597,055	53.60%	\$2,290,945
Bulky Waste & Illegal Dumping Enforcement	\$5,530,912	20.31%	\$868,080
Litter Control	\$1,123,017	4.12%	\$176,095
Residential Trash-Curbside, Other, TRC Sub-Total	\$21,250,984	78.03%	\$3,335,120
T&R Center Trash Collection	\$5,098,162	18.72%	\$800,121
Commercial Trash Collection	\$883,795	3.25%	\$138,910
Total Trash Collection Direct Cost	\$27,232,941	100.00%	\$4,274,151
41.07%	Depreciation	=	\$4,274,151

2. Trash Administration Division Costs: Administrative costs for Trash Division totaling **\$937,542** were allocated between residential and commercial trash collection activities based on relative tonnage. Within residential, the costs are allocated to Bulky Waste & Illegal Dumping Enforcement and Litter Control. Lot Clearing, Demolition, and Curbside trash are based on the relative direct cost of those activities.

	Residential Tons (a)	%
Residential Tons (a)	345,556	98.87%
Commercial Tons	3,951	1.13%
Total Tons	349,507	100.00%

(a) Including Bulky Waste & Illegal Dumping Enforcement and Litter Control.

	Direct Cost	%	Allocation
Commercial Trash Collection	not applicable		\$10,594
Residential Trash-Curbside	14,597,055	55.40%	\$513,529
Residential Trash-TR Centers	5,098,162	19.35%	\$179,365
Bulky Waste & Illegal Dumping Enforcement	5,530,912	20.99%	\$194,566
Litter Control	1,123,017	4.26%	\$39,488
Lot Clearing (excluded-considered enf.)	0	0.00%	\$0
Demolition	0	0.00%	\$0
Total Residential Direct Cost	26,349,146	100.00%	\$937,542

5. Deptwide indirect cost totaling **\$16,207,811** were allocated to the activities listed below based on the relative direct cost of each activity. For this purpose the direct cost of the garbage and trash divisions includes the allocated costs from the garbage and trash administration units as shown.

	Direct Cost	%	Allocation
Curbside Garbage Collection	\$43,728,840 (1)	48.37%	\$7,839,718
Curbside Trash Collection	\$15,110,584 (1)	16.72%	\$2,709,946
T&R Center Trash Collection	\$5,277,527 (1)	5.84%	\$946,536
Recycling Programs	\$9,788,755	10.83%	\$1,755,306
Bulky Waste & Illegal Dumping Enforcement	\$5,725,478 (1)	6.33%	\$1,025,954
FEMA	\$7,858,103	8.69%	\$1,408,460
Litter Control	\$1,162,505 (1)	1.29%	\$209,081
Commercial Garbage Collection	\$853,822 (1)	0.94%	\$152,353
Commercial Trash Collection	\$894,389 (1)	0.99%	\$160,457
Lot Clearing	\$0	0.00%	\$0
Demolition	\$0	0.00%	\$0
Total	\$90,400,003	100.00%	\$16,207,811

(1) After Garbage/Trash Adm. Allocation to Residential and Commercial.

Waste Management Enterprise Fund
 An Enterprise Fund of the Department of Solid Waste Management
 A Department of Miami-Dade County, Florida
 Workload Measures
 09/30/2021

	Units	Tons Garbage	Tons Trash	Tons Recycling	Tons Total
Residential:					
Household units	338,962				
Residential dumpster units	4,676				
City of Miami Hud Units	75				
Sub-Total		583,900	340,100 (2)		924,000
Illegal Dumping:					
	-		5,246 (5)		5,246
Litter Control:					
	-		210 (6)		210
Total Residential	343,713 (A)	583,900	345,556	-	929,456
Commercial:					
Household/commercial units	3,053				
City of Miami Hud Units	1,113				
Sub-Total	4,166				
Commercial can units	553				
Commercial rollaway units	26				
Sub-Total	579				
Total Commercial	4,745 (B)	9,820	3,951 (3)	-	13,771
Sub-Total		593,720	349,507	-	943,227
Recycling:					
Units in collections service area	338,962				
Units outside service area	50				
Units inside service area w/o garbage service	1,951				
Sub-Total	2,001				
Municipal units	16,531				
Total Recycling	357,494 (C)	-	-	64,384 (4)	64,384
Total		593,720 (1)	349,507	64,384	1,007,611
Percentages:					
Residential:		57.95%	33.75%		
Illegal Dumping:		0.00%	0.52%		
Litter Control:		0.00%	0.02%		
Commercial:		0.98%	0.39%		
Recycling:		0.00%	6.39%		
Totals		58.93%	41.07%	100.00%	

Waste Collection System

Supplemental Schedule of Revenues, Expenses and Changes in Fund Net Position

	For the Fiscal Year Ended September 30, 2021
	<i>(In thousands)</i>
Operating Revenues	
Solid waste collection services	\$ 167,935
Other operating revenues	632
Total Collection Operating Revenues	<u>168,567</u>
Operating Expenses	
Garbage collection	44,583
Trash collection	23,855
Recycling	9,682
Litter control	1,106
Enforcement and environmental compliance	4,206
General and administrative	14,865
Subtotal	<u>98,297</u>
Depreciation	<u>10,407</u>
Total Collection Operating Expenses	<u>108,704</u>
Collection Operating Income	<u>59,863</u>
Non-Operating Revenues (Expenses)	
Interest income	18
Interest expense	(608)
Other income (expense), net:	
Hurricane related grant revenue	1,114
COVID-19 Prevention	7,798
Interfund Transfer	330
Other	425
Total Collection Non-Operating Expense, Net	<u>9,077</u>
Change in Net Position Before Elimination	<u>68,940</u>
Elimination*	<u>(66,318)</u>
Change in Net Position After Elimination	<u>\$ 2,622</u>

* Impact to Net Position by the elimination of tipping fees (in Garbage Collection, Trash Collection and Litter Control expenses above) paid to the Disposal System.



The undersigned, a duly authorized representative of Miami-Dade County, Florida, HEREBY CERTIFIES THAT:

The Miami-Dade County Solid Waste Management Department Full Cost Disclosure Report, a copy of which is attached for the fiscal year ended September 30, 2021 does not, to the best of my knowledge, contain any untrue statements or calculations nor fails to present any material facts which should be included for the purpose of properly informing the public of the full cost of solid waste management services.

IN WITNESS THEREOF, I have hereunto set my hand and seal this 30th day of Sept., 2022.

A handwritten signature in blue ink, appearing to read "Edward Marquez", is written over a horizontal line.

Edward Marquez
Chief Financial Officer/Finance Director
Miami-Dade County